

COMMONWEALTH UNIVERSITIES YEARBOOK 1962

A directory to the universities of
the British Commonwealth and
the handbook of their Association



THE ASSOCIATION OF UNIVERSITIES OF THE BRITISH COMMONWEALTH
36 GORDON SQUARE, LONDON, W.C.1, ENGLAND

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The Association of Universities of the British Commonwealth is a voluntary society whose members are institutions of university standing in the various countries of the Commonwealth. It was founded in 1912 as the Universities Bureau of the British Empire and changed to its present name in 1948; it is incorporated under the Companies Acts of the United Kingdom. The Association is governed by an executive council consisting of a chairman, vice-chairman, hon. treasurer and sixteen members elected annually at a general meeting at which each member university is entitled to be represented by its executive head or his personal deputy. There are at present 123 member institutions.

The headquarters of the Association are situated at No. 36 Gordon Square, London, W.C.1 (tel.: Euston 8572), close to the University of London Senate House and University College. Members of the teaching staff or other officers of any member university are invited, when visiting London, to call at these premises, where there is a common room and facilities for interviews. Overseas visitors are especially requested to register, on or before arrival in the United Kingdom, their names and addresses with the secretary at 36 Gordon Square, to enable enquiries and communications for them to be dealt with. A branch office for Commonwealth Scholarships and Appointments was opened in 1961 at Marlborough House, Pall Mall, London, S.W.1 (tel.: Whitehall 6617).

A full description of the functions of the Association, with its legal constitution and a list of its members and their representatives, will be found in Appendix VII at page 1480.

PREFACE

THIS is the thirty-ninth edition of the *Commonwealth Universities Yearbook*, which was first published in 1914.

The *Yearbook* is compiled to provide annually, in a single volume and in an up-to-date form suitable for quick reference, the essential facts about Commonwealth universities needed by university teachers and administrators, students, and others seeking detailed information about staff, organization, facilities and admission requirements. It is published as a directory to university institutions of good standing in all countries of the Commonwealth and is not restricted to the 123 universities and colleges which comprise the membership of the Association.

In the year preceding the publication of this edition there has been considerable further expansion in the facilities for higher education; new university institutions were established or planned in all the major countries of the Commonwealth. For the first time, entries appear herein for Royal College, Nairobi, and University College, Dar es Salaam (together with a note on the proposed University of East Africa); Kwame Nkrumah University of Science and Technology, Ghana; Pius XII College, Basutoland; Nanyang University, Singapore; the University of Ife, Nigeria; and the University of York, England.

Among the main features of the *Yearbook* are the 'national introductions' which precede the pages for Commonwealth countries with more than one or two universities. Each introduction (written by a leading university figure) is primarily intended as a factual guide for people abroad who wish to obtain a general outline of university education in that particular country before turning to the separate university entries but who will not necessarily be familiar with the basic assumptions of its citizens about that country's educational system. These authoritative essays range over the entire university scene in the country concerned and are set out under carefully selected headings. Among the entirely new items in the 1962 book is an introduction to the pages for Nigeria which has been contributed by Sir Alexander Carr-Saunders, formerly director of the London School of Economics and Political Science. Mr. Colin McDougall, registrar of McGill University, has provided a fresh introduction to the Canadian section; this (in accordance with the editors' general policy of making changes from time to time in the authorship of introductions which have appeared in revised form in several editions) replaces the essay written by the president of Acadia University which appeared first in the 1958 *Yearbook*.

Despite the addition of this new material, the main reason for the eighty-page increase in the length of this book, as compared with its predecessor, is the steady growth of the teaching staffs and academic activities of existing universities.

One of the functions of the *Yearbook* is to provide basic data to assist a student, who proposes to go to a Commonwealth country for study, in his choice of a particular university there (to the registrar of which he should, of course, subsequently write for complete and official information). In addition to the particulars of, for example, 'First Degrees' and 'Higher Degrees', which are given in the separate chapter for each university, a detailed 'Directory to Subjects of Study' appears as part of each national introduction; there, in many cases in tabular form, is given a summarized statement on 'where to study what' in that country's universities. There is a new directory for Canada in the present edition.

One of the most frequently used sections of the *Yearbook* is the Names Index. By means of this index it is possible to find at which university any of the 50,000 men and women who comprise the university teaching and administrative staff of the Commonwealth is serving. Although in many parts of the Commonwealth most of these staff members have graduated at a university in the country where they now teach, there is also considerable movement from one country to another, which is illustrated by the overseas degrees appearing after names in the staff lists. In some of the national introductions (e.g., for Australia, on p. 11) there are now notes which provide an indication of the extent of this mobility.

The appendices contain, *inter alia*, full entries for the universities of two countries now outside the Commonwealth which have expressed a wish to remain in the *Yearbook*—those of the Republic of Ireland (which, though not in actual membership of the Association, retain close associations with the universities of the Commonwealth) and those of the Republic of South Africa (which under a legal ruling remain for the time being members of the A.U.B.C.). Appendix VII describes in summary form the Commonwealth Scholarship and Fellowship Plan which was drawn up at the first Commonwealth Education Conference at Oxford in 1959 and which has been reviewed at the second conference in Delhi in January 1962. For the first time there is included a table (which it is hoped will be an annual feature) showing the countries of origin and study of Commonwealth Scholars.

In this edition for the first time, the names of

PREFACE

countries have been inserted in black type as foot-notes on each right-hand page, and a brief contents list has been added in the first and last 'openings' of the book. It is hoped that these aids will make it easier for the reader to locate quickly the individual national sections.

The editors wish to make the *Yearbook* as effective a work of reference as possible and will give careful consideration to any constructive suggestions for its improvement which readers may wish to offer. Copies of the book may be consulted in the library or registrar's office of all Commonwealth universities and are understood to be available for reference in many other university libraries throughout the world.

The *Yearbook* is a co-operatively compiled work, the material for which is supplied from some 200 university or college offices in 22 countries to the office of the A.U.B.C. in London where it is edited before being sent to press. The Executive Council of the Association again wishes to express its thanks to the registrars, and to the authors of the national introductions, without whose sympathetic help this volume would not have been produced. It must be understood, however, that neither the Association nor the universities, while taking every care to ensure reliability, can accept responsibility for any error that may appear among the very many statements of fact which the book contains.

GUIDE TO THE UNIVERSITY ENTRIES

The date at the beginning of each *Yearbook* university entry is the date at which the material was completely revised and brought up to date by the university for this edition. Resignations, retirements and new appointments which it was known then would take effect before March 1962 were taken account of in the compilation of the staff lists; and, where universities supplied the necessary information, subsequent senior staff changes were also incorporated up to the time of going to press.

DATE OF FOUNDATION. The date of foundation is given immediately below the name of the uni-

versity and is normally the year in which the institution came into legal existence with the title of university *i.e.* the year the act or charter incorporating it with the title of university came into force. (In the case of colleges which do not have the title of university, read 'college' for 'university' in the previous sentence).

The PRINCIPAL DIVISIONS of each *Yearbook* university entry are: (1) Principal Officers; (2) Teaching Staff; (3) Administrative and Other Staff; (4) Constituent, Affiliated or Associated Institutions; (5) General Information; (6) 'The Year 1960'.

PRINCIPAL OFFICERS AND TEACHING STAFF

DEPARTMENTS. The directory of teaching staff is subdivided into departments (indicated by bold headings) normally arranged in alphabetical order for ease of reference. Because of the divergent practices of different universities about the organization of subjects, it has not been considered advantageous to group these departments under faculty headings, but in special cases where there is a group of departments constituting a more or less distinct entity to which it is obviously helpful to be able to refer in a consecutive and separate entry (*e.g.* a *multi-departmental* school of engineering, of medicine, or of dentistry), they are set out together at the end of the main list, each group under a separate bold-type heading in capital letters, and cross-references to the subject headings in this grouping have been inserted at appropriate places in the main list.

Where the department of physical education is a teaching department, it is placed in the general subject list in alphabetical order, but where its main function is that of promoting the physical welfare of students of the whole university the names of its staff appear under the 'Administrative and Other Staff' heading.

SPECIAL LECTURESHIPS (and the names of the current holders thereof) which carry for the holder the status of a temporary member of the staff of the university or college and which involve an extended course of lectures (rather than merely one or two single lectures) are inserted before the list of 'Administrative and Other Staff', as are also entries for the *teaching* officers of such special institutes and departments, *etc.*, as institutes of education, research institutes and extramural departments.

ORDER AND STATUS. The names of members of staff are arranged under each subject heading in

order of seniority, wherever possible, and not in alphabetical order. Each individual's special subject (*e.g.* inorganic chemistry, civil engineering, modern history) and status (*e.g.* professor, reader, senior lecturer, lecturer) is indicated opposite his name. Where a Chair or other post has a distinctive title, that title is incorporated in the staff list opposite the holder's name (*e.g.* Slade Prof., Laurence Reader, Sidgwick Lectr.).

PART-TIME members of staff are indicated by the symbol †.

EMERITUS PROFESSORS are not included unless they are still active members of the teaching staff.

RESEARCH OFFICERS (including research fellows) are not listed by name unless they are regarded as regular members of staff.

JUNIOR STAFF. The most junior staff (such as temporary assistants and junior demonstrators) are not listed by name; such staff are normally covered only by a composite reference, *e.g.* 3 Jr. Demrs.

MEN'S FIRST NAMES are designated only by initials (*e.g.* Smith, J.P.D.) except in the case of knights and baronets, or where it is necessary to distinguish between two men with the same initials and surname, at the same university or college. One first name of a knight or baronet is given in full.

WOMEN'S NAMES are indicated by the writing in full of one first name, any other first names being represented by initials only (*e.g.* Smith, Mary J.) The word 'Mrs.' is inserted before the names of married women, but the word 'Miss' is omitted except where the woman's first name is likely to be unfamiliar as such to English-speaking

readers (as in the case of certain Eastern and African names).

ON LEAVE. Absence from the university on study leave, on secondment, on government duty, etc., is indicated by '(on leave)'. It is inserted only where the teacher will be on leave during the greater part of the 12 months following March 1962. If, however, the teacher has been seconded to the university from another university or other body, then '(on secondment from [name of institution])' is inserted.

ABBREVIATIONS. Lists of abbreviations (and relevant expansions) used for names of universities, for degrees, for university diplomas and certificates, and for certain non-university qualifications appear on pages xv-xxxi.

Each individual's university DEGREE, DIPLOMA AND CERTIFICATE and any of his non-university qualifications which are mentioned in the next paragraph are noted in abbreviated form after his name. The university of origin of degrees, diplomas and certificates is also given but it should be noted that degrees, diplomas and certificates awarded by the university in whose entry the name of the staff member appears are indicated by being placed, *without* the name of the university,* after any other degrees, diplomas or certificates. For example, the qualifications of a teacher possessing an MA of Sydney, a PhD of Adelaide and a diploma in education of Adelaide would be set out as follows if his name appeared in the Adelaide entry: MA Syd., PhD DipEd. If his name appeared in the Sydney entry his qualifications would be set out thus: PhD DipEd Adel., MA. The abbreviations for the names of universities

are set in italic type; it should be noted that these abbreviations are not necessarily identical with those usually employed by the awarding universities. To save space, the word 'Hons.' (= Honours) is not placed after degrees in the staff lists, but 'Hon.' (= Honorary) is inserted before honorary degrees.

NON-UNIVERSITY QUALIFICATIONS. The *Yearbook* aims at providing in the staff directories an accurate and comprehensive list of each teacher's university qualifications. Because of the need to save space, however, the number of titles not of university origin has had to be kept to a minimum and, to ensure consistency, it has been decided to list only the following such qualifications:

- (1) *Honours* conferred by the Crown (listed on pages xxix-xxxi).
- (2) *Fellowships* of learned bodies of high standing. Only those listed on pages xxix-xxxi are included in this edition of the *Yearbook*.
- (3) *Memberships* of the senior professional bodies in each country for physicians and for civil, electrical and mechanical engineers (listed on p. xxxi). Only one such membership is allowed after any one person's name. Associate memberships are not mentioned.

In setting out titles and qualifications after names the following order is observed:

- (1) Honours conferred by the Crown.
- (2) University degrees, diplomas and certificates.
- (3) Fellowships and memberships of certain institutions (*see above*).

ADMINISTRATIVE AND OTHER STAFF

This section includes administrative staff who do not appear in the list of 'Principal Officers'.

THE YEAR 1960

The purpose of this section is to provide a detailed record of events in the university during the calendar year ending December 31, 1960 (the period covered by the sections relating to Degrees, Diplomas and Certificates Awarded is, however, the academic year 1959-60 (southern hemisphere, 1960) plus the long vacation following, and the information about student numbers relates to the beginning of the academic year 1960-61 (southern hemisphere, 1961)).

PRINCIPAL BENEFACTIONS. Only gifts of more than £10,000 or equivalent are listed. Government grants are not included. The *total* monetary

value of all benefactions received is frequently given.

MAJOR BUILDING DEVELOPMENTS. This entry records information about buildings completed or approaching completion during the period under review.

RESIGNATIONS of staff members of the rank of lecturer (or equivalent) and above are recorded.

DEATHS of staff members, or of distinguished staff members who had retired, are recorded.

STUDENT NUMBERS. Students are classified as

* But where a teacher has a degree with the same abbreviation from two universities, both are named, even though it is in the entry for one of them that his name appears, e.g. the holder of an MA of Cambridge and an MA of Adelaide would be listed in the Adelaide entry as MA Camb. & Adel.

part-time if they are engaged in regular employment during the academic year and therefore cannot devote their full time to their studies. If a university has indicated that it has used a different definition a note has been added to the text. By *new admissions* is meant the number of students entering the university or college for the first time. For *Yearbook* purposes a student 'from another country' is one whose permanent home residence is in that other country, i.e. one whose parents are only temporarily resident or employed abroad is not included, nor is one who was born in another country and may therefore have a foreign nationality but is now living per-

manently in the country in which the university or college is situated.

It should be noted that, although every effort has been made by the editors to secure uniformity, the figures of student numbers given in the individual university entries may possibly be compiled on slightly different statistical bases even in the one country.

The lists of DEGREES, DIPLOMAS AND CERTIFICATES AWARDED give the numbers of students who have the right, under the regulations of the university, to use the title of the degree, diploma or certificate regardless of whether or not it has been ceremonially conferred.

ABBREVIATIONS

- A, for names of universities (p. xv)
 B, for Commonwealth university degrees (p. xvii)
 C, for Commonwealth university diplomas (p. xxvii) *
 D, for non-university qualifications (p. xxix) •

A. ABBREVIATIONS FOR NAMES OF UNIVERSITIES

Listed below are the expanded forms of the abbreviations used in the *Yearbook* for names of universities placed after degrees, diplomas, certificates, etc. It should be noted that only the universities most frequently mentioned in the staff lists in the *Yearbook* are included and that these abbreviations are not necessarily identical with those employed by the individual universities themselves.

<i>Abbreviation</i>	<i>University</i>	<i>Abbreviation</i>	<i>University</i>
Aberd.	Aberdeen	Corn.	Cornell
Acad.	Acadia	C.U.A.	Catholic University of America
Adel.	Adelaide		
Alig.	Aligarh Muslim	Dal.	Dalhousie
Alld.	Allahabad	Dub.	Dublin, Trinity College
Alta.	Alberta	Durh.	Durham
Amst.	Municipal University of Amsterdam		
And.	Andhra	Edin.	Edinburgh
Annam.	Annamalai	E.H. Rotterdam	Nederlandse Economische Hogeschool, Rotterdam
A.N.U.	Australian National	E.T.H. Zürich	Eidgenössische Technische Hochschule, Zürich
Assum.	Assumption		
		Exe.	Exeter
Ban.	Benares Hindu		
Bda.	Baroda (Maharaja Sayajirao University of)	Flor.	Florida
Belf.	Belfast (Queen's University of)	Fran.	Frankfurt
Berl.	Berlin	Freib.	Freiburg (Germany)
Birm.	Birmingham	Frib.	Fribourg (Switzerland)
Bom.	Bombay		
Bres.	Breslau	Gauh.	Gauhati
Brist.	Bristol	Glas.	Glasgow
Br. Col.	British Columbia	Gorak.	Gorakhpur
Bud.	Budapest	Gött.	Göttingen
		Greg.	Pontifical Gregorian University, Vatican
		Gron.	Groningen
Calc.	Calcutta	Gujar.	Gujarat
Calif.	California		
Cal. Tech.	California Institute of Technology	Harv.	Harvard
		Heidel.	Heidelberg
Camb.	Cambridge	H.K.	Hong Kong
Cape	Cape of Good Hope (now incorporated in the University of South Africa)		
		Ill.	Illinois
Cape T.	Cape Town	Iowa	State University of Iowa
Car.	Carleton		
Carnegie Tech.	Carnegie Institute of Technology	Jab.	Jabalpur
C.C.N.Y.	City College, New York	Jad.	Jadavpur
Ceyl.	Ceylon	J. & K.	Jammu and Kashmir
Chic.	Chicago	Johns H.	Johns Hopkins
Cinc.	Cincinnati		
Col.	Columbia	Karn.	Karnatak
Conn.	Connecticut	K.C.N.S.	King's College (Nova Scotia)

<i>Abbreviation</i>	<i>University</i>	<i>Abbreviation</i>	<i>University</i>
Leic.	Leicester	Q'ld.	Queensland (Australia)
Leip.	Leipzig	Qu.	Queen's (Canada)
Ley.	Leyden		
Liv.	Liverpool	Raj.	Rajasthan (formerly Rajputana)
Lond.	London	Rand	Witwatersrand, Johannesburg
Luck.	Lucknow	R'dg.	Reading
		R.M.C.	Royal Military College of Canada
McG.	McGill	Roch.	Rochester
McM.	McMaster	Roor.	Roorkee
Madr.	Madras		
Manc.	Manchester (Victoria University of)	S.A.	South Africa
Manit.	Manitoba	St. And.	St. Andrews
Marath.	Marathwada	St. Dun.	St. Dunstan's
Mass.	Massachusetts	St. F.X.	St. Francis Xavier
Melb.	Melbourne	St. Jos.	St. Joseph's
Mich.	Michigan	St. M.	St. Mary's
Mich. State	Michigan State	Sask.	Saskatchewan
Minn.	Minnesota	Saug.	Saugar
M.I.T.	Massachusetts Institute of Technology	S. Calif.	Southern California
Montr.	Montreal	Sheff.	Sheffield
Mt. All.	Mount Allison	Sher.	Sherbrooke
Mt. St. Vin.	Mount St. Vincent (College)	Sir G. Wms.	Sir George Williams
Mün.	Münster	S.N.D.T.	S.N.D. Thackersey Women's University
Mys.	Mysore	S'ton.	Southampton
		Stan.	Stanford
Nag.	Nagpur	Stell.	Stellenbosch
N.E.	New England	Stras.	Strasbourg
New Br.	New Brunswick	S. Venkat.	Sri Venkateswara
Nfld.	Memorial University of New- foundland	S.V.V.	Sardar Vallabhbhai Vidyapeeth
Nig.	Nigeria	Syd.	Sydney
Nott.	Nottingham	Syr.	Syracuse
N. Staffs.	North Staffordshire (University College of)	Tas.	Tasmania
N.S.T.C.	Nova Scotia Technical College	T.H. Aachen,	Technische Hochschule, Aachen, Stuttgart, etc.
N.S.W.	New South Wales (formerly N.S.W. Univ. of Technology)	T.H. Delft	Technische Hogeschool, Delft
N.S.W.U.T.	New South Wales University of Technology (now Univ. of N.S.W.)	Tor.	Toronto
N.U.I.	National University of Ireland	Trav.	Travancore (now Kerala)
N.Y.	New York (University)	Trin.	Imperial College of Tropical Agriculture (now part of Uni- versity College of the West Indies)
N.Y. State U.	New York (State University of)	Trin. Coll	Trinity College, University of
N.Z.	New Zealand	Tor.	Toronto
		U.T.S. (N.Y.)	Union Theological Seminary, New York
O.F.S.	Orange Free State		
Osm.	Osmania	VB.	Visva-Bharati
Ott.	Ottawa	Vic. Tor.	Victoria (Toronto)
Oxon.	Oxford	V.U. Amst.	Free University of Amsterdam
Panj.	Panjab (Lahore, Pakistan)	Wash.	Washington (Seattle)
Panj. (I.)	Panjab (Chandigarh, India)	W. Aust.	Western Australia
Penn.	Pennsylvania	Wis.	Wisconsin
Pesh.	Peshawar	W. Ont.	Western Ontario
Pitt.	Pittsburgh		
Potchef.	Potchefstroom	Zür.	Zürich
Pret.	Pretoria		
Prin.	Princeton		

B. COMMONWEALTH DEGREE ABBREVIATIONS

In the following list the degree title opposite each abbreviation is the expanded form normally used by the university, or universities, in the Commonwealth which currently award that degree.

Many of these degrees are awarded with honours (the courses for some honours degrees being quite distinct from the courses for the corresponding pass degrees), but, for reasons of space, the honours form of the abbreviation and title is not given below (*e.g.* BA *hons.* is excluded). Similarly 'special' and 'general' degrees are not separately distinguished, *e.g.* BSc(Sp) and BSc(Gen) are excluded. For the purposes of this list, a 'conjoint' degree, such as MB ChB, is listed as two separate degrees.

Honorary degrees are included in the list below, but they are not distinguished from other degrees.

It should be noted that many of the degrees listed below are awarded by only one university and that many others are awarded by only a relatively small number of universities.

ABMS	Ayurvedacharya, Bachelor of Medicine and Surgery
BA	Bachelor of Arts [Bachelier ès Arts : Laval, Montr., Ott., St. Jos, Sher.]
	Bachelor in Arts : Acad.
BA(Admin)	Bachelor of Arts in Administration
BA(Arch)	Bachelor of Arts (Architecture)
BAcc	Bachelor of Science in Accounting
BA(Com)	Bachelor of Arts in Commerce
BA(Econ)	Bachelor of Arts (Economics) : Brist.
	Bachelor of Arts in Economics and Politics : Manc.
	Bachelor of Arts in Economic Studies : Sheff.
BA(FA)	Bachelor of Arts (Fine Arts)
BA(Fine)	Bachelor of Arts (Fine)
BA Fine Arts	Bachelor of Arts in Fine Arts
BAg	Bachelor of Agriculture
BAGec	Bachelor of Agricultural Economics
BAgr	Bachelor of Agriculture
BAgrE	Bachelor of Agricultural Engineering
BAgrSc	Bachelor of Agricultural Science
BAGrSc(DairyTech)	Bachelor of Agricultural Science (Dairy Technology)
BAGrSc(Hort)	Bachelor of Agricultural Science (Horticulture)
BAGSc	Bachelor of Agricultural Science
BA(Home Arts)	Bachelor of Arts (Home Arts)
BA in Fine Arts	Bachelor of Arts in Fine Arts
BA in Logopedics	Bachelor of Arts in Logopedics
BA in Public Administration	Bachelor of Arts in Public Administration
BA in SS	Bachelor of Arts in Social Studies
BA in SW	Bachelor of Arts in Social Work
BALatPhil	Bachelor of Arts in Latin Philosophy
BA(Law)	Bachelor of Arts in Law
BAM	Bachelor of Ayurvedic Medicine
BAM&S	Bachelor of Ayurvedic Medicine and Surgery
BA(Mus)	Bachelor of Arts in Music
BAO	Bachelor of Obstetrics
BA(PE)	Bachelor of Arts in Physical Education
BAppSc	Bachelor of Applied Science
BArch	Bachelor of Architecture
BAp	Bachelor of Surveying [Bachelier en Arpentage] : Laval
BASc	Bachelor of Applied Science
BA(SecCert)	Bachelor of Arts with Secretarial Certificate
BA(SS)	Bachelor of Arts in Social Science
BA(Theol)	Bachelor of Arts in Theology
BA(Theology)	Bachelor of Arts (Theology)
BA(TP)	Bachelor of Arts in Town and Country Planning
BAV	Bachelor of Ayurveda
BBA	Bachelor of Business Administration

BBldg	Bachelor of Building Science
BBldSc	Bachelor of Building Science
BBibl	Bachelor in Library Science [Bachelier en Bibliothéconomie] : Montr.
BCE	Bachelor of Civil Engineering
BCh	Bachelor of Surgery
BChD	Bachelor of Dental Surgery
BChE	Bachelor of Chemical Engineering
BChemE	Bachelor of Chemical Engineering
BChemEng	Bachelor of Chemical Engineering
BChemEngg	Bachelor of Chemical Engineering
BChemTech	Bachelor of Chemical Technology
BChir	Bachelor of Surgery
BCL	Bachelor of Civil Law
	Bachelor of Civil Laws : Delhi *
BCom	Bachelor of Commerce [Bachelier en Commerce : Sher.]
BCom(EconPol&Sociol)	Bachelor of Commerce (Economics, Politics and Sociology)
BCom(Geog)	Bachelor of Commerce (Geography)
BComm	Bachelor of Commerce
BComSc	Bachelor of Commercial Science
BCom(SocStudy)	Bachelor of Commerce (Social Study)
BCom with Russian Studies	Bachelor of Commerce with Russian Studies
BD	Bachelor of Divinity
	Bachelor of Theology : Malta
BDC	Bachelor of Canon Law [Bachelier en Droit canonique] : Ott.
BDS	Bachelor of Dental Surgery
BDSce	Bachelor of Dental Science
BE	Bachelor of Engineering
	Bachelor of Science in Engineering : Sask.
BEc	Bachelor of Economics
BEChem	Bachelor of Chemical Engineering
BE(Chem)	Bachelor of Chemical Engineering
BE(Civil)	Bachelor of Engineering (Civil)
BEcon	Bachelor of Economics
BEcon(IA)	Bachelor of Economics in Industrial Administration
BEcon(PA)	Bachelor of Economics in Public Administration
BEed	Bachelor of Education [Bachelier en Éducation : Ott., St. Jos.]
	Bachelor in Education : Acad.
BEdN	Bachelor of Education in Nursing
BEd(PE)	Bachelor of Education (Physical Education)
BEdPR	Bachelor of Physical and Recreational Education [Bachelier en Éducation physique et récréative] : Montr.
BEdSc	Bachelor of Educational Science
BEE	Bachelor of Electrical Engineering
BE(Elect)	Bachelor of Engineering (Electrical)
BE(Mech)	Bachelor of Engineering (Mechanical)
BE(Metall)	Bachelor of Engineering (Metallurgy)
BE(Mining)	Bachelor of Engineering (Mining)
BEng	Bachelor of Engineering
BEngSc	Bachelor of Engineering Science
BE(Tele-Com)	Bachelor of Engineering (Tele-Communication)
BFA	Bachelor of Fine Arts
BFor	Bachelor of Forestry
BForSc	Bachelor of Forestry Science
BHE	Bachelor of Home Economics
BHEc	Bachelor of Household Economics
BHSc	Bachelor of Household Science
	Bachelor of Home Science : N.Z.
BID	Bachelor of Interior Design
BIM	Bachelor of Indian Medicine
BJ	Bachelor of Journalism
BJur	Bachelor of Jurisprudence *
BL	Bachelor of Law
	Bachelor of Laws : And., Kerala, Madr., Mys.
BLib	Bachelor of Library Science
BLibSc	Bachelor in Library Science

BLatt	Bachelor of Letters
BLS	Bachelor of Library Science
BM	Bachelor of Medicine
BME	Bachelor of Mining Engineering
BMechE	Bachelor of Mechanical Engineering : Jadavpur
BMedSc	Bachelor of Mechanical Engineering
BMed	Bachelor of Medical Science
BMetE	Bachelor of Metallurgy
BMus	Bachelor of Metallurgical Engineering
BN	Bachelor of Music [Bachelier en Musique : Laval, Montr.]
BNSc	Bachelor of Nursing
BOL	Bachelor of Nursing Science
BOR	Bachelor of Oriental Learning
BPE	Bachelor of Orientation [Bachelier en Orientation] : Laval
BPed	Bachelor of Physical Education
BPéd	Bachelor of Pedagogy
BPéd(ScTech)	Bachelor of Education [Bachelier en Pédagogie] : Laval Bachelor of Pedagogy [Bachelier en Pédagogie] : Montr., Sher. Bachelor of Pedagogy (technical sciences) [Bachelier en Pédagogie (sciences technologiques)] : Sher.
BPF	Bachelor of Family Pedagogy [Bachelière en Pédagogie familiale] : Montr.
BPh	Bachelor of Philosophy [Bachelier en Philosophie] : Laval, Montr., Ott
BPharm	Bachelor of Pharmacy [Bachelier en Pharmacie : Laval, Montr.]
BPHE	Bachelor of Physical and Health Education
BPhil	Bachelor of Philosophy
BPh(Psychologie)	Bachelor of Philosophy (psychology) [Bachelier en Philosophie (psychologie)] : Montr.
BPh(ScMédiévales)	Bachelor of Philosophy (Mediaeval Studies) [Bachelier en Philosophie (sc. médiévales)] : Montr.
BPhy	Bachelor of Physiotherapy
BRE	Bachelor of Religious Education
BRurSc	Bachelor of Rural Science
BS	Bachelor of Surgery
BSA	Bachelor of Science in Agriculture Bachelor of Agriculture [Bachelier en Sciences agricoles] : Laval Bachelor of Science in Agriculture [Bachelier ès Sciences agricoles] : Montr.
BSc	Bachelor of Science [Bachelier ès Sciences : Laval, Montr., Ott., St Jos., Sher.]
BScA	Bachelor in Science : Acad. Bachelor of Applied Sciences [Bachelier ès Sciences appliquées] : Laval Bachelor of Applied Science [Bachelier ès Sciences appliquées] : Montr., Sher.
BScAg	Bachelor of Science in Agriculture
BSc(Ag)	Bachelor of Science (in Agriculture) : Raj.
BSc(AgE)	Bachelor of Science in Agriculture
BScAgr	Bachelor of Science (Agriculture) : Madr., Mys.
BSc(Agr)	Bachelor of Science in Agricultural Engineering
BSc(AgrEngineering)	Bachelor of Science in Agriculture
BSc(Agr)	Bachelor of Science in Agriculture
BScAgric	Bachelor of Science (Agriculture) : Bihar, Nāg.
BSc(Agric)	Bachelor of Science in Agricultural Engineering
BSeAgriculture	Bachelor of Science (Agriculture)
BSe(Agriculture)	Bachelor of Science (Agriculture)
BSe(AH)	Bachelor of Science (Animal Husbandry)
BSeApp	Bachelor of Applied Science
BSe(Applied)	Bachelor of Applied Science
BSe(CE)	Bachelor of Science in Civil Engineering
BSeChemEngineering	Bachelor of Science in Chemical Engineering
BSeChemTech	Bachelor of Science in Chemical Technology

BSc(ChemTech)	Bachelor of Science in Chemical Technology
BSc(CivEng)	Bachelor of Science (Civil Engineering)
BSc(Civil&Municipal Engg)	Bachelor of Science in Civil Engineering : New Br.
BScComm	Bachelor of Science (Civil and Municipal Engineering)
BScComm	Bachelor of Commerce [Bachelier en Sciences commerciales] : Laval
	Bachelor of Commercial Science [Bachelier ès Sciences commerciales] : Montr.
BScComm	Bachelor of Commercial Science [Bachelier ès Sciences commerciales] : St. Jos.
BScD	Bachelor of Science in Dentistry
BSc(Dairying)	Bachelor of Science in Dairying
BSc(Dent)	Bachelor of Science in Dentistry
BScDom	Bachelor of Household Science [Bachelier en Sciences domestiques] : Sher.
	Bachelor of Household Sciences [Bachelier en Sciences domestiques] : Laval
BSc(Domesticae)	Bachelor of Science in Domestic Science : Syd.
BSc(DomSc)	Bachelor of Domestic Science
BSc(DomSci)	Bachelor of Science (Domestic Science)
BSc(Econ)	Bachelor of Science in Economics
	Bachelor of Science (Economics) : Lond.
BScEdInf	Bachelor of Science in Nursing Education [Bachelière en Sciences de l'Éducation des infirmières] : Montr.
BSc(EE)	Bachelor in Science in Electrical Engineering
BSc(ElectEngg)	Bachelor of Science in Electrical Engineering : Dacca
BSc(EIEEd)	Bachelor of Science (Electrical Engineering)
BScEng	Bachelor of Science in Elementary Education
	Bachelor of Science in Engineering
BSc(Eng)	Bachelor of the Science of Engineering : Ceyl.
	Bachelor of Science in Engineering
BScEng(Agric)	Bachelor of Science (Engineering) : Lond., Patna, Trav.
BSc(Eng) (Civil)	Bachelor of Science in Agricultural Engineering
BSc(Eng) (Elect)	Bachelor of Science in Engineering (Civil)
BSc(Engg)	Bachelor of Science in Engineering (Electrical)
BSc(Eng) (Geol)	Bachelor of Science (Engineering)
BSc(Eng) (Mech)	Bachelor of Science in Engineering (Geological)
BSc(EngPhys)	Bachelor of Science in Engineering (Mechanical)
BSc(Engr)	Bachelor of Science in Engineering Physics
BSc(EstMan)	Bachelor of Science (Engineering)
BScF	Bachelor of Science (Estate Management)
	Bachelor of the Science of Forestry
BScFor	Bachelor of Science in Forestry : Melb.
BSc(For)	Bachelor of Science in Forestry
BSc(FuelTech)	Bachelor of Science in Fuel Technology
BSc(GenSc)	Bachelor of Science in General Science
BSc(H&SS)	Bachelor of Science (Household and Social Science)
BSc(HEc)	Bachelor of Science in Home Economics
	Bachelor in Science with Home Economics : Acad.
	Bachelor of Science in Household Economics : Alta.
BSc(Home)	Bachelor of Science (Home)
BSc(Home Economics)	Bachelor of Science (Home Economics)
BSc(Home Sciences)	Bachelor of Sciences (Home Sciences)
BSc(Hort)	Bachelor of Science in Horticulture
	Bachelor of Science (Horticulture) : Lond.
BSc(Hortic)	Bachelor of Science in Horticulture
BScHosp	Bachelor of Nursing [Bachelier en Sciences hospitalières] : Laval
BSc(Household Science)	Bachelor of Science (Household Science)
BSc(Hyg)	Bachelor of Science in Hygiene
BSc in Agriculture	Bachelor of Science in Agriculture
BSc in Arts	Bachelor of Science in Arts
BSc(IndChem)	Bachelor of Science (Industrial Chemistry)
BSc in Engineering	Bachelor of Science in Engineering

BSc in Home Economics	Bachelor of Science in Home Economics
BSc in Home Science	Bachelor of Science (Home Science)
BSc in Nursing	Bachelor of Science in Nursing
BScLA	Bachelor of Science (Laboratory Assistant)
BSc(ME)	Bachelor of Science in Mechanical Engineering
BSc(MechE)	Bachelor of Science in Mechanical Engineering
BSc(MechEng)	Bachelor of Science in Mechanical Engineering
BScMed	Bachelor of Science in Medicine
BSc(Med)	Bachelor of Science in Medicine
BScMet	Bachelor of Science (Medical): Syd., Bom.
BSc(Metallurgical Engineering)	Bachelor of Science in Metallurgy
BScMin	Bachelor of Science in Mining
BSc(Min)	Bachelor of Science in Mining
BSc Mining Engineering	Bachelor of Science in Mining Engineering
BSc(MLS)	Bachelor of Science in Medical Laboratory Science
BScN	Bachelor of Science in Nursing
BScNursing	Bachelor of Science in Nursing
	Bachelor of Science (Nursing): Delhi
BSc(Nutr)	Bachelor of Science (nutrition) [Bachelier ès Sciences (nutrition)]: Montr., Ott.
BSc(Nutrition)	Bachelor of Science (Nutrition)
BScP	Bachelor of Fisheries [Bachelier ès Sciences (pêcheries)]: Laval
BSc(PandOT)	Bachelor of Science in Physical and Occupational Therapy
BSc(Ped)	Bachelor of Science in Physical Education
BSc(Pharm)	Bachelor of Science in Pharmacy
	Bachelor of Science in Pharmaceutical Chemistry: Agra
BSc(Pharmacy)	Bachelor of Science in Pharmacy
BScPhm	Bachelor of Science in Pharmacy
BScPhysEd	Bachelor of Science in Physical Education
BSc(Physiotherapy)	Bachelor of Science in Physiotherapy
BScQS	Bachelor of Science in Quantity Surveying
BSc(QS)	Bachelor of Science in Quantity Surveying
BScRel	Bachelor of Religious Science [Bachelier en Sciences religieuses]: Montr.
BScRT	Bachelor of Science in Radiologic Technology
BScSoc	Bachelor of Social Sciences [Bachelier en Sciences sociales]: Montr.
BSc(Soc)	Bachelor of Science (Sociology): Lond.
	Bachelor of Social Sciences [Bachelier en Sciences sociales]: Laval
BScSP	Bachelor of Social and Political Sciences [Bachelier ès Sciences sociales et politiques]: Ott
BScSS	Bachelor of Science in Secretarial Studies
BScSur	Bachelor of Science in Land Surveying
BSc(Surv)	Bachelor of Science in Surveying
BSc(Survey)	Bachelor of Science (Survey)
BScT	Bachelor of Science in Medical Technology [Bachelier ès Sciences en Technologie médicale]: Montr.
BSc(TE)	Bachelor of Science in Textile Engineering
BScTech	Bachelor of Technical Science
BSc(Tech)	Bachelor of Technology
	Bachelor of Science (Technology): Bom., CMC, Nag.
	Bachelor of Science in Technology: Annam., Madr.
BScTech(Glass & Ceramics)	Bachelor of Science (Technical) Glass & Ceramics
BSc(Text)	Bachelor of Science (Textiles)
	Bachelor of Science in Textiles: Panj. (I.)
BSc(Vet)	Bachelor of Science (Veterinary)
BSc(VetSci)	Bachelor of Science (Veterinary Science)
BSc(Vety)	Bachelor of Veterinary Science
BServSoc	Bachelor of Social Service [Bachelier en Service social]: Laval
BSF	Bachelor of Science in Forestry
BSHEc	Bachelor of Science in Home Economics
BSLitt	Bachelor of Sacred Letters
BSN	Bachelor of Science in Nursing
BSocSc	Bachelor of Social Science

BSocSc(SW)	Bachelor of Social Science (Social Welfare)
BSocSt	Bachelor of Social Studies
BSP	Bachelor of Science in Pharmacy
BSSSt	Bachelor of Sanitary Science
BSurv	Bachelor of Surveying
BSW	Bachelor of Social Work
BT	Bachelor of Teaching
BTech	Bachelor in Technology
BTele	Bachelor of Telecommunication Engineering
BText	Bachelor of Textiles
BText(Eng)	Bachelor of Textile Engineering
BText(Tech)	Bachelor of Textiles (Technology)
BTh	Bachelor in Theology
	Bachelor of Theology . Alig. ; Laval, Montr., Ott , Sher. [Bachelier en Théologie]
BUMS	Bachelor of Unani Medicine and Surgery
BUTS	Bachelor of Unani Tib and Surgery
BVetMed	Bachelor of Veterinary Medicine
BVMS	Bachelor of Veterinary Medicine and Surgery
BVSc	Bachelor of Veterinary Science
BVSc&AH	Bachelor of Veterinary Science and Animal Husbandry
ChB	Bachelor of Surgery
ChemE	Chemical Engineer
ChM	Master of Surgery
CM	Master of Surgery
DAgrSc	Doctor of Agricultural Science
DArch	Doctor of Architecture
DCh	Doctor of Surgery
DCL	Doctor of Civil Law
DCLSc	Doctor of Clinical Science
DCnL	Doctor of Canon Law
DComm	Doctor of Commerce
DD	Doctor of Divinity
	Doctor of Theology : Malta
DDC	Doctor of Canon Law [Docteur en Droit canonique] : Ott.
DDS	Doctor of Dental Surgery [Docteur en Chirurgie dentaire : Montr.]
DDSc	Doctor of Dental Science
DE	Doctor of Engineering
Econ	Doctor of Economics [Docteur en Économie : Sher.]
DEd	Doctor of Education [Docteur en Éducation : Sher.]
DEng	Doctor of Engineering
DèsL	Doctor of Letters [Docteur ès Lettres] : Laval, Ott.
DHy	Doctor of Hygiene
DJur	Doctor Juris
DL	Doctor of Laws [Docteur en Droit : Sher.]
DLett	Doctor of Letters [Docteur en Lettres] : Montr., Sher.
DLit	Doctor of Literature
DLitt	Doctor of Letters
	Doctor of Literature : McG., Mt. All., Calc., Luck., Osm., Panj. (I.), Patna, Raj., Saug., Utkal, Ceyl., Dacca
DLitt&Phil	Doctor of Literature and Philosophy
DM	Doctor of Medicine
DMD	Doctor of Dental Medicine
DMet	Doctor of Metallurgy
DMiss	Doctor of Missiology [Docteur en Missiologie] : Ott.
DMus	Doctor of Music [Docteur en Musique : Laval, Montr.]
DMV	Doctor of Veterinary Medicine [Docteur en Médecine vétérinaire] : Montr.
DOL	Doctor of Oriental Learning
DPéd	Doctor of Education [Docteur en Pédagogie] : Laval
	Doctor of Pedagogy [Docteur en Pédagogie] : Montr., Sher.
DPh	Doctor of Philosophy [Docteur en Philosophie] : Laval, Montr., Ott.
DPharm	Doctor of Pharmacy [Docteur en Pharmacie] : Laval, Montr.
DPhil	Doctor of Philosophy

DPh(Psychologie)	Doctor of Philosophy (psychology) [Docteur en Philosophie (psychologie)] : Montr.
DPh(ScMédiévales)	Doctor of Philosophy (Medieval Studies) [Docteur en Philosophie (sc. médiévales)] : Montr.
DPaSc	Doctor of Psychological Science
DSA	Doctor of Agriculture [Docteur en Sciences agricoles] : Laval
DSc	Doctor of Science [Docteur ès Sciences : Laval, Montr., Ott., Sher.]
DScA	Doctor of Sciences [Docteur en Sciences appliquées] : Laval
DScAgr	Doctor of Applied Science [Docteur en Sciences appliquées] : Montr.
DScAgric	Doctor of Science in Agriculture
DSc(Agric)	Doctor of Science in Agriculture
DScCom	Doctor of Commerce [Docteur en Sciences commerciales] : Laval
	Doctor of Commercial Science or Doctor of Commerce [Docteur en Sciences commerciales] : Montr.
	Doctor of Commercial Science [Docteur en Sciences commerciales] : Sher.
DSc(Econ)	Doctor of Science (Economics) [Docteur en Sciences économiques : Sher.]
	Doctor of Science in Economics : Hull, S'ton.
DScEng	Doctor of Science (Engineering)
	Doctor of Science in Engineering : Syd.
DSc(Eng)	Doctor of Science (Engineering)
DScFor	Doctor of Science in Forestry
DScMil	Doctor of Military Science
DScPol	Doctor of Political Sciences [Docteur ès Sciences politiques] : Ott.
DSc(PubHealth)	Doctor of Science (Public Health)
DScSoc	Doctor of Social Sciences [Docteur en Sciences sociales] : Laval
	Doctor of Social Science [Docteur en Science sociale] : Montr.
DScTech	Doctor of Technical Science
DSocSc	Doctor of Social Science
DSW	Doctor of Social Work
DTech	Doctor in Technology
DTTh	Doctor of Theology [Docteur en Théologie] : Laval, Montr., Ott.
DU	Doctor of University [Docteur de l'Université] : Laval, Sher.
DVM	Doctor of Veterinary Medicine
DVSc	Doctor of Veterinary Science
EdB	Bachelor of Education
EdD	Doctor of Education
EE	Electrical Engineer
IF	Forest Engineer [Ingénieur forestier] : Laval
LDC	Licentiate in Canon Law [Licencié en Droit canonique] : Ott.
LEns	Licentiate of Teaching [Licencié en Enseignement] : Sher.
LésL	Licentiate of Letters [Licencié ès Lettres] : Laval
LH	Licentiate of Hygiene [Licencié en Hygiène] : Montr.
LicD	Licentiate in Theology
LittD	Doctor of Letters
	Doctor of Literature : N.Z.
LittD(Econ)	Doctor of Letters in Economic Studies
LLB	Bachelor of Laws
	Bachelor of Law : Camb., Patna, Sind ; Laval & Montr. [Bachelier en Droit],
LLD	Doctor of Laws
	Doctor of Law : Camb. ; Laval & Montr. [Docteur en Droit]
LLett	Licentiate of Letters [Licencié ès Lettres] : Montr.
LLL	Licentiate of Law [Licencié en Droit] : Laval, Montr., Sher.
LLM	Master of Laws
	Master of Law : Camb., Sind
LMus	Licentiate of Music [Licencié en Musique] : Laval, Montr.
LOr	Licentiate or Master of Orientation [Licencié en Orientation] : Laval
LPéd	Licentiate or Master of Education [Licencié en Pédagogie] : Laval
	Licentiate of Pedagogy [Licencié en Pédagogie] : Montr., Sher.
LPh	Licentiate of Philosophy [Licencié en Philosophie] : Laval, Montr., Ott.
LPh(Psychologie)	Licentiate of Philosophy (Psychology) [Licencié en Philosophie (Psychologie)] : Montr.

LPh(ScMédiévales)	Licentiate of Philosophy (Mediaeval Studies) [Licencié en Philosophie (sc. médiévales)] : Montr.
LPsSc	Licentiate in Psychoeducational Counselling [Licencié en Psychologie Scolaire] : Sher.
LSA	Licentiate of Science in Agriculture [Licencié ès Sciences agricoles] : Montr.
LSc	Licentiate of Sciences [Licencié ès Sciences] : Laval
LScCom	Licentiate of Commercial Sciences or Master of Commerce [Licencié en Sciences commerciales] : Montr.
LScComptables	Licentiate of Accountancy [Licencié en Sciences comptables] : Montr.
LScO	Licentiate of Optometry [Licencié en Sciences—optométric] : Montr.
LScPol	Licentiate in Political Sciences [Licencié ès Sciences politiques] : Ott.
LST	Licentiate in Sacred Theology
LTh	Licentiate or Master of Theology [Licencié en Théologie] : Laval, Montr., Ott.
MA	Master of Arts [Maître ès Arts : Laval, Montr., Ott., St. Jos.]
MA(AdmHosp)	Master of Arts (Hospital Administration) [Maître ès Arts (administration hospitalière)] : Montr.
MA(Anthropology)	Master of Arts in Anthropology
MA(Arch)	Master of Arts (Architecture)
MA(Droit)	Master of Arts (Law) [Maître ès Arts (droit)] : Montr.
MA(Econ)	Master of Arts in Economic Studies
MA(Ed)	Master of Arts in Education
MA(FA)	Master of Arts in Fine Arts
MA(Fine)	Master of Arts (Fine)
MA Fine Arts	Master of Arts in Fine Arts
MAg	Master of Agriculture
MAgEc	Master of Agricultural Economics
MAgr	Master of Agriculture
MAgrSc	Master of Agricultural Science
MAgrSc(DairyTech)	Master of Agricultural Science (Dairy Technology)
MAgrSc(Hort)	Master of Agricultural Science (Horticulture)
MAgSc	Master of Agricultural Science
MA(Lettres)	Master of Arts (Letters) [Maître ès Arts (lettres)] : Montr.
MA(LibSc)	Master of Library Science
MAO	Master of Obstetrics
MA(Orthophonie et Audiologie)	Master of Arts (Orthophonics and Audiology) [Maître ès Arts (orthophonie et audiologie)] : Montr.
MA(Ph)	Master of Arts (Philosophy) [Maître ès Arts (philosophie)] : Laval, Ott.
MA(Philosophie)	Master of Arts (Philosophy) [Maître ès Arts (philosophie)] : Montr.
MAppSc	Master of Applied Science
MA(Psychologie)	Master of Arts (Psychology) [Maître ès Arts (psychologie)] : Montr.
MArch	Master of Architecture
MArch(CP)	Master of Architecture (Community Planning)
MA(Religion)	Master of Arts (Religion) [Maître ès Arts (Religion)] : Sher.
MA(RuralStudies)	Master of Arts in Rural Studies
MASe	Master of Applied Science
MA(ScMédiévales)	Master of Arts (Mediaeval Studies) [Maître ès Arts (sc. médiévales)] : Montr.
MA(SocialWork)	Master of Arts in Social Work
MA(SS)	Master of Arts in Social Science
MB	Bachelor of Medicine
MBA	Master of Business Administration
MBM	Master of Business Management
MCD	Master of Civic Design
MCE	Master of Civil Engineering
MCh	Master of Surgery
MChD	Master of Dental Surgery
MChE	Master of Chemical Engineering
MChir	Master of Surgery
MChOrth	Master of Orthopaedic Surgery
MCL	Master of Civil Law
MCISc	Master of Clinical Science
MCom	Master of Commerce [Maître en Commerce : Sher.]
MComm	Master of Commerce

MD	Doctor of Medicine [Docteur en Médecine : Laval, Montr., Ott.]
MDiv	Doctor of Medicine and Surgery : Malta
MDS	Master of Divinity
MDSc	Master of Dental Surgery
ME	Master of Dental Science
ME(Auto)	Master of Engineering
ME(Civil)	Master of Automobile Engineering
ME(Elec)	Master of Engineering (Civil)
ME(Mech)	Master of Engineering (Electrical)
MEc	Master of Engineering (Mechanical)
MEcon	Master of Economics
MEd	Master of Economics
MEE	Master of Education
ME(Elec)	Master in Education : Hull, Manc.
MEng	Master of Electrical Engineering
MEngSc	Master of Engineering (Electronics)
MEns	Master of Engineering
ME(PubHealth)	Master of Engineering Science
MetE	Master of Teaching [Maître en Enseignement] : Sher.
MF	Master of Engineering (Public Health)
MGO	Metallurgical Engineer
MHA	Master of Forestry
MHSc	Master of Gynæcology and Obstetrics
ML	Master of Hospital Administration
MLab	Master of Home Science
MLibSc	Master of Laws
MLatt	Master of Law : Bihar
MLS	Master of Library Science
MME	Master of Library Science
MMechE	Master of Letters
MMed	Master of Library Science
MMed(Path)	Master of Mining Engineering
MMedSc	Master of Mechanical Engineering : Jadavpur
MMet	Master of Mechanical Engineering
MMetE	Master of Medicine
MMus	Master of Medicine in Pathology
MO	Master of Medical Science
MOG	Master of Metallurgy
MOL	Master of Metallurgical Engineering
MP	Master of Music [Maître en Musique : Montr.]
MPE	Master of Obstetrics
MPharm	Master of Obstetrics and Gynæcology
MPhil	Master of Oriental Learning
MPsSc	Master of Planning
MRad	Master of Physical Education
MRI	Master of Pharmacy [Maître en Pharmacie : Laval, Montr.]
MRurSc	Master of Philosophy
MS	Master of Psychological Science
MSA	Master of Radiology
MSc	Master of Industrial Relations [Maître en Relations industrielles] : Montr.
MSc	Master of Rural Science
MSc	Master of Surgery
MScA	Master of Science in Agriculture [Maître ès Sciences agricoles : Montr.]
MScAg	Master of Science [Maître ès Sciences : Montr.]
MScAgr	Master of Sciences [Maître ès Sciences] : Laval, Ott.
MSc(Agr)	Master of Applied Science [Maître en Sciences appliquées] : Montr.
MSc(Agric)	Master of Science in Agriculture
MScAgric	Master of Science in Agriculture
MSc(Agric)	Master of Science in Agriculture
	Master of Science (Agriculture)
	Master of Science (Agriculture)
	Master of Science in Agriculture : Sind
	Master of Science in Agriculture
	Master of the Science of Agriculture : Ceyl.
	Master of Science in Agriculture
	Master of Science (Agriculture) : Lond.

MScApp	Master of Applied Science
MSc(Appl)	Master of Science (Applied)
MSc(Applied)	Master of Applied Science
MSc(Cer)	Master of Science in Ceramics
MScChemTech	Master of Science in Chemical Technology
MSc(ChemTech)	Master of Science in Chemical Technology
MScCom	Master of Accountancy [Maître en Sciences comptables] : Sher.
	Master of Commerce [Maître en Sciences commerciales] : Laval
MSc(CP)	Master of Science (Community Planning)
MScD	Master of Science in Dentistry
MSc(Dent)	Master of Science in Dentistry
MSc(Econ)	Master of Science in Economics
	Master of Science (Economics) : Lond.
MSc(Elec)	Master of Science (Electronics)
MScEng	Master of Science in Engineering
	Master of the Science of Engineering : Ceyl.
MSc(Eng)	Master of Science in Engineering
	Master of Science (Engineering) : Lond.
MSc(Engg) (Electrical Machine Design)	Master of Science (Engineering) (Electrical Machine Design)
MSc(EstMan)	Master of Science (Estate Management)
MScF	Master of the Science of Forestry
	Master of Science in Forestry : New Br., Melb
MScFor	Master of Science in Forestry
MSc(Glass)	Master of Science in Glass
MSc(Home)	Master of Science (Home)
MSc(Hort)	Master of Science in Horticulture
MSc in Arts	Master of Science in Arts
MSc(IndChem)Tech	Master of Science in Technology (Industrial Chemistry)
MScMed	Master of Science in Medicine
MSc(Médecine et Chirurgie Expérimentales)	Master of Science (Experimental Medicine and Surgery) [Maître ès Sciences (médecine et chirurgie expérimentales)] : Montr.
MSc(Medical)	Master of Science (Medical)
MSc(MetEngg)	Master of Science (Metallurgical Engineering)
MSc(Min)	Master of Science in Mining
MScN	Master of Science in Nursing
MSc(Nutr)	Master of Science (nutrition) [Maître ès Sciences (nutrition)] : Montr.
MScPhm	Master of Science in Pharmacy
MScRel	Master of Religious Science [Maître en Sciences religieuses] : Montr.
MScSoc	Master of Social Sciences [Maître en Sciences sociales] : Laval
	Master of Social Science [Maître ès Sciences sociales] : Montr.
MScSur	Master of Science in Land Surveying
MScTech	Master of Technical Science
MSc(Tech)	Master of Science (Technology)
MServSoc	Master of Social Service [Maître en Service social] : Laval
MSocSc	Master of Social Science
MSocSc(SW)	Master of Social Science (Social Welfare)
MSocSt	Master of Social Studies
MS(Ortho)	Master of Orthopaedic Surgery
MSP	Master of Science in Pharmacy
MSS	Master of Social Work [Maître en Service social] : Montr.
MSurv	Master of Surveying
MSW	Master of Social Work
MT	Master of Teaching
MTCP	Master of Town and Country Planning
MTech	Master in Technology
MTelE	Master of Telecommunication Engineering
MText	Master of Textiles
MTh	Master of Theology
MTP	Master of Town Planning
MTRP	Master of Town and Regional Planning
MusB	Bachelor of Music
MusBac	Bachelor of Music
MusBac	Bachelor in Music : Acad.
MusD	Doctor of Music

MusDoc	Doctor of Music
MusM	Master of Music
MusMas	Master in Music
MVSc	Master of Veterinary Science
PhD	Doctor of Philosophy [Docteur en Philosophie : Montré, Qtt] Doctor in Philosophy : Liv.
PhD(Lettres)	Doctor of Philosophy (Letters) [Docteur en Philosophie (lettres)] : Montr.
PhD(Médecine et Chirurgie Expérimentales)	Doctor of Philosophy (Experimental Medicine and Surgery) [Docteur en Philosophie (médecine et chirurgie expérimentales)] : Montr.
PhD(Philosophie)	Doctor of Philosophy (Philosophy) [Docteur en Philosophie (philosophie)] : Montr.
PhD(Psychologie)	Doctor of Philosophy (Psychology) [Docteur en Philosophie (psycholo- gie)] : Montr.
PhD(ScMédiévales)	Doctor of Philosophy (Mediæval Studies) [Docteur en Philosophie (sciences médiévales)] : Montr.
PhmB	Bachelor of Pharmacy
ScD	Doctor of Science
STM	Master of Theology
ThB	Bachelor of Theology
ThD	Doctor of Theology
ThM	Master of Theology
VetMB	Bachelor of Veterinary Medicine

C. ABBREVIATIONS FOR COMMONWEALTH UNIVERSITY DIPLOMAS AND CERTIFICATES

The list given below is not intended to include abbreviations for *all* diplomas, certificates and associateships awarded by Commonwealth universities or colleges of universities. It is restricted to those abbreviated forms which appear most frequently in the *Yearbook* and which consist entirely, or almost entirely, of initial letters; and whose meaning in many cases may therefore not be immediately obvious to the reader.

It should be noted that many of the qualifications listed below are awarded by only one university or college.

AA	Associateship in Arts
AAUQ	Associateship in Accountancy of the University of Queensland
ACom	Associateship in Commerce
AFCE	Associateship in Fuel Technology and Chemical Engineering
AGT	Associateship in Glass Technology
AKC	Associateship of King's College, London
AKC(NS)	Associateship of the University of King's College, Canada
AMInlsTech	Associateship in Minerals Technology
AOSM	Associateship of the Otago School of Mines
ARCS	Associateship of the Royal College of Science
ARSM	Associateship of the Royal School of Mines
ASc	Associateship in Science
AUA	Associateship of the University of Adelaide
CertTM	Certificate in Medical Technology (Certificat en Technologie médicale)
CHP	Certificate in Public Health (Certificat en Hygiène publique)
CLS	Certificate in Library Science
CPH	Certificate in Public Health
CS	Certificate in Statistics
CT	Teaching Certificate
CTHC	Certificate in the Teaching of Handicapped Children
CTTSC	Certificate in the Teaching and Training of Subnormal Children
DA	Diploma in Anaesthetics
	Diploma in Anaesthesia (Syd., Tor)
DAM	Diploma in Ayurvedic Medicine
DAP&E	Diploma in Applied Parasitology and Entomology
DBM	Diploma in Business Management
DCE	Diploma in Chemical Engineering
DCEP	Diploma of Child and Educational Psychology

DCH	Diploma in Child Health
DCP	Diploma in Clinical Pathology
	Diploma of Clinical Psychology (W. Aust.)
DDM	Diploma in Dermatological Medicine
DDPH	Diploma in Dental Public Health
DDR	Diploma in Diagnostic Radiology
DEE	Diploma in Electrical Engineering
DFA	Diploma in Foreign Affairs
DFM	Diploma in Forensic Medicine
DGC	Diploma in Guidance and Counselling
DGO	Diploma in Gynaecology and Obstetrics
DHDP	Diploma in Dental Public Health (Diplôme en Hygiène publique dentaire)
DHP	Diploma in Public Health (Diplôme en Hygiène publique)
DHVP	Diploma in Veterinary Public Health (Diplôme en Hygiène publique vétérinaire)
DIA	Diploma in International Affairs
DIC	Diploma of Membership of Imperial College of Science and Technology (London)
	Diploma in Industrial Chemistry (Canterbury, New Zealand)
DIH	Diploma in Industrial Health
DIM	Diploma in Industrial Management
DipALng	Diploma in Applied Linguistics
DipAM	Diploma in Applied Mechanics
DipAssSc	Diploma in Association Science
DipDP	Diploma in Drawing and Painting
DipFA	Diploma in Fine Arts
DipGT	Diploma in Glass Technology
DipHA	Diploma in Hospital Administration
DipHE	Diploma in Highway Engineering
DipHSc	Diploma in Home Science
DipL	Diploma in Languages
DipLA	Diploma in Public Administration
DipMFOS	Diploma in Maxial, Facial and Oral Surgery
DipNA&AC	Diploma in Numerical Analysis and Automatic Computing
DipNEd	Diploma in Nursery School Education
DipOL	Diploma in Oriental Learning
DipOrth	Diploma in Orthodontics
DipO&G	Diploma in Obstetrics and Gynaecology
DipP&OT	Diploma in Physiotherapy and Occupational Therapy (Diplôme en Physiothérapie et Occupation Thérapie)
DipQS	Diploma in Quantity Surveying
DipS&PA	Diploma in Social and Public Administration
DipSS	Diploma in Social Studies
DipSW	Diploma in Social Work
DipT	Diploma in Teaching
DipTCP	Diploma in Town and Country Planning
DipTP	Diploma in Town Planning
DipVFM	Diploma in Valuation and Farm Management
DJ	Diploma in Journalism
DLO	Diploma in Laryngology and Otolaryngology
DL&O	Diploma in Laryngology and Otolaryngology
DLW	Diploma in Labour Welfare
DME	Diploma in Mechanical Engineering
DMLT	Diploma in Medical Laboratory Technology
DMP	Diploma in Medical Psychology
DMR	Diploma in Medical Radiology
DMR(D) or (T)	Diploma in Radiology (radiodiagnosis or radiotherapy)
DMRE	Diploma in Medical Radiology and Electricity
	Diploma in Medical Radiology and Electrolaryngology
	Diploma in Medical Radiology and Electrology
DMR&E	Diploma in Medical Radiology and Electricity
DNE	Diploma in Nursing Education
DNSA	Diploma in Nursing Service Administration
DO	Diploma in Ophthalmology
DOMS	Diploma in Ophthalmic Medicine and Surgery
DOS	Diploma in Orthopaedic Surgery
DOT	Diploma in Occupational Therapy

DP	Diploma in Psychiatry
DPA	Diploma in Public Administration
DPD	Diploma in Public Dentistry
DPH	Diploma in Public Health
DPHN	Diploma in Public Health Nursing
DPM	Diploma in Psychological Medicine
DPSA	Diploma in Public and Social Administration
DRM	Diploma in Resource Management
DSA	Diploma in Social Administration
DTA	Diploma in Tropical Agriculture
DTC	Diploma in Textile Chemistry
DTCD	Diploma in Tuberculosis and Chest Diseases
DTD	Diploma in Tuberculosis Diseases
	Diploma in Tuberculous Diseases
DTM	Diploma in Tropical Medicine
DTM&H	Diploma in Tropical Medicine and Hygiene
DTR	Diploma in Therapeutic Radiology
DTRP	Diploma in Town and Regional Planning
DV	Diploma in Venereology
DV&D	Diploma in Venereology and Dermatology
DVPH	Diploma in Veterinary Public Health
FECM	Fellowship of the Elder Conservatorium of Music
IH	Diploma in Public Health Nursing (Diplôme d'Infirmière Hygiéniste)
JD	Diploma in Journalism
LCE	Licentiate in Civil Engineering
LDS	Licentiate in Dental Surgery
LMS	Licentiate in Medicine and Surgery
LP	Legal Procurator
LTh	Licentiate of Theology
LVS	Licentiate in Veterinary Science
SD	Diploma in Statistics
STh	Scholar of Theology
TD	Teaching Diploma
TDD	Diploma in Tubercular Diseases
	Diploma in Tuberculous Diseases

D. ABBREVIATIONS FOR ORDERS, DECORATIONS AND QUALIFICATIONS OTHER THAN UNIVERSITY DEGREES, DIPLOMAS AND CERTIFICATES

To save space, non-university distinctions are omitted from the staff lists, with the exception of honours conferred by the crown and certain fellowships of learned bodies as set out in this list (*see also* p. xii). In the case of physicians and civil, electrical and mechanical engineers one membership of the senior professional body as set out in this list may be included. It is regretted that considerations of space have imposed these limitations on the references which can be included to professional qualifications; no disparagement is, of course, intended of professional or other non-academic qualifications which cannot be included in this work.

The abbreviations used are not in all cases those adopted by the body concerned, *e.g.* FIP is used instead of FInstP.

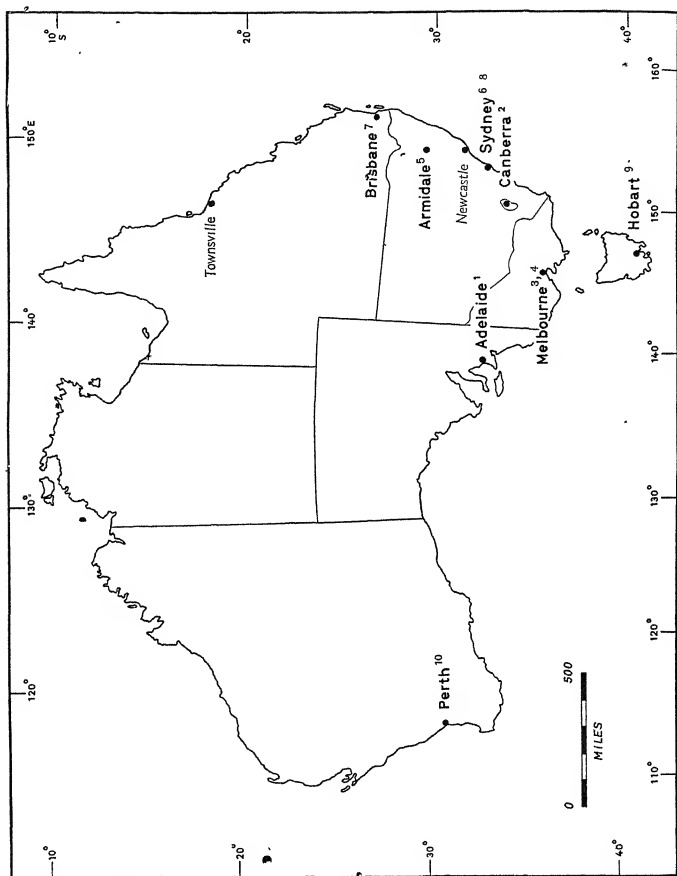
AFC	Air Force Cross
AFM	Air Force Medal
BEM	British Empire Medal
CA	Member of the Institute of Chartered Accountants of Scotland
CB	Companion of the Bath
CBE	Commander Order of British Empire
CD	Canadian Forces Decoration
CGM	Conspicuous Gallantry Medal
CH	Companion of Honour
CI	Imperial Order of the Crown of India
CIE	Companion of the Order of the Indian Empire

CMG	Companion of the Order of St. Michael and St. George
CSI	Companion of the Order of the Star of India
CVO	Commander of the Royal Victorian Order
DBE	Dame of the Order of the British Empire
DCM	Distinguished Conduct Medal
DFC	Distinguished Flying Cross
DFM	Distinguished Flying Medal
DSC	Distinguished Service Cross
DSM	Distinguished Service Medal
DSO	Companion of the Distinguished Service Order
ED	Efficiency Decoration
FAA	Fellow of the Australian Academy of Science
FAAAS	Fellow of the American Association for the Advancement of Science
FAAOS	Fellow of the American Academy of Orthopaedic Surgeons
FACD	Fellow of the American College of Dentists
FACP	Fellow of the American College of Physicians
FACS	Fellow of the American College of Surgeons
FAIA	Fellow of the American Institute of Architects
FAPS	Fellow of the American Physical Society
FASA	Fellow of the Australian Society of Accountants
FBA	Fellow of the British Academy
FBPaS	Fellow of the British Psychological Society
FCA	Fellow of the Institute of Chartered Accountants in England and Wales
FAA	Fellow of the Australian Institute of Cost Accountants
FCA(Aust)	Fellow of the Institute of Chartered Accountants in Australia
FCIC	Fellow of the Canadian Institute of Chemistry
FCIS	Fellow of the Chartered Institute of Secretaries
FDSRCS	Fellow in Dental Surgery of the Royal College of Surgeons of England
FDSRCSed	Fellow in Dental Surgery of the Royal College of Surgeons of Edinburgh
FFA	Fellow of the Faculty of Actuaries
FFARCS	Fellow of the Faculty of Anaesthetists of the Royal College of Surgeons of England
FFR	Fellow of the Faculty of Radiologists
FGS	Fellow of the Geological Society
FGSA	Fellow of the Geological Society of America
FIA	Fellow of the Institute of Actuaries
FIANZ	Fellow of the Institute of Actuaries of New Zealand
FIM	Fellow of the Institute of Metallurgists
FIP	Fellow of the Institute of Physics
FLA	Fellow of the Library Association
FLS	Fellow of the Linnean Society
FNi	Fellow of the National Institute of Sciences (India)
FNZIA	Fellow of the New Zealand Institute of Architects
FNZIC	Fellow of the New Zealand Institute of Chemistry
FPANZ	Fellow, Public Accountant, New Zealand
FPAS	Fellow of the Pakistan Academy of Sciences
FRACI	Fellow of the Royal Australian Chemical Institute
FRACP	Fellow of the Royal Australasian College of Physicians
FRACS	Fellow of the Royal Australasian College of Surgeons
FRaCS	Fellow of the Royal Aeronautical Society
FRAI	Fellow of the Royal Anthropological Institute
FRAIA	Fellow of the Royal Australian Institute of Architects
FRAM	Fellow of the Royal Academy of Music
FRANZ	Fellow, Registered Accountant, New Zealand
FRCM	Fellow of the Royal College of Music
FRCO	Fellow of the Royal College of Organists
FRCOG	Fellow of the Royal College of Obstetricians and Gynaecologists
FRCP	Fellow of the Royal College of Physicians of London
FRCPCan	Fellow of the Royal College of Physicians of Canada
FRCPed	Fellow of the Royal College of Physicians of Edinburgh
FRCPi	Fellow of the Royal College of Physicians of Ireland
FRCS	Fellow of the Royal College of Surgeons of England
FRCSCan	Fellow of the Royal College of Surgeons of Canada
FRCSed	Fellow of the Royal College of Surgeons of Edinburgh
FRCSI	Fellow of the Royal College of Surgeons in Ireland

FRCVS	Fellow of the Royal College of Veterinary Surgeons
FRFPGlas	Fellow of the Royal Faculty of Physicians and Surgeons of Glasgow
FRHistS	Fellow of the Royal Historical Society
FRIAI	Fellow of the Royal Institute of Architects of Ireland
FRIAS	Fellow of the Royal Institute of Architects of Scotland
FRIBA	Fellow of the Royal Institute of British Architects
FRIC	Fellow of the Royal Institute of Chemistry
FRMetS	Fellow of the Royal Meteorological Society
FRS	Fellow of the Royal Society
FRSCan	Fellow of the Royal Society of Canada
FRSL	Fellow of the Royal Society of Literature
FRSNZ	Fellow of the Royal Society of New Zealand
FRSSAf	Fellow of the Royal Society of South Africa
FSA	Fellow of the Society of Antiquaries
FSAA	Fellow of the Society of Incorporated Accountants and Auditors
FSALA	Fellow of the South African Library Association
FTCL	Fellow of Trinity College of Music, London
FTI	Fellow of the Textile Institute
GBE	Knight or Dame Grand Cross Order of the British Empire
GC	George Cross
GCB	Knight Grand Cross of the Bath
GCIE	Knight Grand Commander of the Indian Empire
GCMG	Knight Grand Cross of St. Michael and St. George
GCSI	Knight Grand Commander of the Star of India
GCVO	Knight or Dame Grand Cross of the Royal Victorian Order
GM	George Medal
GMBE	Grand Master Order of the British Empire
ISO	Imperial Service Order
JP	Justice of the Peace
KBE	Knight Commander Order of the British Empire
KCB	Knight Commander of the Bath
KCIE	Knight Commander of the Indian Empire
KCMG	Knight Commander of St. Michael and St. George
KCSI	Knight Commander of the Star of India
KCVO	Knight Commander of the Royal Victorian Order
KG	Knight of the Order of the Garter
KP	Knight of the Order of St. Patrick
KT	Knight of the Order of the Thistle
MBE	Member of the Order of the British Empire
MC	Military Cross
MEIC	Member of the Engineering Institute of Canada
MICE	Member of the Institution of Civil Engineers
MIEAust	Member of the Institution of Engineers of Australia
MIEE	Member of the Institution of Electrical Engineers
MIE(India)	Member of the Institute of Engineers, India
MIMechE	Member of the Institution of Mechanical Engineers
MM	Military Medal
MNZIE	Member of the New Zealand Institution of Engineers
MRACP	Member of the Royal Australasian College of Physicians
MRCP	Member of the Royal College of Physicians of London
MRCPEd	Member of the Royal College of Physicians of Edinburgh
MRCPI	Member of the Royal College of Physicians of Ireland
M(SA)ICE	Member of the South African Institution of Civil Engineers
M(SA)IEE	Member of the South African Institute of Electrical Engineers
M(SA)IME	Member of the South African Institution of Mechanical Engineers
MVO	Member Royal Victorian Order
OBE	Officer Order of the British Empire
OM	Order of Merit
QC	Queen's Counsel
RRC	Royal Red Cross
TD	Territorial Decoration
VA	Royal Order of Victoria and Albert
VC	Victoria Cross
VD	Volunteer Officers' Decoration
VRD	Volunteer Reserve Decoration

AUSTRALIA

- 1 University of Adelaide (p. 22)
- 2 Australian National University (p. 32)
- 3 University of Melbourne (p. 41)
- 4 Monash University (p. 55)
- 5 University of New England (p. 58)
- 6 University of New South Wales (p. 64)
- 7 University of Queensland (p. 73)
- 8 University of Sydney (p. 83)
- 9 University of Tasmania (p. 100)
- 10 University of Western Australia (p. 104)



The places named in black type are seats of university institutions as numbered overleaf

THE UNIVERSITIES OF AUSTRALIA

[Contributed by Professor C. Sanders, Professor of Education in the University of Western Australia]

HISTORY. The history of the Australian universities may, for convenience, be divided into five periods covering a span of over a century. The first period, which extended from the middle to the end of the nineteenth century, saw the growth towards nationhood of the Australian colonies. During this period four universities were established, and their earliest architecture in the Gothic style bears witness to their Victorian origins. The second period began with the federation of the colonies as Australian states, and the creation of the Commonwealth of Australia in 1901. It continued until the conclusion of the first world war when there were six universities in the state capital cities, the first three—Sydney (New South Wales), Melbourne (Victoria) and Adelaide (South Australia)—carrying the names of the cities themselves, and the second three—Tasmania (Hobart), Queensland (Brisbane) and Western Australia (Perth)—the names of the states in which they were established. The third period lasted from 1918 until the conclusion of the second world war. During its first seven years there was a post-war enrolment bulge followed by a short resettlement, after which the depression of the thirties limited development. Two university colleges, Canberra University College (1930) and New England University College, Armidale, New South Wales (1938), were established during the period.

In the main, the years between the wars were years of consolidation rather than of spectacular progress. Student enrolments in the universities and university colleges during 1939 numbered 14,500. This was a modest total; but Australia, in keeping with the university traditions of Great Britain, does not recognize many educational institutions as having university status in the American sense. However, some such institutions, as is explained later, are affiliated for various purposes to the universities.

The cessation of hostilities in 1945 marked the beginning of the fourth period of university growth and the admission to the universities of large numbers of financially assisted ex-service students. The period was associated with heavy enrolments in science, applied science and technology. By 1948, student numbers rose to 32,500, and although an easing occurred with the disappearance of assisted ex-service students, two or three years later, an increasing war-time and post-war birth-rate, migration on a larger scale than hitherto, and a constant need for scientists, technologists and teachers, heralded in the present and fifth period, in which there appears to be no limit to the possible future expansion of higher education in Australia.

Increasing financial difficulties among the universities, during the fourth period, gave rise in

1950 to an interim enquiry into Australian university finance, and then in 1957 to the enquiry conducted by the Committee on Australian Universities under the chairmanship of Sir Keith Murray, chairman of the U.K. University Grants Committee.

The fifth period began, when early in 1958 the Commonwealth government announced, after considering the Murray committee's report, that it would provide an extra £A21,400,000 during the triennium 1958-60. The provision of additional money was a first step towards university rehabilitation, and it was followed by a further decision during 1958 to create a permanent national body, to be concerned, amongst other things, with university finance. This body, in accordance with Commonwealth legislation passed in 1959, is now called 'The Australian Universities Commission' and its present chairman is Sir Leslie Martin, formerly of Melbourne.

Sydney (1850) and Melbourne (1853) are the most senior of the Australian universities. As institutions of higher learning dating from the colonial period, they are of approximately equal size and are also about the oldest of their kind in the Asian-Australasian hemisphere. The remaining universities established before the first world war include Adelaide (1874), which began with private endowments, Tasmania (1890), Queensland (1909) and Western Australia (1911). To these now need to be added the Australian National University, Canberra (1946), now incorporating the earlier Canberra University College, the University of New England (1954), which began as the second of the inter-war university colleges, the University of New South Wales, Sydney (1958), originally established in 1949 as the New South Wales University of Technology, and Monash University (1958) at Clayton, near Melbourne in Victoria, which began teaching in 1961. At the time of writing, therefore, there are ten universities in Australia, including three in New South Wales and two in Victoria (see also 'The Universities To-day', below).

Canberra University College was a Commonwealth creation in the Australian Capital Territory to provide for the higher education of civil servants and their families when the Commonwealth parliament moved from Melbourne to the national capital in 1927. This college in 1960 became the school of general studies (in arts and science) of the Australian National University. New England University College in northern New South Wales was, until its elevation, an offshoot of the University of Sydney. To-day it is the only institution of full university status outside an Australian capital city.

Nevertheless, there is a trend towards further

decentralization of university education in Australia. For example, Newcastle University College (1952) functions as a constituent institution of the University of New South Wales, while the University College of Townsville (1961), is a constituent institution of the University of Queensland.

CONSTITUTION. (a) *Structure of Universities.* The Australian universities are unitary teaching, examining and research institutions in the arts, social sciences, sciences and applied sciences; and among them to-day, at the undergraduate level, there is considerable emphasis on education for the professions. Most of the universities have residential colleges or halls, associated with them, in which tutorial assistance is provided for resident students, and sometimes for other students. Such teaching, however, is generally supplementary to the teaching of the universities which conduct the examinations and award the degrees. Historically, the universities are secular institutions although many of the residential colleges (located on the university sites) are religious foundations. Each university has certain characteristics which give it individuality. Some more than others have affiliations with governmental research institutes, agricultural colleges, forestry schools, technological institutes, technical colleges and teachers' colleges (see section below on 'Institutions of Higher Education other than Universities').

Among universities created since the second world war, more significant differences are to be observed than among universities of earlier establishment. The Australian National University, which began as a postgraduate research institution, was reorganized in 1960 to include undergraduate studies when Canberra University College became its school of general studies. The original university, which incorporated four postgraduate schools, was renamed the institute of advanced studies. At this level the university is substantially residential. Further, the University of New England, which for internal students is almost entirely residential, now makes provision for a large number of external students. Moreover, the teaching work of the predominantly scientific and technological University of New South Wales, which has power to incorporate constituent colleges, is undertaken not only at Newcastle but also in other industrial centres of the state which it serves. Since the war all the universities have greatly extended their departments of science, medicine, engineering and social science. Newer institutions have very strongly reflected the trend towards science and technology, while postgraduate studies and research now receive a much greater emphasis than formerly.

(b) *Internal Government.* Except for the Australian National University in the Australian Capital Territory, the universities are situated in the six Australian states, and mainly in or near the Australian capital cities. Although it is now becoming a practice to refer to these institutions as 'state' universities, they have a considerable

measure of independence, and their staffs are conscious of the importance of university autonomy and academic freedom (see 'Relationship to Government', below).

Some differences in the legislative and academic practices of the 'state' universities arise from their geographical separation as well as from their history. Most of them were created to serve local needs and Commonwealth interest in their welfare is of fairly recent origin. Even to-day they are regional institutions, and most Australian students expect to receive their undergraduate education within the boundaries of their own states.

Periodic royal commissions, or committees of enquiry, and the subsequent or independent actions of legislatures, both state and national, have altered from time to time the constitutions of the universities as well as the composition of their governing bodies. Each governing body in its own way is representative of community interests, and most governing bodies are also representative of the body of graduates and the academic staff. The Australian National University, since its reconstitution in 1960, has a board of studies responsible for the institute of advanced studies and a board responsible for the school of general studies. There is in addition a professorial board, which, although it has no executive powers, acts in an advisory capacity to the governing body, or council, of the university. The vice-chancellor serves as chairman of each of the academic bodies.

Among the universities some appointments to governing bodies are made by governors-in-council, and on a number of the governing bodies there are parliamentary members, or *ex-officio* members, such as a state director of education or an appointee of a state treasury, or co-opted members. In some universities the students are represented on the governing body, while at Melbourne and at the University of New South Wales, industry and commerce have specific representation. Among the universities the size of the governing bodies varies between nineteen and thirty-eight.

Except for Sydney, Queensland and Western Australia, the governing body of each university is called the council. At the three universities mentioned the term 'senate' is employed to denote the governing body.

Each Australian university, with the exception of the University of New South Wales, has a second body with a certain amount of responsibility in university government. This body, which mainly consists of university graduates, has several names. At most of the universities it is called convocation; but at Queensland it is called the council, and at Adelaide the senate.

The major function of the graduate body is to elect members to the governing body; but only at the University of Adelaide does the graduate body have a preponderance of representation. In other universities it provides about one-fifth to two-fifths of the membership. Although in none of the universities has the graduate body power to initiate legislation, it occasionally has

authority to approve, refer back or delay statutes and similar legislation referred to it by the governing body, and it may make suggestions regarding university welfare. In exercising its functions it sometimes works through standing committees.

The governing body, whether council or senate, generally meets at least once a month. It appoints standing committees or committees to deal with finance, investments, buildings, site development, staff and establishments, and so forth. Some of its work may be channelled through a general purposes committee, or there may be a joint committee of governing body and teaching staff to deal with matters of common policy. The powers, functions and procedures of governing bodies and graduate bodies are generally defined in university acts and statutes. When a governing body adopts statutes or by-laws, they must, as a rule, be submitted for final approval to a minister, governor or governor-in-council, or the particular legislation must be laid on the table of each house of parliament. Although the universities are not divorced from public criticism, most governing bodies have power without further reference to establish rules and regulations for ordinary university working.

The titular head of an Australian university is the chancellor, usually a citizen of distinction, who acts as chairman of the governing body and confers degrees and diplomas. He is supported by a deputy or pro-chancellor.

The vice-chancellor is central to the organization of university government. He provides the liaison between the various deliberative and executive bodies, both general and academic, although his powers and functions vary somewhat from university to university. The vice-chancellor holds a permanent appointment as chief executive officer of the university, and is a member of the governing body. At most of the universities the chairman of the chief academic body or a senior professor acts in the absence of the vice-chancellor. Some universities have created the position of deputy or pro-vice-chancellor. Melbourne has two pro-vice-chancellors who are senior members of the academic staff, while at Sydney, where the vice-chancellor is also the principal of the university, there is a deputy vice-chancellor as well as an assistant principal and a registrar. In the majority of the universities, however, the registrar is the senior officer under the vice-chancellor, although the chief financial officer exercises a considerable amount of authority. At each of the older universities the state governor acts as 'visitor'.

The chief academic body is generally called the professorial board and corresponds to some extent with the senate of a university in the United Kingdom. It consists of deans, professors and certain other staff, some of whom may be non-professorial heads of departments, or staff representatives below professorial rank. The board usually appoints its own chairman and it may work through committees such as a committee of deans. At the Australian National University, as mentioned previously, the vice-chancellor acts as chairman of the professorial board, and action has

been taken in Tasmania for the vice-chancellor to perform a similar function. Instead of a professorial board Adelaide has an education committee including chancellor, vice-chancellor, council members, heads of academic departments and the librarian.

University government usually works from below upwards, the chief academic body advising the governing body on academic matters or transmitting legislation for the governing body's imprimatur or further action. Below the senior academic body are the faculties in which degrees are awarded, or the boards of study responsible for diploma or similar courses. Many matters remain at faculty level and most of the rest are finally dealt with by the professorial board or its equivalent. The deanship is an honorary academic office in most universities; but sometimes the dean receives an allowance. At Melbourne there is a permanent dean of graduate studies.

RELATIONSHIP TO GOVERNMENT. The Australian universities, by legislative enactment or charter, are autonomous and self-governing, and as most of the earlier ones were created by colonial or state governments, they were, until 1958, mainly financed by state parliaments. The Commonwealth is directly responsible only for the Australian National University. However, the second world war made clear the national as well as the local importance of the state universities, and as already indicated, this led during the post-war period to an increasing Commonwealth interest and financial support, culminating in the Murray recommendations in 1957 and the creation of the Australian Universities Commission in 1959. Thus, at the present time, the universities are a Commonwealth as well as a state responsibility, the commission providing the link between the various parties.

Most university governing bodies, as explained above, contain members of the local parliament or appointees of the governor-in-council. A reason for parliamentarians, usually not drawn from one house or party, is to have spokesmen in the legislatures. Mostly the idea has worked well and it has tended to be incorporated in the constitutions of universities of recent creation.

Communication between a university governing body and a state government is usually by way of vice-chancellor and state premier or state minister of education. However, the work of universities generally lies outside the function of the minister of education, who is more directly responsible for the schools. Occasionally the chancellor will lead a deputation to the premier on an important issue. Each year the universities present a report on their activities to the local parliament. The first report of the Australian Universities Commission was presented to the Commonwealth government in 1960.

After the war the Commonwealth provided special grants to the universities to assist in the higher education of ex-servicemen. It also made increasing sums of money available for research.

It converted a war-time assistance scheme for reserved students into a broadly based system of scholarships, and it began to sponsor students from Asia and the Pacific islands under the Colombo Plan. This increase in Commonwealth activity, now supported by the Murray recommendations, and the existence of the Australian Universities Commission, has greatly added to the importance of the Australian Vice-Chancellors' Committee at the national level, even though the committee's function is consultative rather than executive. To-day the National Union of Australian University Students (N.U.A.U.S.) concerns itself with national as well as international issues affecting students. Thus it may be referred to by the appropriate authorities, or it may submit its own proposals for consideration. Within each university there is a student body which negotiates with university and other authorities on matters affecting student interests.

FINANCE. In the early post-war years the time-honoured method of university finance by state government grants, student fees and income from endowments began to collapse. During the war the Commonwealth gained control of income tax collection which previously had been shared with the states. After the war considerable numbers of ex-service students were admitted to the universities, and to assist their education the Commonwealth made special annual grants towards university running costs, and by agreement with the states it made capital grants for buildings. However, with the tapering off of Commonwealth moneys for ex-service students, most of the universities began to feel the effects of financial stringency. As a result, the Commonwealth, after negotiations with the states, appointed in 1950 the interim committee of enquiry into university finance, referred to earlier. This action represented a positive step towards a permanent co-operative relationship between Commonwealth and states in the maintenance and development of the universities.

After considering the interim committee's findings, the Commonwealth enacted legislation to make grants to the universities on the basis of £A1 for each £A3 of state grant and fees to a specified maximum. In 1951 the States Grants (Universities) Act was passed, and subsequent acts were passed in 1953, and annually from 1955 to 1958. With the enactment of the 1951 legislation, previous Commonwealth grants and subsidies for various purposes, including grants for research, were consolidated into a single amount to be paid to each university through its state government. However, following receipt of the Murray committee's report in 1957, the Commonwealth enacted new legislation in 1958 and 1959 so that there is now a triennial review of university finance undertaken by the Australian Universities Commission. As indicated previously, the initial triennial grant was made on the recommendation of the Murray committee, and a considerable part of it was regarded as emergency

money to compensate for existing deficiencies. The first report of the Australian Universities Commission was published in October 1960. It surveyed developments during the period 1958-60 and made recommendations for the triennium 1961-63. The financial recommendations of the commission were given effect in the States Grants (Universities) Act (1960) of the Commonwealth government.

In 1959, total university income from all sources (*i.e.* revenue and capital income for 'general' and 'special' purposes), amounted to £A25,495,897. The revenue income for 'special' purposes, included in the total sum, was £A3,369,824. The capital income ('general' and 'special'), for buildings and equipment, amounted to £A5,582,953 (Commonwealth, 49 per cent.; states, 41 per cent.; other, 10 per cent.).

Income from endowments and donations, included in the total university income, was £A1,469,368, or about 6 per cent. of the whole. But of the amount received from endowments and donations, £A1,137,470 was for 'special' purposes. Revenue and capital income for research, during the year, totalled £A1,573,288.

If 'general' revenue, for ordinary university running expenses only, is taken into account (*i.e.* when all capital income, as well as revenue income for 'special' purposes, is excluded), then the total amount available to the universities during 1959 was £A6,543,120 (Commonwealth, 34 per cent.; states, 47 per cent.; fees, 14 per cent.; other, 5 per cent.).

In 1959, Commonwealth and state governments provided 81 per cent. of the money needed to meet the day-to-day expenses of the universities, and they also provided 90 per cent. of the money for buildings and larger capital equipment.

PRE-UNIVERSITY EDUCATION (*see also* Appendix III). Students are usually admitted to the Australian universities between the ages of 17½ and 18½ years after twelve years of schooling although there is a trend in some states towards increasing the length of secondary education by a year. In at least three states children transfer to secondary education between the ages of 12 and 13 years after spending seven years in primary schools. Thus the children in these states usually receive five years of secondary education before being admitted to the universities. In Victoria the transfer is made a year earlier and in Queensland a year later so that children in these states receive six years or four years respectively of secondary education before entering the university. However, the pattern, organization and content of secondary education are being re-examined in most Australian states; and a rapidly increasing proportion of children is continuing at school between the ages of 15 and 17 years inclusive. In New South Wales, following the government's receipt of a report, prepared by a committee under the chairmanship of the director of education, Dr. H. S. Wyndham, a system of seven years of primary education, followed by five years of

secondary education, is to be replaced by six years of each, with transfer of children at about the age of 12 years.

In all states the examinations, often called 'public examinations', which mainly qualify for matriculation are held in November or December, while students tend to enter the universities in the following March. In New South Wales, pending the changes referred to above, and in Western Australia, matriculation is mostly gained by means of a leaving certificate examination set at the age of 17 to 18 years. Under the proposals of the Wyndham committee, however, it is intended that in New South Wales a school certificate examination will be held after four years of secondary education, followed by a higher school certificate examination, set two years later and linked with university matriculation. In Queensland the examination, at the age of 17 to 18 years, is called the senior public examination, and in Victoria and Tasmania it is called the matriculation examination. In South Australia matriculation is gained at a leaving certificate examination set to school pupils between the ages of 16 and 17 years; but there is at least one further year of study beyond the minimum matriculation level, and many intending university students take the additional year and sit for a leaving honours examination at the end of it. Victoria also has a leaving examination for school pupils between 16 and 17 years, and Tasmania a similar examination called the schools board examination. In Victoria and Tasmania the examinations mentioned are taken a year before the matriculation examination, and in Tasmania passes in the schools board examination may help to qualify for matriculation.

In all states except New South Wales the universities either conduct the public examinations or co-operate in their organization. In New South Wales the state department of education undertakes the responsibility. Some universities conduct a supplementary leaving or matriculation examination in February each year; but in each case where a 'matriculation examination' is set it is directly under a university matriculation board or the university's professorial board. In several states there still exists an examination between the ages of 15 years and 16 years. This is called either the junior examination or the intermediate examination, and sometimes passes in the examination exempt from certain matriculation requirements. In Queensland the junior examination is conducted by the state education department, while the university remains responsible for the senior public examination on which matriculation is based.

In the organization of Australian secondary education there are many independent secondary schools modelled on the pattern of the English grammar schools. Most of these schools are religious foundations. In the state educational systems, most secondary schools, although by no means all, are called high schools. Many of the older state secondary schools are of the academic type but newer schools are being erected on the

comprehensive principle adapted to Australian conditions. For many years more students entered the universities from independent (i.e. non-government) schools than from state (i.e. government) schools, and although this continues to be so in some states, the balance is changing, due to the rapid post-war growth of secondary education in every Australian state.

ADMISSION (see also Appendix III). Each university decides its own matriculation requirements; and though there is no general standard for Australia, the universities recognize each other's qualifications. However, where faculty prerequisites apply, or where entry is restricted, a matriculated candidate from another state usually needs to comply with the local conditions.

The universities of Adelaide, New England, New South Wales, Sydney, Tasmania and Western Australia, as well as the Australian National University and the Monash University, have a general matriculation with minimum or no faculty prerequisites. The University of New South Wales, however, recognizes in addition the qualifying examination of the department of technical education of the state of New South Wales. Universities, other than those mentioned, have prerequisites for entry to faculties. For admission to the University of Melbourne a student must pass the leaving examination to sit for the university's matriculation examination. He must also meet prerequisites, and at the time of writing, competitive selection for entry to most faculties also operates.

Some universities have subgraduate diploma or certificate courses to which admission may be gained on qualifications less than matriculation. Most universities have some provision for unmatriculated students not proceeding to a degree; but there are restrictions on this form of enrolment. All universities make provision for students of mature age, and various tests of fitness are used in mature age examinations, including tests of general ability as well as of English usage.

A student with United Kingdom matriculation is generally admitted to matriculant status without further examination unless he has prerequisites to meet or there is a faculty entry restriction. Ordinary G.C.E. passes and Scottish leaving lower passes are insufficient, so that all or some of local requirements must generally be met. Students from Asia with principal level passes in the Cambridge High School Certificate examination, or an equivalent qualification, have a reasonable chance of acceptance into unrestricted courses provided they meet any special conditions including an adequate command of English. However, most universities treat applications individually. Thus, although Melbourne specifies the qualifications from abroad it is prepared to accept for matriculation, it employs, as pointed out above, additional selection measures. Some universities prefer an Asian student to spend a period in an Australian school or technical college and, if possible, gain a local matriculation before university

entrance. Graduates of recognized universities are usually accorded matriculant status and such additional status as each university is prepared to grant.

There is a summary of admission requirements in Appendix III, but students from abroad must always obtain direct from the registrar of the university concerned up-to-date information about the precise conditions of entry to first degree or postgraduate courses.

To-day most universities insist that students shall have a clean bill of health to gain admission. Apart from Melbourne, there is a restricted entry to certain faculties and courses in other universities. This is particularly true in medicine. Restriction in medical and other faculties, giving rise to selection following matriculation, is due mainly to insufficient facilities to meet a rapidly increasing number of qualified applicants. In some cases intending medical students, as well as students wishing to enter other faculties, need to qualify for matriculation in the state in which the university is placed. To continue in a course, and especially a course with restricted enrolment, students, whether Australian or other, may need to show a satisfactory rate of progress.

Admission to postgraduate diplomas demands graduation from a recognized university and often passes in an undergraduate course relevant to the diploma course. The admission of overseas students to higher degrees is decided by each faculty and university. To proceed to the degree of master in faculties of arts or science, a bachelor degree with honours is normally needed. Graduates with a lesser qualification must undertake additional study and pass an examination at honours standard before being permitted to present a thesis. The PhD degree is awarded in a number of departments and faculties in the Australian universities (see 'Directory to Subjects of Study', below). For admission to the course for the PhD degree, students need to be graduates of senior standing with first or second class honours, and preferably with a master's degree or some research experience if their honours work has not involved research. Most universities have a special committee or board of studies to decide applications. Reference to the higher doctorates (LittD, LL.D, DSc, etc.) is made in the next section.

STRUCTURE OF DEGREE AND DIPLOMA COURSES.

The pattern of Australian degree courses has been influenced more by the pattern of degree courses in England and Scotland than elsewhere. But there are differences in the structure of degree courses as between Australia and the United Kingdom. For example, although Australia endeavours to keep its standards in line with those of the United Kingdom, it places more emphasis on the importance of the pass degree. Its universities usually have more faculties, and there is a considerable stress on professional education at the university level. In addition, most Australian universities, but not all, admit 'external' students, at least within their own states, as well as 'part-

time' internal students. There is also a tendency in Australia, especially in science and applied science, for honours courses to require an additional year of study, including research, while at the undergraduate level, examinations in most university departments tend to be set at the end of each academic year of study.

The 'unit' of study is an academic year's work (30 weeks approx.) in 'part' of a 'subject'; but a unit in the American sense would represent only a small, or very small, section of an Australian bachelor course. Australian universities, like universities in Britain, throw responsibility on the student, and hours in class are seldom an adequate criterion as to the quantity and quality of work expected to be covered by students. Although general-type courses exist, there is more emphasis on 'depth' and less on 'breadth' in the structure of Australian degree courses.

A 'faculty' consists of a broad division of knowledge (e.g. arts, science, medicine, engineering, etc.), including its teachers, and it may incorporate a single 'department' or many departments. In the former case the head of the department may by annual or periodic election become the permanent dean of the faculty. In the latter case the deanship tends to rotate. A department is responsible for a 'course of study' in a subject (e.g. English) or in a group of subjects (e.g. modern languages). The course of study is divided into stages or parts by 'years of study' (e.g. year I or part I or stage I of the course, etc.), the parts comprising the units of the course (e.g. English I, II, III), English I being a first-year unit and English III a third-year unit. Students are not generally allowed to proceed to units of higher grade until they have passed the corresponding units of lower grade. Sometimes after the first year a department sets out its offerings in the following manner: English IIA, English IIB, English IIC, etc., students being allowed to select two or more units in their second and third years. Occasionally there is selection in each year of study, honours candidates being required to take certain specified units or more units than pass candidates.

Departments often suggest 'schemes of study', and sometimes related departments combine to make 'schools of study'. A unit in the arts faculty may involve from two to four lectures a week plus assignments, tutorials, attendance at discussion groups and so on. The lecture requirement is similar in science, but four, six or more hours of laboratory work are required.

Nine units spread over three years are normally needed to complete a bachelor course in arts or science, but courses of ten units exist. A typical nine-unit course would include four units in the first year, three in the second and two in the third, an 'annual' examination being held at the end of each year. A science student taking a first-year unit might spend six or more hours a week in classwork. The same student taking a third-year unit would probably spend twelve or more hours a week, most of them in the laboratory.

Because of the time-consuming demands of science courses, there is to-day a trend in some universities to retain the three-year pass course but reduce the total academic load, while in other universities the lengthening of the course to four years (for pass and honours) is being attempted or debated.

The failure-rate in the first-year examinations is fairly high (of the order of 35 per cent on average). In Australia the first year of study tends to operate as a diagnostic year. This means that the first-year examinations function as internal selection examinations; but after their successful completion the chances of a full-time student completing his course are fairly good in most, though not in all, faculties. Many students take longer than the minimum period to complete their courses because they are required to repeat failed units or to repeat a year of study.

Practical tests in science subjects and oral tests in language subjects are employed as part of the annual examinations. Supplementary examinations may be allowed students who fail one or more units at an annual examination; but the type and time of examination vary with faculty and university, and not all faculties grant supplementaries. The terms used in grading passes also vary, such expressions as high distinction, distinction, honours, merit, credit, etc., being employed. The University of Melbourne and the Monash University use the term 'honours' to grade their units as well as their degrees.

The units in professional courses are greater in number than in arts and science, and often part-units are introduced in higher years of study. Lesser units or part-units are also found in diploma courses. Altogether there are fourteen faculties among the Australian universities, including arts and science, the basic pass courses of which are still of three years' duration in most of the universities. The length of professional courses for the bachelor degree varies from three to six years, e.g. agriculture, forestry, law, economics-commerce, education, music—mostly 4 years (although at Sydney economics takes 3 years and there is an alternative course of 3 years in agriculture); engineering, technology—4 or 5; architecture, veterinary science, dental science—5 (but at Sydney the dental course is 4 years); medicine—6. Some of the shorter courses require an additional year for honours, while professional courses usually begin with a pre-professional year in arts or science. In some faculties bachelor degrees are given only at the postgraduate level, for example, in divinity, and at Melbourne and Queensland in education. In divinity the major work may be undertaken at an affiliated theological college or even outside the university altogether (see section on 'Institutions of Higher Education other than Universities', below). The most common qualification in education is a diploma in education involving one year of professional training following a first degree; and in some universities promising candidates may proceed direct to the MEd degree on completion of the DipEd. There are first degree

courses of 4 years for the BEd degree at Sydney and Western Australia; but both these institutions award the DipEd to graduates. However, while at Sydney a graduate who has completed the DipEd may, under certain conditions, proceed direct to the MEd degree, in Western Australia he must first complete the BEd degree.

In some universities, where the content of honours courses during the second and third years in arts is more demanding than the content of pass courses, a student may succeed in completing a BA with honours in three years. But the trend of the times is towards a four-year honours course particularly in science. In law and medicine, honours are usually decided on the quality of the passes in the course. In basic faculties students are allowed in some universities to take either a pass course or an honours course, although students mostly need to obtain permission to undertake honours and many avoid doing so because of the extension of time. Students who do not gain honours may be credited with a pass degree, while some students who take only pass courses produce not undistinguished records. The increased subsidization of students to-day, especially in science, is encouraging a rising percentage to proceed to honours, and particularly when an additional honours year involves not only extra study but also an honours thesis based on research.

Australian students not studying full-time are frequently called 'part-course' students. Such students are 'part-time' in that they are mostly in full-time employment. Generally, students of this type are not allowed to enrol in all the units of a given academic year. Often the maximum permitted is two per year; hence the expression 'part-course'. Part-time enrolments in the faculties of arts and commerce cause lectures to be repeated in the late afternoon. Thus the minimum period for graduation of part-course students is often five or six years. Some universities allow the enrolment of part-time students who attempt a full-time course, but this is discouraged (see section on 'Students', below).

Further, most of the undergraduate teaching universities make provision for 'part-time external' students in remote country districts. Many such students are teachers in primary or secondary schools. The universities of Queensland and New England have special external departments, and Queensland makes provision for external 'overseas' students, some of whom are enrolled under the Colombo Plan. The University of Sydney, however, does not permit external enrolment (see section on 'Students', below).

The minimum period of full-time study for an MA or an MSc degree is five years from matriculation or two years from completion of the ordinary bachelor degree. But, if a BA or BSc degree with honours is obtained in four years, a student can usually proceed with his research and present his master's thesis without further examination. Pass graduates must undertake additional study and undergo further examination, usually

at honours standard, before being permitted to present their theses for the master's degree.

In professional faculties, including medicine, law, engineering and education, there are varying procedures at the master level, often involving additional examinations and sometimes professional experience. For graduates proceeding to higher degrees the current trend is towards the supervision of their work up to the degree of PhD.

To-day an increasing number of candidates with good honours degrees in science is by-passing the master's degree and proceeding direct to the degree of PhD, although some departments, particularly in the arts faculty, prefer students to take a master's degree first. The minimum period for the PhD degree is usually six years from matriculation, although seven or eight years of study and research are common among able students. The PhD is the highest award for supervised research work and the thesis usually needs to be acceptable for publication in whole or in part if its material has not already been published. Not all faculties or departments permit students to enter for the degree (see p. 18), which in most universities is controlled by a special committee. Students enrolled for the PhD degree may be required to take special units of study appropriate to their doctoral researches. Some universities allow part of the course to be carried out under approved supervision in other universities or research institutions, or else they permit a section of the work to be undertaken part-time. The higher doctorates (LittD, LLD, DSc, etc.) are generally awarded to-day to graduates of high standing for published work or independent research which represents a substantial contribution to knowledge. Most universities will not accept submissions for the higher doctorates unless candidates are their own graduates or unless they are members of staff.

Diploma courses vary in length from one to three years; some are awarded for subgraduate study and others for postgraduate study. Most diploma or certificate courses have a practical bearing and emphasize techniques and skills although they not infrequently include units which form part of degree courses. The practical work required is often carried out in affiliated or associated institutions such as hospitals, schools, teachers' colleges, technical colleges, conservatoriums, etc.

The 'practical' requirement in degree courses in science and applied science frequently includes 'field work' (e.g. in botany, zoology and geology), or experience on farms, in industry, or in engineering works. Sometimes practical experience of this type is 'sandwiched' into a course by using occasional terms or long vacations. More often, perhaps, the experience necessary for registration by professional bodies needs to be obtained after the completion of the degree course. At the University of New South Wales, students working for degrees in science, engineering, architecture and technology, not only take certain units in the

humanities and social sciences, but they also spend a part of each year in industry.

TEACHING STAFF. The head of a full university department is a professor; but in large departments there may be several professors, one acting as the administrative head with an appropriate title. In a university research institute one of the professors may hold an appointment as director. Departments of more junior standing are often administered by staff of sub-professional rank. Although in some universities it is not uncommon to fill professorial chairs by internal promotion, such positions are usually advertised. It is a more frequent practice to fill positions of lower rank by internal promotion from among lecturers with a good teaching or research record.

Professorships are regarded as permanent appointments although they may need to be confirmed after an initial term of service. Below professorial rank there are various gradings. The most junior positions (tutors, teaching fellows, graduate assistants, etc.) are often limited in tenure, with a maximum of three years. Demonstrators in science departments, according to their qualifications and experience, may hold short-term or long-term appointments, and some of the more senior posts rank with lectureships. In departments of science and applied science there are positions of varying seniority including laboratory manager and technical assistant, which may be held by graduates or by the holders of technical qualifications.

Most university teaching staff hold the rank of lecturer or senior lecturer, and above these positions there is a grading of associate professor or reader. These positions are regarded as permanent, even though they may be subject to periodic review. In the institute of advanced studies of the Australian National University the permanent grades include: professor, reader, senior fellow and fellow. Short-term appointments in the institute are made to the positions of senior research fellow and research fellow. Among the Australian universities, the normal retiring age for holders of permanent appointments is 65 years; but holders of more senior positions, and especially of chairs, occasionally have their appointments extended beyond this age.

The usual teaching methods include lecture, seminar and tutorial. In science departments these methods are supplemented by demonstration and laboratory class, and often by field work or work in a museum. The use of audio-visual aids, as well as mechanical aids to computation, is common to-day in most departments. Essays, assignments, dramatic work and methods of oral expression are frequent in arts departments, and some universities are experimenting with the idea of supplementing class work by television broadcasts. Because research and publication provide avenues for promotion an attempt is made to limit the teaching load of more junior lecturing staff even though enrolments in first-year classes are heavy. Some staff members devote their time to

research and to postgraduate students, but most lecturing staff, according to their teaching, tutorial and laboratory commitments, have about one-half of their time theoretically available for their own special pursuits. Heads of departments, however, need to give a considerable amount of time to administrative duties including attendance at faculty and other meetings.

Among the Australian universities academic salaries are reasonably comparable, and although some differences between them occur from time to time, the similarities are usually greater than the differences. For certain positions in medicine, law, engineering and science, the standard salaries may be supplemented, especially at the professional level. Allowing for some variation between institutions, at the time of writing, the approximate standard rates of salary being paid in Australia are: professor, £A4000 to £A4250, according to the institution concerned; reader or associate professor, between £A2900 and £A3300; senior lecturer, between £A2400 and £A3000; lecturer, between £A1640 and £A2450. Salaries at the lower levels are graded, while salaries at the higher levels tend to be fixed.

Sabbatical or study leave is granted to teaching staff of the grade of lecturer or above, and a number of the universities provide grants of varying amount, in addition to salary, to assist staff members to travel overseas during their leave. Financial provision is also made by some universities to help staff travel to conferences in Australia and occasionally abroad. All the universities have superannuation schemes, mostly on the lines of the F.S.S.U., although some schemes are more generous than others. Sydney, for example, grants its professors a retiring allowance in addition to benefits under a scheme similar to F.S.S.U. Its lecturing staff, on the other hand, mainly comes under the New South Wales state superannuation scheme. Among other amenities are staff houses or clubs at a number of the universities. Each university has its staff association, and there is a federal council of staff associations. Various universities own or rent houses or flats for the benefit of newly arrived staff, and most of them also have schemes to assist the purchase of homes by staff members.

The usual Australian practice is to advertise vacant teaching posts. There is no statutory restriction as to nationality and vacancies are generally open to candidates of foreign birth or nationality provided they have an adequate command of the English language. The advertisement of junior positions is frequently confined to Australia and New Zealand, but lectureships and more senior posts are very often advertised in the United Kingdom, and to a lesser extent in European countries and North America. With the most senior posts (e.g. professor or reader), even though positions are advertised, a university may retain the right to appoint by invitation after private enquiry.

In 1959, the total number of full-time and part-time teaching and research staff in the Australian universities (part-time staff in brackets) was:

professors, 322 (including 2 part-time); readers, associate professors, lecturers-in-charge, etc., 287 (3); senior fellows and fellows of the A.N.U., 42; senior lecturers and lecturers, 2811 (953); senior research fellows and research fellows of the A.N.U., 51, tutors, demonstrators, etc., 1305 (658). Total, 4818 (1618). In addition, professional library staff numbered 357 (4).

Disregarding part-time and visiting staff, as well as junior staff (tutors, demonstrators, teaching fellows, graduate assistants, etc.), who are mostly recruited locally, Australian full-time staff from lecturer to professor in 1959 consisted of: (a) Australian graduates without degrees from other countries, 49 per cent. (local degrees 27%, graduates from other Australian universities 22%); (b) graduates from the United Kingdom, 34 per cent. (London 9%, Cambridge 8½%, Oxford 7½%, other English 6½%, other U.K. 2½%); (c) graduates from other British Commonwealth universities, 4 per cent.; (d) graduates from continental Europe and the U.S.A. (in about equal proportions), 10 per cent; and (e) others, 3 per cent.

One-half of staff with U.K. degrees consisted of Australian graduates, who mostly studied at the doctoral level. As two-thirds of staff with U.S. degrees and one-quarter of staff with European degrees were also Australians, the total effect was that in 1959 seven full-time staff members out of ten were Australian born.

Further, the more populous universities of Sydney, Melbourne, Queensland and Adelaide appointed one-quarter of senior staff members, of the rank of reader or professor, from among those who did not hold degrees of other universities. In the less populous universities of Western Australia, Tasmania and New England such senior appointment by promotion was negligible. However, the first group of universities appointed 52 per cent. of senior staff from those holding degrees of the United Kingdom (three-fifths of them Australians), while the second group appointed 63 per cent. from the same source (three-quarters of them Australians).

STUDENTS. In 1959 there were 47,663 students enrolled in the Australian universities. Of these, 28,403 were full-time (60 per cent.); 14,306 were part-time (30 per cent.); and 4,864 were external (10 per cent.). The number of women was 10,763 (23 per cent.). In the total were 2230 graduates proceeding to higher degrees (5 per cent.) of whom 118 (including 10 women) were full-time students in the institute of advanced studies of the Australian National University. During 1959, 13,985 new students were enrolled (30 per cent. of total students). Of the new students 6 per cent. were age 16, 31 per cent. age 17, 20 per cent. age 18, 8 per cent. age 19 and 35 per cent. age 20 years and over. Most of the new students in the last category were part-time or external.

Part-time students usually study in the evening. However, there are part-time day students, and in some universities there are evening students who

take full-time courses. As mentioned earlier, part-time enrolments of this type are often called 'part-course' because students not enrolled full-time are generally limited in the number of units they may take in each academic year. Sometimes tutorial classes for external students are arranged in country districts or at convenient centres during vacations. This is done by the universities of New England and Queensland, while lecture notes, reference lists and not infrequently library books are sent to these students (see section below on 'Extra-Mural Classes and University Extension').

Australian students mainly live at home (72 per cent.). The reason is that the majority of the universities are situated in areas of greatest population density. The percentage quoted relates to the year 1960 when there were 41 residential colleges or halls. These, however, accounted for only 8 per cent. of students, while a further 20 per cent. were living in lodgings. At the University of New England almost all internal students are in residence. The Australian National University is largely a residential institution at the postgraduate level. University House provides accommodation for staff as well as for postgraduate students without children. A hall of residence has been built for undergraduates of the school of general studies, while for senior students with families, flats and houses are often available.

Most universities have a student union responsible for student amenities including refectory, club rooms, sports buildings and ovals, occasionally a theatre, and so on. Student affairs are generally under the control of a student representative council and there is a wide range of sporting, social, cultural, religious and political clubs and societies. At the University of Western Australia, student amenities as well as clubs and societies are under the control of a body called the guild of undergraduates, while at the Australian National University the social life of the staff and postgraduate students is centred in University House, which is also a residential college. At most of the universities there is an officers' training corps or university regiment and at a number of the universities there is also an air training squadron. During the short vacations inter-university cultural and athletic contests are held. The federal body dealing with student affairs is the National Union of Australian University Students.

Various welfare services exist for the benefit of students. A number of the universities have health services, and students to-day are required to undergo a compulsory X-ray examination of the chest. There are also student advisers, counsellors or guidance officers. At some of the universities there is a warden of students, or a similar officer of senior standing, who is responsible for the general administration of student buildings and affairs, and for the co-ordination of student activities. Most universities have an appointments board or an appointments officer; and various universities have special research officers or staff members, associated with

their administrations, or with their departments of education and psychology, to study student problems as well as the broader issues involved in university education at the present time. To-day many students take paid employment during their long vacations, and even at other times, to assist them financially with their studies. Some of the universities have housing officers; otherwise information is obtainable from the central administrations or the student bodies. In most universities the student bodies gather information about lodgings or hostel accommodation. Most student bodies publish their own newspapers, and a number of them also produce orientation booklets at the commencement of each year for the benefit of new students. To help such students, student organizations and teaching staffs co-operate during an 'orientation week' before lectures begin.

The general fee for membership of student bodies, including the use of union facilities, varies from a nominal amount up to about £A15 p.a. according to the amenities provided. Additional charges are made for individual membership of student clubs and societies. The fees charged by residential colleges and halls are separate from ordinary university fees, including the fees of the student bodies which are usually collected at enrolment time. College fees include residence during term as well as tutorial assistance. Additional costs are involved when a student remains in residence during vacation. The charges made by university colleges or halls of residence vary between £A150 and £A300 a year, and taking account of university and other fees, college students may need up to £A600 to carry them through a full academic year. The normal cost of reasonable lodgings or hostel accommodation varies from £A5 to £A7 per week. Tuition fees vary according to university and faculty; but in the Monash University there is an overall fee irrespective of faculty. In addition, the Monash University makes no compulsory charge for student amenities.

Most university students are Australian born; but since the war increasing numbers of students from migrant families have been enrolled. Many of these have come not only from the United Kingdom, but also from continental Europe. In addition, 2871 students from Malaya-Singapore, Hong Kong, India, Pakistan, Ceylon and Indonesia, as well as from other countries in south-east Asia and the Pacific, were enrolled in the universities during 1959 (including 521 under the Colombo Plan). The university enrolment represented about three-tenths of all overseas enrolments from primary school to university.

Of all students enrolled in the Australian universities (i.e. including full-time, part-time and external students) one-half are assisted by scholarships, bursaries, free places and other forms of financial assistance; but of full-time students only the proportion is four in five. Further, 78 per cent. of the total assistance available comes from Commonwealth and state governments, of which 44 per cent. is represented by scholarships

under the Commonwealth Scholarship Scheme*. This scheme was established by the Commonwealth government in 1951. Under it 4000 new scholarships are provided annually for open competition among intending students who wish to undertake courses in the Australian universities or in other approved institutions of higher education. The scholarships are awarded on merit; and because of rapidly rising numbers of qualified applicants selection standards have been increasing in severity. To qualify for the scholarships, applicants and their parents must be resident in Australia at the time of the award of a scholarship and must intend to remain permanently in Australia. The maximum annual value of an undergraduate award to a full-time student, including (i) fees, etc., and (ii) living allowance (the latter being subject to a means test) at a high-cost university, such as Sydney, and in a high-cost course such as medicine is:—*living at home*: fees, etc., £A120 plus living allowance £A234, total £A354; *living away from home*: fees, etc., £A120 plus living allowance £A364, total £A484. Many students, because of the means of their parents, do not qualify for the living allowance. Additional Commonwealth scholarships and fellowships of a value varying from £A600 p.a. to £A1250 p.a. are available for postgraduate study and research. A residential qualification attaches to these awards, as it does to the undergraduate awards. Financial assistance provided by the states to university students includes 'bonded' awards which bind recipients to subsequent professional service in the states concerned. Bonded awards are often made to prospective teachers, scientists and engineers.

There are relatively few awards open to overseas students although considerable numbers of Asian students have their higher education paid for by the Commonwealth under the Colombo Plan. Other students are assisted under Unesco schemes or by scholarships awarded to them in their own countries. However, greater opportunities for postgraduate study by overseas students are now available under what is called the 'Commonwealth Scholarship and Fellowship Plan' (see last paragraph of section on 'Inter-University Organizations', below). To-day, such bodies as the C.S.I.R.O., as well as banks and industrial organizations, provide scholarships for undergraduate and, especially, for postgraduate study, but few such awards are open to overseas students.

Estimates of future university enrolments indicate a rise from approximately 37,000 students of all types in 1957, at the time of the Murray report, to a total of approximately 88,000 by 1965. The latter figure represents an estimate made by the Australian Universities Commission in 1960.

ACADEMIC YEAR. The Australian academic year accords with the seasons of the southern hemisphere. On average the teaching year of

three terms begins in early to mid-March following the enrolment of students and, in a number of the universities, an orientation week. The first term ends about the second or third week in May. The second term begins during the first or second week of June and continues until the first or second week of August. The third term begins about the first of September and continues until the end of October or early November, after which the examinations, occupying a period of three weeks to a month, are held. In most universities the ordinary teaching and examining work of the year finishes about mid-December, when the long vacation begins (see next section).

VACATION COURSES. Regular summer sessions of the American type, with university credit for work successfully performed, are not held in Australia but 'summer schools' for extra-mural students are held; in most states these are not under direct university auspices even though university staff assist. Practical field work, and work in industry, hospitals or schools, required as part of degree or diploma courses, is often done during long vacations; similarly, staff and postgraduate students usually use these vacations to further their personal researches. At some universities seminars for students who study externally are arranged in the vacations. During vacations and occasionally during term, individual university departments arrange conferences or run in-service courses for the benefit of teachers, business and professional groups, farmers and those engaged in the social services or in scientific occupations. Sometimes this work is linked with adult education activity (see next section).

EXTRA-MURAL CLASSES AND UNIVERSITY EXTENSION. University extension lectures began at Sydney University in 1886 and at Melbourne in 1891. In 1913 workers' educational associations were formed in most states. Since then changes have taken place in the organization of the work which is now mostly known as adult education. However, where the W.E.A. continues, it is assisted by university staff in the conduct of tutorial classes, a university officer usually acting as director. The Sydney organization includes a joint committee of W.E.A. and university, the committee appointing the tutors and supervising their work. In Victoria adult education is under a statutory council set up by the state government, while the University of Melbourne has a separate extension board. In Tasmania there is a board of adult education with university representation, and a body of the same name exists in Queensland. Adult education in South Australia is shared between the University of Adelaide department of adult education, the W.E.A., which works in close collaboration with the university department, and the state education department. In Western Australia, where adult education is an extra-mural

* This Commonwealth [of Australia] Scholarship Scheme is completely distinct from the [British] Commonwealth Scholarship and Fellowship Plan (see pp. 14, 15 and Appendix A/II) in which many countries of the British Commonwealth participate.

function of the university, there is an adult education board responsible to the university senate. The University of New England also takes responsibility for adult education in its area, while the University of New South Wales conducts extension courses in scientific and technological subjects. At the Australian National University there is a department of adult education within the school of general studies. In states which have adult education boards, whether under direct university auspices or not, the responsible officer is usually called the director of adult education. For many of their courses the boards depend on the co-operation of university teachers, and during the summer schools held in January, professors and senior lecturers are among the leaders. The boards are not only responsible for classes and study groups in city and country, but they also sponsor drama, music, ballet, art, etc., and arrange for groups of performers as well as tutors and lecturers to tour country districts.

Although not specifically regarded as part of adult education or university extension, the comprehensive system of correspondence education developed for external university students (and even for overseas students) by the University of Queensland, supplemented by classes in country districts, represents a substantial extra-mural function. A somewhat similar service is conducted by New England, while some other universities have less ambitious schemes (see sections on the 'Structure of Degree Courses, etc.' and 'Students', above). Despite these particular activities, as well as tutorial class activities in New South Wales, adult education in most Australian states is not regarded as instrumental in the attainment of higher technical or academic qualifications, but rather as a means towards general cultural education, or assisting with leisure-time pursuits and skills.

INTER-UNIVERSITY ORGANIZATIONS. The present Australian Vice-Chancellors' Committee developed from a standing advisory committee created to deal with matters of common interest following a university conference in Sydney in 1920. Although it is still in the main a consultative body, the committee now performs many important functions where general university policy and the national interest are involved. This is especially true since the report of the Murray committee and the increased interest of the Commonwealth in the welfare of the universities, including the establishment of the Australian Universities Commission, of which Sir Leslie Martin, CBE, is the chairman. The secretary of the commission is Mr. D. St. A. Dexter and its address is Commonwealth Offices, Treasury Place, Melbourne, C.2, Victoria. The Vice-Chancellors' Committee keeps in touch not only with the Australian Universities Commission but also with the Commonwealth government and its departments, including the Commonwealth Office of Education and the Commonwealth Scholarships Board on matters particularly relating to the

[British] Commonwealth Scholarship and Fellowship Plan. The committee usually meets five or six times a year. Its present chairman is Professor J. P. Baxter, CMG, OBE, vice-chancellor of the University of New South Wales. The deputy chairman is Mr. S. L. Prescott, OBE, vice-chancellor of the University of Western Australia, and the secretary is Brigadier R. G. H. Irving, CBE, University of Melbourne, Parkville, N.2, Victoria. Under the committee's auspices an annual conference of university registrars is held, usually in the middle of each year.

The staff associations of the universities have combined to establish a Federal Council of University Staff Associations of Australia. The president of the Federal Council, which came into existence in 1952, is Professor R. H. Thorp, department of pharmacology, University of Sydney. The hon. secretary/treasurer is Mr. K. D. Buckley, department of economics, University of Sydney. The council publishes a journal called *Vestes*; and in 1961 the Australian Vice-Chancellors' Committee, in co-operation with the Federal Council, organized the first of a series of biennial conferences of the Australian universities.

The National Union of Australian University Students dates from 1937, when, during an Australasian university conference at Adelaide, it was decided by the representatives of the student bodies to form a union on the lines of the union in England. The N.U.A.U.S. has its own council to which the student bodies send their delegates. Each year the N.U.A.U.S. holds a congress in January. Office-bearers, at the time of writing, are: Mr. R. J. Wallace, N.U.A.U.S. Office, University of Sydney (president), and Mr. P. Walmsley, N.U.A.U.S. Office, Newcastle University College (secretary/treasurer).

To administer the scheme by which students granted reservation for university study during the war were financially assisted, the Commonwealth government established a Universities Commission in 1942. However, with the creation of the Commonwealth Office of Education by means of the Commonwealth Education Act of 1945, the Universities Commission became responsible for the Commonwealth Scholarship Scheme as its major function. Then in 1959, to avoid confusion with the new Australian Universities Commission, an amendment was made to the Education Act whereby the name of the older commission was changed to the Commonwealth Scholarships Board. The director of the Commonwealth Office of Education is Mr. W. J. Weeden, who is also chairman of the Commonwealth Scholarships Board. The address of the Commonwealth Office of Education and of the Commonwealth Scholarships Board (the secretariat of which is provided by the C.O.E.) is 50 Myler Street, North Sydney, or Post Office Box 189, North Sydney, New South Wales. There are branch offices of the C.O.E. and of the Commonwealth Scholarships Board in each state except Tasmania. As a result of the legislative changes in 1959, the Commonwealth Office of

Education and the Australian Universities Commission function as separate entities under the prime minister's department. Before the establishment of the Australian Universities' Commission, the Commonwealth Office of Education was responsible for Commonwealth grants to the universities under the States Grants (Universities) Act.

One of the continuing activities of the Commonwealth Office of Education is responsibility for the university training of students from south and south-east Asia. The C.O.E. is specially charged with the responsibility for Colombo Plan students. It is also responsible for the postgraduate students who come to Australia under the [British] Commonwealth Scholarship and Fellowship Plan, which resulted from the conference at Oxford in 1959.

THE UNIVERSITIES TO-DAY. By 1960 the universities of Sydney and Melbourne had each enrolled more than 11,000 students, a total above the expected optimum of these institutions; and other universities had shown a corresponding growth. After the conclusion of the second world war none of the universities experienced a settling-down period. Research deficiencies, which became evident during the war, an increasing demand for higher professional, technological and academic qualifications, new national and international responsibilities, and an accelerated industrialization have all affected the growth and pattern of Australian higher education, and especially of the universities. During the past few years, apart from large-scale power and water schemes, defence projects involving also the United Kingdom, and nuclear research and automation, there has been an increasing tide of adolescent youth remaining longer in the secondary schools. This particular evidence of rising educational expectations has not only created problems of organization and staffing in the schools, but it has also caused the universities to be flooded with applicants qualified for admission according to the accepted matriculation standards. In this regard, it has not been easy to apply educational solutions, characteristic of countries with long traditions, small land area and high population density, to a continent, such as Australia, with shorter traditions, large land area and low population density. Nevertheless, the University of Melbourne has lately found it necessary to introduce post-matriculation selection, to cope with numbers, of a type which is reminiscent of post-war Britain.

Reference has already been made to the increasing commitment of the Commonwealth government in university finance since the war. A major effect of this development has been a general acceptance, during the past ten years, of the view that the universities can now function successfully only on the basis of a joint Commonwealth-states responsibility. This attitude is to be seen in the recommendations of the Murray committee of 1957 and in the first report of the Martin Commission of 1960, the financial pro-

posals of which for the triennium 1961-63 were accepted in full by the Commonwealth government. The charter of the Martin Commission required that it should (1) act as a liaison body between Commonwealth, states and universities; (2) report on university development every three years; and (3) make recommendations to the governments concerned on university finance.

Developments in the Australian universities since the report of the Murray committee have been considerable. More money has been available for staff and other expenses, salaries have been raised, many new buildings have been started or erected, new equipment has been supplied, research work has been extended, new departments established and new universities created; this growth has not been without controversy. Symptomatic of latest developments is the creation of the University of New South Wales in 1958 from the earlier New South Wales University of Technology, the establishment in the same year of the Monash University in Melbourne, the change in status and organization of the Australian National University, Canberra (in 1960) and the beginnings of university decentralization in Queensland with the opening of the University College of Townsville (in 1961).

In March 1961, the Monash University opened with 350 students in the faculties of arts, economics and politics, engineering, medicine and science. When fully developed it is expected that the Monash University will have about 8000 full-time students and 4000 part-time students. Also early in 1961 the government of Victoria appointed a committee to survey university needs during the next decade, and it asked the committee to report whether a further university should be established in Victoria, or whether there should be university colleges in city and country.

Apart from the above developments, a conference of university staff members, who had been conducting research into post-war problems of university education in Australia, was held at the University of Melbourne in July 1960. Later in the same year, when the Australian Vice-Chancellors' Committee considered the conference report, the committee, with the co-operation of the Federal Council of University Staff Associations, agreed to hold biennial, and broadly based, university conferences in Australia. This decision reflects the model of the Home Universities Conference of Great Britain. At the time of writing it is proposed to hold the first of the series of conferences at the University of Sydney in August 1961.

INSTITUTIONS OF HIGHER EDUCATION OTHER THAN UNIVERSITIES. It has been mentioned already that there are Australian institutions of higher education which are not regarded as university institutions (e.g. technical colleges, schools of mines, agricultural colleges, forestry schools and teachers' colleges) although a number of them are affiliated to or are associated with universities. In Australia there are no private or

denominational universities, and, with one exception (*see below*), only the universities have the right to award the degrees of bachelor, master and doctor. Non-university institutions award certificates, diplomas or associateships; but some higher level institutions award fellowships and similar qualifications. Entrance to most diploma courses is at a lower standard than that of matriculation and is often at the level of the junior or intermediate certificate examinations (*see Appendix III*). However, there are varying admission standards according to the types of course students elect to take. Some courses (*e.g.* architecture) normally require university matriculation or its equivalent, while holders of certain college diplomas may be granted university matriculation, or in addition they may receive partial credit towards university degrees.

Agricultural Colleges. The colleges of agriculture such as Gatton (Queensland), Hawkesbury and Wagga (N.S.W.), Longerenong and Dookie (Victoria), Roseworthy (South Australia) and Muresk (Western Australia) provide courses up to four years in length in the different aspects of agriculture. Their admission standards are generally below that of matriculation although most of them are associated with the universities in the practical or the experimental aspects of agriculture. A number of the agricultural colleges assist in the training of teachers for rural communities.

Conservatoriums of Music. There are conservatoriums at the universities of Adelaide and Melbourne and degrees in music as well as diplomas are awarded. In these institutions the standard of admission to major courses is at the level of matriculation, but at Adelaide many conservatorium students, studying to become performers or teachers of music, are admitted below the matriculation level. In New South Wales and Queensland there are state conservatoriums separate from the universities. These admit students below the normal university entrance standard, although applicants need to possess practical qualifications in music.

Forestry Schools. The best known school of forestry is the Australian Forestry School in Canberra and degrees in forestry are awarded to students who spend part of their time in a university science faculty and part of it at the Australian Forestry School. The University of Melbourne also recognizes the Creswick Forestry School in Victoria for the same purpose.

Service and Administrative Colleges. At the more advanced level students of the royal naval, military and air force colleges require not less than the equivalent of matriculation to be admitted, while certain college courses in science and mathematics are accepted by the universities as a part qualification towards degrees. The Australian School of Pacific Administration (Sydney), under the Commonwealth department of territories, trains students in the various aspects of service and administration in dependent areas. There is also an Australian Administrative Staff College

(Melbourne) for the higher level training of business and other executives.

Teachers' Colleges. The standard of admission to the teachers' colleges varies somewhat from state to state but most students are recruited at the level of the school leaving certificate (*see Appendix III*) and many of these also hold university matriculation. The standard course for primary teachers is of two years, but matriculated students, preparing for secondary teaching, who attend the universities, may spend three, four or five years as 'college' students. There are shorter courses for certain categories of student, and not infrequently the colleges assist in the training of graduates for the DipEd awarded by the universities. To-day there is an increasing tendency for the work of the colleges to be integrated with that of the universities. This is being done by co-operative association or by affiliation, and in Tasmania by incorporation in the university framework.

Technological and Technical Institutions. Admission to diploma and similar courses in technical colleges is usually at the level of the junior or intermediate examinations (*see Appendix III*), although some courses (*e.g.* architecture) require the leaving certificate, matriculation or the equivalent of these qualifications. The more advanced teaching in the colleges and schools of mines, especially in the physical sciences and mathematics, is often at a standard which permits candidates to enter for university examinations, and occasionally passes in the examinations of the institutions mentioned provide a partial exemption from university degree requirements. Although many diploma students are enrolled full-time, the technical colleges admit considerable numbers of part-time students. Technical diploma courses in science and engineering, which are of three to five years' duration, have a more practical bearing than degree courses. In 1956 the University of Adelaide joined with the South Australian Institute of Technology to enable degrees in technology to be awarded by the university. In Western Australia the Kalgoorlie School of Mines is associated with the university faculty of engineering in the award of university degrees in mining engineering. The trend of the times is to refer to 'technological education' or 'higher technological education' when emphasis is placed on the more advanced and scientific aspects of what was formerly known as 'technical education'; and while some areas of technological education are now established as functions of universities, others are being developed within the framework of institutes or colleges of technology or else in departments providing a higher level of teaching in technical colleges. In recent years the Royal Melbourne Technical College has become the Royal Melbourne Institute of Technology, and similar changes are occurring elsewhere. An earlier development, as indicated previously, was the establishment of the New South Wales University of Technology in 1949. This was done by streaming off the more advanced courses at the Sydney

Technical College. However, in 1958, the N.S.W.U.T. became the University of New South Wales.

Theological Colleges. The teaching of theology is mainly done in denominational colleges or seminaries, independent of the universities, although some of the residential colleges affiliated to the universities and administered by the churches assist in the work. The standard of admission approximates to the level of the leaving certificate and it may be at matriculation level. Teaching in some of the colleges is at a standard comparable with that of university undergraduate courses. Among the theological colleges is the Australian College of Theology and the Melbourne College of Divinity. The latter institution awards the degrees of BD and DD.

Research and Professional Institutions. The best known independent medical research foundation in Australia is the Walter and Eliza Hall Research Institute in Melbourne which is linked with the Royal Melbourne Hospital as well as with the University of Melbourne. However, the largest single research organization in the country is the government-controlled Commonwealth Scientific and Industrial Research Organization which has close affiliations with the universities, including C.S.I.R.O. laboratories on most university sites. At the postgraduate level there are royal Australasian colleges of physicians and surgeons. There are also professional associations of lawyers, engineers, scientists and teachers (e.g. the Law Society, the Australian Institution of Engineers, the Australian Academy of Science and the Australian College of Education). These institutions admit to membership as a mark of professional recognition, and in some cases to fellowship as an award of special distinction.

FURTHER INFORMATION (see also Appendix VI and the 'Publications' section in each university entry below). Reference works on Australian universities:

Yearbook of the Commonwealth of Australia, No. 46, Chapter XV, Section 8, Universities. (Govt. Printer, Canberra, for Commonwealth Bureau of Census and Statistics, 1960.) Reviews recent history of the Australian universities and provides statistical information for the year 1958. The history, growth and development of the Australian universities may be traced by referring to earlier editions of the *Yearbook*.

Vestis (Journal of the Federal Council of University Staff Associations in Australia). Contains articles of current interest about the problems of the Australian universities.

Review of Education in Australia 1948-1954. R. M. McDonnell, W. C. Radford and P. M. Staurenghi. (Brown, Prior and Anderson, Melbourne, for Australian Council for Educational Research, 1956.) Two sections of the book review the work of the Commonwealth Office of Education, the original Universities Commission and the Australian universities during the period named.

Submission by the Australian Vice-Chancellors' Committee to the Committee on Australian Universities. (Melbourne University Press for the Australian Vice-Chancellors' Committee, July 1957.) Examines the role, needs and functions of the university in the Australian community.

Adult Education in Australia. Fred Alexander. (Cheshire, Melbourne, 1959.) A short critical account of past and present trends in Australian adult education.

The Development of Universities in Australia. W. F. Connell. (In *The Yearbook of Education*, Evans Bros., London, 1959.) A critical article on the developmental and educational problems of the universities.

The Humanities in Australia: A Survey with Special Reference to the Universities. Edited by A. Grenfell Price. (Angus and Robertson, Sydney, for the Australian Humanities Research Council, 1959.) Reviews from the viewpoint of the humanities the past and present history of the universities.

Reports and statistical information:

Report of the Committee on Australian Universities. (Commonwealth Govt. Printer, Canberra, Sept. 1957.) Report of the committee, under the chairmanship of Sir Keith Murray, on the function of university education and the post-war problems of the Australian universities.

Report of the Committee Appointed to Survey Secondary Education in New South Wales. (Govt. Printer, Sydney, 1958.)

Report of a Conference on University Education, July 6-8, 1960. (Australian Vice-Chancellors' Committee, Melbourne, 1960.) Conference findings based on research into some of the post-war problems of Australian university education, including the problems of student success and failure.

Report of the Australian Universities Commission on Australian Universities, 1958-1963. (Commonwealth Govt. Printer, Canberra, Oct., 1960.) The first report of the commission reviews progress since the report of the Murray committee and makes recommendations for the triennium 1961-63.

Adult Education in Australia. Bulletin No. 30. (Commonwealth Office of Education, Sydney, 1957.)

Agricultural Education in Australia. Bulletin No. 23. (Commonwealth Office of Education, Sydney, 1959.)

[Australian] University Statistics, 1959. Part I, Staff, Students and Degrees Conferred; Part II, Libraries and Finance. (Bureau of Census and Statistics, Canberra, 1960.)

Education in Australia. Bulletin No. 20. (Commonwealth Office of Education, Sydney, 5th edition, 1959.)

External Tuition by Australian Universities. Bulletin No. 21. (Commonwealth Office of Education, Sydney, 1957.)

Fees of Universities and Residential Colleges in Australia. (Commonwealth Office of Education, Sydney, 4th edition, 1960.)

Health Services in Schools and Universities. Bulletin No. 12. (Commonwealth Office of Education, Sydney, 1956.)
Higher Education in Australia: A Directory of Courses. (Commonwealth Office of Education, Sydney, 2nd edition, 1959.)
Matriculation Requirements of Australian Universities. Bulletin No. 33. (Commonwealth Office of Education, Sydney, 1959.)

Secondary School Examinations in Australia. Bulletin No. 25. (Commonwealth Office of Education, Sydney, 1958.)
Some Opportunities for Post-Graduate Study at Australian Universities. (Commonwealth Office of Education, Sydney, 1961.)
Technical Education in Australia. Bulletin No. 31. (Commonwealth Office of Education, Sydney, 1958.)

DIRECTORY TO SUBJECTS OF STUDY

FIRST DEGREE COURSES, ETC. The table on pp. 20-21 shows the main courses and subjects of study in the Australian universities. The symbol ✓ is used to indicate *major* courses, i.e. those studied for two or three years for a bachelor degree. The symbol ✓ indicates *minor* courses forming part of the course for a bachelor degree. Diploma courses, which are referred to below, are not included in the table.

Newcastle University College (see p. 69) prepares students for the degree and diploma courses of the University of New South Wales. Instruction in certain courses towards degrees and diplomas of the University of N.S.W. is provided at Wollongong, Broken Hill and Orange in New South Wales.

HIGHER DEGREES. The PhD is awarded by the universities as follows. *Adelaide*: in agriculture, architecture, arts, economics, engineering, law, medicine, science. *Australian National University*: in each of the research schools of the institute of advanced studies and in departments of the school of general studies. *Melbourne*: in all faculties except music. *Monash*: in science. *New England*: in all faculties. *New South Wales*: in applied science, architecture, commerce, engineering, science. *Queensland*: in all faculties. *Sydney*: in agriculture, architecture, arts, dentistry, economics, engineering, science, veterinary science. *Tasmania*: in arts, engineering, science. *Western Australia*: in agriculture, arts, dental science, education, engineering, medicine, science.

DIPLOMA AND CERTIFICATE COURSES. New England and Western Australia do not award subgraduate diplomas although the latter co-operates in the award of several diplomas by outside bodies. Other universities award diplomas at subgraduate and postgraduate levels and some also co-operate in the award of diplomas by outside bodies. The two courses in which diplomas are mainly postgraduate are education and medicine. The University of New South Wales offers postgraduate diplomas in certain technological fields as well as in librarianship.

Education. Awarded by Adelaide, Melbourne, New England, New South Wales (Newcastle University College), Queensland, Sydney, Tasmania and Western Australia. Subgraduate

awards are also made by Adelaide, Queensland and Tasmania.

Medicine. Melbourne and Sydney award diplomas in anaesthesia, diagnostic radiology, gynaecology-obstetrics, laryngology, ophthalmology (also Queensland), psychological medicine (also Queensland), public health, therapeutic radiology. Sydney also awards diplomas in clinical pathology, dermatological medicine and tropical medicine and hygiene.

Other diploma or certificate courses:

Accountancy: Queensland. *Agricultural Chemistry*: Sydney. *Agricultural Economics*: Sydney. *Agricultural Entomology*: Sydney. *Agricultural Genetics*: Sydney. *Agricultural Microbiology*: Sydney. *Agricultural Science*: Sydney. *Agriculture*: Melbourne. *Animal Husbandry*: Sydney. *Anthropology*: Sydney. *Architecture*: Melbourne, Queensland. *Arts and Education (AUA)*: Adelaide. *Building*: New South Wales*. *Clinical Psychology*: Western Australia. *Commerce*: Queensland. *Dairy Husbandry*: Sydney. *Dietetics*: Melbourne. *Divinity*: Queensland. *Educational Administration*: New England. *Educational Psychology*: Queensland, Western Australia. *Food and Drug Analysis*: New South Wales. *Fuel Science*: New South Wales. *Highway Engineering*: New South Wales. *Industrial Engineering*: New South Wales. *Journalism*: Melbourne, Queensland. *Librarianship*: New South Wales*. *Music*: Adelaide, Melbourne, Queensland. *Numerical Analysis and Automatic Computing*: Sydney. *Occupational Therapy*: Queensland. *Optometry*: Adelaide*. *Melbourne**, *Western Australia**. *Plant Pathology*: Sydney. *Pharmacy*: Adelaide, Melbourne*. *Physical Education*: Adelaide, Melbourne, Queensland, Tasmania, Western Australia*. *Physiotherapy*: Adelaide, Melbourne*, Queensland, Western Australia*. *Poultry Husbandry*: Sydney. *Psychology*: Melbourne, Sydney. *Public Administration*: Adelaide, Melbourne, Queensland, Tasmania. *Public Health Dentistry*: Sydney. *Quantity Surveying*: New South Wales*. *Social Studies or Social Work*: Adelaide, Melbourne, New South Wales, Queensland, Sydney. *Sugar Science*: Queensland. *Sugar Technology*: Queensland. *Teaching and Training of Subnormal Children*: Queensland. *Town and Country Planning*: Melbourne, Sydney. *Wool Technology*: New South Wales.

* Awarded by outside bodies with the co-operation of the universities concerned

STATISTICS

[Sources: Bureau of Census and Statistics, Canberra and Commonwealth Office of Education]

TOTAL STUDENT ENROLMENTS in 1959 (women students in brackets) were: *For higher degrees*, 2230 (277). *For bachelor degrees*: agriculture, 865 (78); architecture, 789 (81); arts, 10,911 (4760); commerce-economics, 4264 (340); dentistry, 725 (65); divinity, 10 (1); education, 701 (171); engineering, 3309 (3); law, 2016 (212); medicine, 4441 (644); music, 157 (114); science, 5019 (1058); technology, 435 (0); veterinary science, 419 (32). *Diplomas postgraduate*, 1007 (389) including 836 enrolled for the DipEd. *Diplomas subgraduate*, 6405 (1288) including engineering, 1642; science, 1450; pharmacy, 994; arts and education, 357; architecture, 393. *Certificates*, 1575 (373). *Miscellaneous*, 2777 (1014). Total students, 48,055 (10,900) less correction for double enrolments, etc. - 392 (- 137) amounted to 47,663 (men, 36,900; women, 10,763). The total of 47,663 included 14,396 part-course or part-time students and 4864 external students.

NEW ADMISSIONS in 1959. The total enrolment of new students was 13,985 (men, 10,053; women, 3932).

OVERSEAS STUDENTS (1959). *Total enrolments* (men students and graduate students in brackets): Africa, 10 (m. 10, gr. 3); America, 41 (m. 31, gr. 20); Borneo/Brunei/Sarawak, 121 (m. 107, gr. 1); Burma, 29 (m. 24, gr. 12); Cambodia, 1 (m. 1, gr. 0); Ceylon, 21 (m. 18, gr. 5); Europe, 6 (m. 4, gr. 4); Fiji, 103 (m. 91, gr. 2); Hong Kong/Macao/Formosa, 475 (m. 415, gr. 23); India, 60 (m. 58, gr. 29); Indonesia, 187 (m. 173, gr. 19); Japan, 5 (m. 4, gr. 4); Korea, 1 (m. 0, gr. 0); Malaya, 966 (m. 850, gr. 31); Middle East, 4 (m. 4, gr. 2); Nepal, 2 (m. 2, gr. 1); New Zealand, 135 (m. 129, gr. 28); Pacific Islands, 13 (m. 11, gr. 0); Pakistan, 21 (m. 20, gr. 10); Papua/New Guinea, 44 (m. 32, gr. 3); Philippines 38 (m. 26, gr. 21); Singapore, 455 (m. 387, gr. 8); Thailand, 63 (m. 45, gr. 25); U.K., 24 (m. 23,

gr. 18); Vietnam, 46 (m. 43, gr. 3). Total: 2871 (m. 2508, gr. 271). *Note*: of the 271 graduates 224 were men. *Enrolments in the arts and social sciences* (men students in brackets): Africa, 1 (1); America, 8 (4); Borneo, etc., 35 (24); Burma, 5 (3); Cambodia, 1 (1); Ceylon, 8 (6); Europe, 2 (1); Fiji, 50 (41); Hong Kong, etc., 79 (52); India, 2 (2); Indonesia, 35 (30); Japan, 1 (1); Korea, 1 (0); Malaya, 171 (137); Middle East, 0 (0); Nepal, 0 (0); New Zealand, 46 (6); Pacific Islands, 4 (4); Pakistan, 1 (1); Papua, etc., 20 (11); Philippines, 3 (2); Singapore, 93 (67); Thailand, 13 (12); U.K., 4 (3); Vietnam, 17 (14). Total: 564 (423). *Enrolments in the sciences and applied sciences*: these can be obtained by subtraction. *Enrolments under the Colombo Plan*: Borneo, etc., 54; Burma, 25; Cambodia, 1; Ceylon, 12; India, 12; Indonesia, 134; Korea, 1; Malaya, 95; Nepal, 2; Pakistan, 12; Philippines, 32; Singapore, 46; Thailand, 49; Vietnam, 46. Total: 521.

DEGREES AWARDED (1959). *Total awards* (higher degrees in brackets). *Agriculture*: BAgrSc, BScAgr or BAgr, 160 (29). *Architecture*: BArch, 59 (3). *Arts*: BA, 1187 (73). *Commerce-Economics*: BCom or BEc, 259 (4). *Dentistry*: BDS or BDS, 117 (17). *Divinity*: BD, 5. *Education*: BEd, 103 (6). *Engineering*: BCE or BE(Civil), 135; BEE, BE(Elect), 122; BMEchE or BE(Mech), 95; BME or BE(Mining), 21; BMetE or BE(Met), 11; BChemE or BE(Chem), 39; BSurv, 4; BMech and EEng, 2; BE (AeroEng), 8; BAgrE, 1; BE(Arch), 1; higher degrees, 44; total, 483 (44). *Law*: LLB, 209. *Medicine*: MB BS, 422 (28). *Music*: MusBac, 21. *Science*: BSc, 682; BScFor, 13; BAppSc, 11; BSc(Med), 8; higher degrees, 160; total, 874 (160). *Technology*: BTech, 40. *Veterinary Science*: BVSc, 42 (2). Grand total: 3981 (including 366 higher degrees).

For Table of first degree courses, see overleaf.

Note.—Except for the Monash University, which began teaching in 1961, each of the universities named below French, geology, history, mathematics, philosophy, physics, psychology, and zoology (or biology). Monash mathematics, physics.

Degree Subject or Course [For an explanation of the symbols used, see p 18]	Adelaide	Australian National	Melbourne	Monash	New England	New South Wales	Queensland	Sydney	Tasmania	Western Australia
Accountancy	✓	✓	✓			✓	✓	✓	✓	
Agriculture or Rural Science ¹	✓		✓		✓		✓	✓		✓
Agric. Chemistry	✓						✓	✓		
Agric. Economics	✓				✓		✓	✓		✓
Anatomy	✓		✓			✓	✓	✓		✓
Anthropology								✓		✓
Applied Science	✓		✓				✓			
Archaeology								✓		
Architecture	✓		✓			✓	✓	✓		
Australian Literature	✓	✓	✓		✓	✓	✓	✓	✓	✓
Bacteriology or Microbiology	✓		✓			✓	✓	✓		✓
Biochemistry	✓		✓		✓	✓	✓	✓		✓
Building Science or Technology	✓		✓			✓				
Chemical Technology	✓					✓				
Chemistry (Applied)						✓	✓		✓	
Child Health	✓						✓			✓
Chinese		✓						✓		
Commerce			✓			✓	✓		✓	
Criminology			✓							
Dental Science or Surgery	✓		✓				✓	✓		✓
Diversity							✓	✓		
Economic History	✓	✓	✓		✓	✓	✓	✓	✓	✓
Education ²	✓		✓		✓		✓	✓	✓	✓
Engineering :										
Aeronautical						✓		✓		
Agricultural			✓							
Chemical	✓		✓	✓		✓	✓	✓	✓	
Civil, Electr., Mech.	✓		✓	✓		✓	✓	✓	✓	✓
Electronic	✓									
Industrial			✓			✓	✓			
Metallurgical	✓		✓				✓			
Mining	✓		✓			✓	✓	✓		✓
Fine Arts			✓							
Forestry ³	✓		✓		✓	✓	✓	✓	✓	✓

¹ Various courses are taught at the universities under the heading of agriculture (see also Genetics). Rural science is taught at New England.

² Degree courses in education are either postgraduate or undergraduate.

³ Taught in association with independent forestry schools, especially the Australian Forestry School, Canberra.

[continued on opposite page]

STUDY (see p. 18)—TABLE OF FIRST DEGREE COURSES

provides major, bachelor degree courses, in: botany (or biology), chemistry, classics, economics, English, University has started major, bachelor degree courses, in biology, chemistry, economics, English, history,

<i>Degree Subject or Course</i> <i>[For an explanation of the symbols used, see p. 18]</i>	Adelaide	Australian National	Melbourne	Monash	New England	New South Wales	Queensland	Sydney	Tasmania	Western Australia
Fuel Technology						✓				
General Science						✓		✓		
Genetics ⁴	✓				✓		✓			✓
Geography	✓		✓		✓	✓	✓	✓	✓	✓
German	✓	✓	✓		✓	✓	✓	✓	✓	✓
History and Methods of Science		✓	✓			✓	✓			
Humanities and Social Sciences				✓		✓				
Indonesian		✓	✓					✓		
Industrial Arts						✓				
Industrial Relations		✓	✓			✓		✓		✓
Italian			✓					✓		✓
Japanese		✓						✓		
Law	✓	✓	✓				✓		✓	✓
Malayan Studies								✓		
Mathematical Physics	✓	✓								
Medicine—Surgery	✓		✓	✓		✓	✓	✓		✓
Metallurgy ⁵			✓			✓	✓			✓
Music ⁶	✓		✓				✓	✓		✓
Naval Architecture						✓				
Pharmacology	✓		✓				✓	✓		
Pharmacy							✓	✓		
Physical Education							✓	✓	✓	✓
Physiology	✓		✓		✓	✓	✓	✓		✓
Political Science or Government	✓	✓	✓	✓		✓	✓	✓	✓	✓
Russian		✓	✓							
Semitic Studies			✓					✓		
Social Studies or Social Work							✓			
Sociology						✓				
Statistics	✓	✓	✓		✓	✓	✓	✓	✓	✓
Surveying	✓		✓			✓	✓		✓	✓
Textile Technology						✓				
Veterinary Science			✓				✓	✓		
Wool Technology						✓				

⁴ Minor courses are usually provided in Agriculture.

⁵ Metallurgy often forms part of the course in mechanical engineering (see also Engineering, Metallurgical)

⁶ At Tasmania appropriate passes in an outside examination enable candidates to be credited with a unit of music towards an arts degree.

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[†=Part-Time]

Agriculture , see Waite Agric. Res. Inst., below		Keech, D. B., PhD Jarrett, I. G., MSc 3 Demrs., 1 Tutor†	Lectr. (Agric. Biochem.) †Lectr.
Anatomy		Botany	
Abbie, A. A., MD DSc <i>Syd.</i> , PhD <i>Lond.</i> , FRACP	Elder Prof.	Robertson, R. N., BSc <i>Syd.</i> , PhD <i>Camb.</i> , FRS, FAA	Prof.
Packer, A. D., MSc MD	Reader	Womersley, H. B. S., DSc	Reader
Van Deth, J. H. M. G., MD <i>Brussels</i>	Sr. Lectr.	Riches, J. P. R., MA PhD <i>Camb.</i>	Sr. Lectr.
Barbour, R. A., MB BS	Sr. Lectr.	Lange, R. T., PhD <i>W.Aust.</i>	Lectr.
Adams, G. S., MB BS	Lectr.	Eardley, Constance M., MSc	Systematic Botanist
.....	(Histol.) Lectr.	Martin, P. G., PhD	(Biol.) Sr. Lectr.
Schroder, Judith, BSc	(Histol.) Sr. Demr.	Duckhouse, D. A., PhD <i>Lond.</i>	(Biol.) Lectr.
Animal Ecology , see Zool.		Wollaston, Elise M., AUA BSc	Sr. Demr.
Animal Products , see Animal Products Res. Foundation, below		Shepley, Estelle A., MSc	(Biol.) Sr. Demr.
		3 Demrs. (Bot.), 4 Demrs. (Biol.)	
Architecture		Chemistry, Organic	
Jensen, R. A., BArch <i>Liv.</i> , FRIBA	Prof.	Badger, G. M., MSc <i>Melb.</i> , PhD <i>Lond.</i> , DSc <i>Glas.</i> , FRIC, FAA	Prof.
Herbert, G., March DipTP <i>Rand</i>	Reader	Rodda, H. J., PhD <i>Camb.</i> , MSc	Reader
Hoskings, H. N., DipArch	Sr. Lectr.	Clark-Lewis, J. W., BSc <i>Lond.</i> , BPharm	Reader
Kendrick, J. D., BScTech <i>Manc.</i>	Sr. Lectr.	PhD <i>Nott.</i>	Reader
Schiott, T., MAA <i>Denmark</i>	Lectr.	Lewis, G. E., PhD	Sr. Lectr.
3 Lectrs.†		Sasse, W. H. F., PhD	Lectr.
Australian Linguistics , see Bd. for Anthropol. Res., below		Beckwith, A. L. J., BSc <i>W.Aust.</i> , DPhil <i>Oxon.</i>	Lectr.
Biochemistry and General Physiology		Gream, G. E., MSc <i>N.E.</i>	Lectr.
Mitchell, Sir Mark L., MSc <i>Camb.</i>	Prof.	Jones, R. A., BA BSc <i>Oxon.</i> , PhD <i>Camb.</i>	Lectr.
Holdsworth, E. S., PhD <i>Leeds</i>	Reader	Massey-Westropp, R. A., MSc <i>Syd.</i> , PhD <i>Manc.</i>	Lectr.
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Neville, Margaret E. S., BSc <i>Melb.</i> , PhD <i>Leeds</i>	Lectr.	Jordan, D. C., DSc <i>Lond.</i> , FRIC	Angas Prof.

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 1 Tutor

Education

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 Walters, G. H., LLB (Procedure)
 Hunter, B. O., LLB (Equity)
 Wells, W. A. N., BA BCL *Oxon.*, LLB (Property)
 McEwin, J. N., LLB (Legal Ethics)
 Bray, J. J., QC, LLD (Roman L.)
 Mitchell, Roma F., LLB (Family)
 Sangster, A. K., LLB (Taxation)
 Isaachsen, O. C., LLB (Comm. L.)
 Jacobs, S. J., LLB (Comm. L.)
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 Potts, R. B., DPhil *Oxon.*, BSc (Appl. M.) Prof.
 Cornish, E. A., BAgrSc *Melb.*, DSc,
 FAA (Mathl. Stats.) †Prof.
 Szekeres, G., DipChemEng *Bud.* Reader
 Gray, M. C., BSc Sr. Lectr.
 Rennie, B. C., MA PhD *Camb.* Sr. Lectr.
 Brearley, M. N., BE *W.Aust.*, BSc *Syd.*,
 BA *Camb.*, PhD Sr. Lectr.
 Michael, J. H., PhD Sr. Lectr.
 Morris, K. W., BSc Lectr.
 Sanderson, J. G., MSc Lectr.
 Mansbridge, H. E., MSc Lectr.
 Hale, R. P., BA *Camb.*, BSc Sr. Tutor
 2 Tutors, 1 Tutor†

Medicine, see below**Microbiology**

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 Atkinson, Nancy, OBE, MSc *Melb.*,
 DSc (Indust. M.) Reader
 Collins, F. M., MSc Lectr.
 Jenkin, C. R., PhD *Lond.* Lectr.
 Pavillard, R. E., MB BS *Lond.* Lectr.
 Reeves, P., PhD *Lond.* Res. Fellow
 3 Demrs.

Mineralogy, see Geol.

Music, see also Elder Conservatorium, below

Bishop, J., OBE, FRMC Elder Prof.
 Horner, J. A., FRCO Sr. Lectr.
 Peters, J. V., BMus *Durh.*, MusD *N.Z.*,
 FRCO Lectr.
 Fairhurst, H. Lectr.
 Holdev, Alison J., MusBac †Lectr.
 1 Tutor

Pathology

Robertson, J. S., MB BS *Syd.*, DPhil *Oxon.*
 Marks Prof.
 Reid, R. T. W., MD Reader
 Hodge, P. R., MB BS (Forensic P.) Sr. Lectr.
 Murray, K. D., MB BS *Syd.* Lectr.
 Lykke, A. W. J., MB BS Lectr.
 Matz, L. R., MB BS Lectr.
 Burns, R. J., MB BS Lectr.

Pharmacology, see *Physiol.***Pharmacy**

Reynolds, B. L., BPharm *Lond.*
 Sr. Lectr.-in-Charge
 Anderson, R. A., BSc AUA Lectr.
 Stock, B. H., AUA Lectr.
 McCarthy, R. C., AUA †Lectr.

Philosophy

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 Hughes Prof.
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 Sr. Lectr.
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Physical Education

Apps, B. F. G., BA DipEd DPE *Melb.*
 Sr. Lectr.-in-Charge
 Barwell, Elizabeth M. Lectr.
 Sedgwick, A. W., BA *Birm.* Lectr.

Physics

Carver, J. H., MSc *Syd.*, PhD *Camb.* Elder Prof.
 Tomlin, S. G., PhD *Lond.*, FIP Reader
 Fuller, G. R., BSc Sr. Lectr.
 Atchison, G. J., PhD Sr. Lectr.
 Elford, W. G., PhD Sr. Lectr.
 Sutton, D. J., PhD Sr. Lectr.
 Medlin, E. H., PhD Sr. Lectr.
 Iliffe, M. I. G., BSc Lectr.
 Bevan, A. R., BSc *Lond.*, MSc *Syd.* Lectr.
 Kempster, C. J. E., MA PhD *Camb.* Lectr.
 Lawrence, R., MSc Lectr.
 Enson, L. G., PhD Lectr.
 Mitchnik, V., BSc *M.I.T.*, MSc *Calif.* Sr. Demr.
 4 Demrs.

Physiology, General, see *Biochem.***Physiology, Human, and Pharmacology**

Whelan, R. F., MD DSc *Belf.* Prof.
 Lappay, F., MD *Djur Vienna*, DO *Lond.*,
 DSc Reader
 de la Lande, I. S., PhD *Melb.*
 (Pharmacol.) Reader
 Kerr, D. I. B., PhD Sr. Lectr.
 Day, A. J., DPhil *Oxon.*, MSc MD Sr. Lectr.
 Dellow, P. G., MB BS Lectr.
 3 Demrs.

Physiotherapy

Casely, Elma G. Sr. Lectr.-in-Charge
 Hammond, Marie J., AUA Lectr.
 4 Lectrs †, 7 Tutors†

Political Science, see *Hist. and Pol. Sci.***Psychology**

Jeeves, M. A., MA PhD *Camb.* Prof.
 Dienes, Z. P., PhD *Lond.*, DipEd *Leic.* Reader
 Lovibond, S. H., BA *Melb.*, MA Sr. Lectr.
 Brown, L. B., MA DipEd *N.Z.*,
 PhD *Lond.* Sr. Lectr.
 Gibbs, D. N., MA *N.Z.*, PhD *Lond.* Lectr.
 Penny, R. E. C., BA *Melb.* Lectr.
 Glow, P. H., BA *Melb.*, PhD *Lond.* Lectr.
 Houssiadis, L., BA *Thessalonika*,
 PhD *Leeds* Lectr.

Social Studies

Brown, R. G., BA DipSocStud *Melb.*,
 MSS *Bryn Mawr*, PhD *Birm.*
 Sr. Lectr.-in-Charge
 Norton, Margaret, BCom DipSocStud *Melb.*,
 MA *Chc.* Lectr.
 1 Tutor, 1 Tutor†

Zoology

Rogers, W. P., MSc *W.Aust.*, DSc *Lond.*,
 FAA Prof.
 Andrewartha, H. G., DSc (Animal Ecol.) Reader
 Thomas, I. M., MSc *Wales* Sr. Lectr.
 Edmonds, S. J., BA PhD Sr. Lectr.
 Sharman, G. B., BSc *Tas.* Sr. Lectr.
 Browning, T. O., BSc *Syd.*, PhD
 (Animal Ecol.) Sr. Lectr.
 Madge, P. E., PhD (Animal Ecol.) Res. Fellow
 Angel, L., Madeline, MSc Sr. Demr.
 2 Demrs.

DENTISTRY

(See also *Anat.*, *Biochem.*, *Chem.*, *Microbiol.*,
Pathol., *Physiol.* and *Zool.*, above)
 Horsnell, A. M., FDSRCS (D. Sci.) Prof.
 Hughes, J. E., MB MS (Surg.) †Lectr.
 McPhie, J. M., MB BS, MRACP (Med.) †Lectr.
 Willoughby, R. G., MDS
 (Principles of D. Practice) †Lectr.
 Marshman, W. M., BDS (Children's D.) †Lectr.

Bloomfield, A. J., BDS
(D. Mat. Med. & Therapeutics) †Lectr.
Swgeney, R. J., MB BS
(Anæsthetics) †Lectr. & Instr.
Hecker, R., MD, MRCP (Med.) †Tutor
McLeay, D. B., MB BS (Surg.) †Tutor
Frayne, H. B., MDS (1st yr. students) †Tutor
Brown, K. A., BDS (1st yr. students) †Tutor

Conservative Dentistry

Reiners, J. A., BDS †Lectr. & Instr.
7 Tutors†

Crown and Bridge Work

Mount, G. J., BDS Syd. †Lectr. & Instr.

Dental Anatomy

Brown, T., BDS Lectr.

Dental Surgery and Pathology

Cran, J. A., BDSc Q'ld., DDSc Reader
Radden, B. G., BDSc W.Aust., PhD Lond.,
FDSRCS Sr. Lectr.
2 Tutors†

Orthodontics

Begg, P. R., BDS Melb., DDSc †Lectr.
1 Tutor†

Periodontics

Reade, P. C., BDS, FDSRCS Lectr.

Prosthetic Dentistry

Barrett, Mr J., MDS Reader
Robertson, K. J., MDS †Lectr.
5 Tutors†, 4 Demrs.†

MEDICINE

(See also Anat., Biochem., Bot., Chem., Microbiol.,
Pathol., Phys., Physiol. and Zool., above)

Child Health

Maxwell, G. M., MD Edin., MRCP
McGregor Reid Prof.
..... Reader
..... Lectr.
4 Tutors†

Medicine

Robson, H. N., MB ChB Edin., FRCPed
Mortlock Prof.
Hetzel, B. S., MD, FRACP Reader
Lander, H., MB BS, MRACP Sr. Lectr.
Phear, D. N., MA MD Camb., MRCP Sr. Lectr.
Hodge, R. L., MB BS, MRACP Asst. to Prof.
Deller, D. J., MB BS Syd., MRACP
Michell Res. Fellow
Kinlough, Margaret A., MB BS Res. Fellow
Chinner, M. E., MD, FRACP (Med.) †Lectr.
Sangster, C. B., OBE, MD, MRCP,
FRACP (Med.) †Lectr.

Bopnin, J. M., MD, MRCP, FRACP (Med.) †Lectr.
Burstons, R. A., MB BS, MRCP (Med.) †Lectr.
Southwood, H. M., BSc MD, MRACP (Psychol. Med.) †Lectr.
Paxon, T. G., MD Lond., MRCP (Pulmonary TB.) †Lectr.
Tutors†: 9 in Med., 2 in Infectious Dis.,
1 in Clin. Psychiatry; 1 Demr.

Obstetrics and Gynaecology

Cox, L. W., MB ChB N.Z., FRCS, FRACS
Poidevin, L. O. S., MB BS Syd., MD Prof.
(Obstet.) Reader
Bockner, V. (Obstet.) †Sr. Lectr.
9 Tutors†

Public Health and Preventive Medicine

Woodruff, P. S., MD Melb., DTM&H Syd.,
MRACP †Lectr.
2 Demrs.†

Studies in Humanities

Harris, C. R. S., MA DPhil Oxon.,
PhD Prin. Reader
1 Tutor†

Surgery

Jepson, R. P., BSc MB ChB Manc., FRCS Prof.
Catchpole, B. N., MD MS Manc., Reader
FRCS
Opit, L. J., MB BS, FRCS (Surg.) Sr. Lectr.
Jones, R. B., MB BS, FRCS (Surg.) †Sr. Lectr.
Lendon, A. H., MB BS, FRCS (Surg.) †Lectr.
Barbour, J. R., MB MS, FRCS (Surg.) †Lectr.
McEachern, A. C., MB MS, FRCS (Surg.) †Lectr.
Magarey, J. R., MB MS, FRCS (Surg.) †Lectr.
McLarty, T. L., MD DOMS (Ophthal. Surg.) †Gosse Lectr.
Cocks, A. S. de B., MB MS DLO, FRACS (Dis. of Ear, Nose & Throat) †Lectr.
McKay, D. G., MB BS, FRCSEd (Surg. Dis. of Children) †Lectr.
Marshall, N. G., MB ChB N.Z., DA, FFA (Anæsthetics) †Lectr.
16 Tutors†

Clinical Teachers

Staffs of Royal Adelaide, Q. Elizabeth and
Children's Hosps.

ANIMAL PRODUCTS RESEARCH FOUNDATION

Marston, H. R., Hon DSc A.N.U. & Adel.,
FRS Chairman, Advisory Bd.
Dawbarn, Mary C., DSc Res. Chemist

ANTI-CANCER COMMITTEE

Hanson, B. S., DSO, OBE, ED, MB BS
Chairman of Cttee. & Hon. Radiotherapist

Gurner, C. M., MB BS
 Hon. Asst. Radiotherapist
 Worthley, B. W., BA MSc Sr. Physicist
 Tooze, M. J., BSc Physicist
 Parker, M. H., MSc Physicist
 Hayward, Judith M., BSc Asst. Physicist
 Morgan, Elma S., MB BS Neoplasm Registrar
 Osmofo, Ruth, MB BS Cyto-Pathologist

BOARD FOR ANTHROPOLOGICAL RESEARCH

Strehlow, T. G. H., MA
 Reader in Australian Linguistics

ELDER CONSERVATORIUM OF MUSIC

Bishop, J., OBE, FRCM Dir.
 Teachers
 Johnston, F. †(Art of Speech)
 Holder, Alison, MusBac †(Aural Culture & Musical Appreciation)
 Good, J. G. †(Bassoon Ensemble Playing & Orchestral Class)
 Bone, A. †(Double Bass)
 (Drama)
 Davies, L.
 (Ensemble Playing & Orchestral Class, Violin)
 Fairhurst, H.
 (Ensemble Playing & Orchestral Class, Violin)
 Jasek, L. (Violin, Viola, Orchestral Class)
 Whitehead, Nora †(Violin, Viola)
 Cubbin, D. †(Flute)
 Fry, S. †(French Horn)
 Jones, H. †(Harp)
 Post, N. †(Oboe)
 Howard, Barbara (Opera, Singing)
 Horner, J. A., FRCO
 (Musical Appreciation, Organ, Pianoforte)
 Peters, J. V., BMus *Durh.*, MusD *N.Z.*,
 FRCO (Organ)
 Smith, R. †(Percussion)
 Dossor, H. L. (Pianoforte)
 Leske, C. T., MusBac *Melb.* (Pianoforte)
 Williams, Enid †(Pianoforte)
 Matters, A. (Opera, Singing)
 Watson, R. (Singing)
 Limb, Diana (Singing)
 Govenlock, J. C., MusBac †(Theory)
 Taylor, L. †(Trumpet)
 Bishop, J. D. †(Violoncello)
 Whitehead, J. (Violoncello)

WAITE AGRICULTURAL RESEARCH INSTITUTE

Melville, J., MSc *N.Z.*, PhD *Lond.* Dir.
 Biometrician

Agricultural Chemistry

Morton, R. K., BScAgr *Syd.*, PhD *Camb.*,
 FAA • Waste Prof
 Quirk, J. P., BScAgr *Syd.*, PhD *Lond.*
 (Soil Sci.) Reader

Best, R. J., DSc (Virol.) Reader
 Millerd, Alison A., PhD *Syd*
 (Plant Biochem.) Sr. Lectr.
 Atkinson, M. R., PhD *Tas.*
 (Enzyme Chem.) Sr. Lectr.
 Greenland, D. J., MA DPhil *Oxon.*
 (Soil Sci.) Lectr.
 Lewis, D. G., MSc (Soil Chem.) Lectr.
 Gallus, H. P. C., MSc (Virus Chem.) Lectr.
 Graham, Janet S. D., PhD *St. And.*
 (Protein Biochem.) Lectr.
 Falconer, I. R., BSc *Nott.*, PhD *Aberd.*
 (Animal Biochem.) Lectr.
 Jennings, A. C., BSc *Syd.* (Analyst) Lectr.
 Posner, A. M., PhD *Lond.* (Soil Sci.) Lectr.

Agronomy

Donald, C. M., BScAgr *Syd.*, MAgSc
 Waite Prof. of Agric., Hd. of Dept.
 Black, J. N., MA DPhil *Oxon.* Reader
 Finlay, K. W., PhD *W. Aust.*
 (Plant Breeding & Genetics) Reader
 (Agrostol.) Sr. Lectr.
 Barley, K. P. J., MAgSc *Melb.* Sr. Lectr.
 Millington, R. J., MSc *Syd.*, PhD Sr. Lectr.
 Alden, W. G., MA *Camb.*, MAgSc
 Mortlock Fellow
 Knight, R., BSc *Lond.*, DipAgricSc *Camb.*,
 DipTropAgr *I.C.T.A.*
 (Plant Breeding & Genetics) Lectr.
 Powrie, J. K., BSc(Agric) *W. Aust.*, MSc Lectr.
 Silsbury, J. H., BSc(Agric) *W. Aust.*
 (Agrostol.) Lectr.
 Carter, E. D., BAgSc (Agrostol.) Lectr.
 Everitt, G. C., MSc *Wales*
 (Animal Production) Lectr.
 Sparrow, D. H. B., BSc *R'dg.*
 (Plant Breeding & Genetics) Lectr.
 Symon, D. E., BAgSc (Bot.) Lectr.
 Carpenter, J. A., MSc(Agric) *W. Aust.*
 (Species Studies) Lectr.
 Shepherd, K. W., BAgSc
 (Wheat Geneticist) Lectr.

Entomology

..... Reader-in-Charge
 Lower, H. S. F., MSc Sr. Lectr.
 Johnson, B., BScAgr *Syd.*, PhD *Lond.* Sr. Lectr.
 Morgan, F. D., MSc *N.Z.*, PhD *Calif.* Sr. Lectr.
 Doull, K. M., MAgSc *N.Z.* Lectr.
 Maelzer, D. A., MSc *W. Aust.*, PhD Lectr.
 Miles, F. W., MSc *Rhodes*, PhD *Camb.* Lectr.
 Monro, J. M., BSc *Syd.*, PhD Lectr.
 Taylor, D. J., BSc *Wales*, DipAgricSc *Camb.*,
 DipTropAgr *I.C.T.A.* Lectr.
 Brookes, Helen M.
 Asst. Systematic Entomologist

Plant Pathology

Flentje, N. T., PhD *Lond.*, MSc
 Reader-in-Charge
 Warcup, J. H., PhD *Camb.*, MSc *N.Z.*
 (Microbiol.) Sr. Lectr.
 Kerr, A., BSc *Edin.*, PhD
 (Plant Pathol.) Sr. Lectr.

Talbot, P. H. B., MSc <i>S.A.</i> , PhD <i>Lond.</i>	Plant Physiology
(Systematic Mycologist) Sr. Lectr.	May, L. H., PhD <i>Lond.</i> , BSc
Crowley, N. C., BScAgr <i>Syd.</i> , PhD	Reader-in-Charge
Carter, M. V., MAgSc (Plant Pathol.)	Marinos, N. G., BA <i>Iowa</i> , PhD
Clare, B. G., BSc <i>Q'ld.</i>	Paleg, L. G., PhD <i>Iowa</i>
Fisher, J. M., BScAgr <i>Syd.</i> (Nematol.)	Aspinall, D., PhD <i>Nott.</i>
Vaartaja, L. O., PhD <i>Helsinki</i>	Coombe, B. G., PhD <i>Calif.</i> , MAgSc
(For. Pathol.) Lectr.	Edwards, G. R., MSc <i>Calif.</i> , BAgSc
Francki, R. I. B., MSc <i>N.Z.</i> (Virol.)	(Hortic.) Lectr.

ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar (Academic): H. E. Wesley Smith, BEd *Melb.*, DipEd *Oxon.*, BA. Asst. Registrar (Finance): W. Meiklejohn. Asst. Accountant: E. S. Wyett, BEc *AUA.* Chief Clerk: D. W. Wallis. Sr. Admin. Assts.: H. J. Buchan, BSc *Syd.*; L. N. Shaw, BEc *Syd.*; K. J. Farrer, BA(Econ) *Mannc.*; J. T. Whelan, BEc. Admin. Assts.: A. Hanson; E. G. King, BA *W.Aust.*; D. G. McKie, BA; T. J. Somerville, BComm DipPubAdmn *N.U.J.*; A. D. Scott; A. P. Walker, BA. Statistics Officer: B. J. Holding, BEc. Staff Architect: G. J. Harrison, BArch *Syd.* Asst. Architect: R. W. Mutton. Asst. to

Vice-Chancellor: G. L. Williamson, BSc. Asst. to Registrar: F. S. Hambly, BEc. Sec. of Bds. of Public Exams.: L. H. Dalziel, BA. Asst. Sec. of Bds. of Public Exams.: L. A. G. Wright. Sec. of Waite Agric. Res. Inst.: G. L. Gooden. Sec. of Elder Conservatorium: J. L. Porter. Asst. Librarians: Margaret W. Sorrell, BA (Cataloguing); Kerstin L. Andersen, BA (Readers' Services). Warden of Union: F. T. Borland, MA *Melb.*, DipEd *Edm.* Sec. of Union: H. Swales Smith. Asst. Sec. of Union: E. Bronwen Greet, BA.

ASSOCIATED OR AFFILIATED INSTITUTIONS

AQUINAS COLLEGE, Montefiore Hill, North Adelaide, S.A. (tel.: Adelaide 6. 9944). Residential. Opened 1950. Under management of Roman Catholic Church, but open to men of all denominations. Rector—Very Rev. Fr. M. A. M. Scott, MSc *Dub.*

LINCOLN COLLEGE, Brougham Place, North Adelaide, S.A. (tel.: Adelaide 6. 8019). Residential. Opened 1952. Under management of Methodist Church, but open to men of all denominations. Master—Rev. W. F. Hambly, MA *BD Melb.*

ROSEWORTHY AGRICULTURAL COLLEGE, Roseworthy, S.A. (tel.: Roseworthy 2). Opened 1885. Affiliated for parts of BAgSc course for agric. students. Principal—R. N. McCulloch, DSc *Q'ld.*

ST. ANN'S COLLEGE, Brougham Place, North Adelaide, S.A. (tel.: Adelaide 6. 9078). Residential. Opened 1947. Open to women of all

denominations. Principal—Lilian Bush, MA *Edin.*

ST. MARK'S COLLEGE, Pennington Terrace, North Adelaide, S.A. (tel.: Adelaide 6. 9211). Residential. Opened 1925. Under management of Church of England, but open to men of all denominations. Master—R. B. Lewis, BSc *Melb.*, BA.

SOUTH AUSTRALIAN INSTITUTE OF TECHNOLOGY, North Terrace, Adelaide, S.A. (tel.: Adelaide 8. 1771). Affiliated with the univ. for the provision of certain courses and exams. in engin., technol. and appl. sci. Dir.—S. I. Evans, PhD *Sheff.*

TEACHING HOSPITALS ASSOCIATED WITH MEDICAL SCHOOL. Royal Adelaide H., approx. 800 beds, apart from subsidiary hosps. for cancer, TB., infectious diseases, etc.; Queen Elizabeth H., 450 beds; Queen Victoria Maternity H., 100 beds; Adelaide Children's H., 350 beds; 'Mareeba' Babies' H.; Parkside Mental H.

GENERAL INFORMATION

The univ. was estab'd. by act of the provincial legislature in 1874. It began with endowments of £A20,000 each from Sir W. W. Hughes and Sir Thomas Elder, a land grant of 50,000 acres (subsequently repurchased by the govt. for £A40,000), a site of 5 acres in the city and an annual govt. subsidy of 5 per cent. on endowments. The original site was increased to 8 acres in 1920, to 14 acres in 1927, in 1929 to 27 acres and in 1960 to about 30 acres.

CONSTITUTION. The council consists of the chancellor, the vice-chancellor, 20 members elected by the senate and 5 elected by parliament.

The senate consists of all grads. holding degree qf master or doctor and all other grads. of 3 yrs.' standing.

INCOME (1960). Total for general running costs, £A1,940,000 (govt. grants, 86 per cent.; endowments, 2 per cent.; fees, 10 per cent.;

other, 2 per cent.). Income and grants for specific purposes, £A222,000. Original capital of endowments, about £A1,530,000.

FACULTIES. Agric. sci., archit. & town planning, arts, dent., econ., engin., law, med., music, sci., technol. Deans apptd. annually.

BOARDS OF STUDIES. Pharmacy, phys. educn., physiotherapy, soc. studies, research studies (for PhD degree).

UNIVERSITY PRECINCT. The campus consists of about 30 acres within the city of Adelaide and about 45 acres in park-lands for playing fields; 2 major bldgs. occupied at beginning of 1961 and plans for 3 more in process.

LIBRARY. Approx. 256,000 vols., incl. 14,500 vols. in Waite Inst. library.

LABORATORIES. At the univ.—anat., biochem., bot., chem., engin. (civil, electr., mech., mining, metall. and chem. engin.), geol., histol., microbiol., pathol., pharm., phys., physiol., pharmacol. and zool. For the Waite Inst., *see below*.

MUSEUMS. Anat., bot., geol., pathol., physiol. and zool.

TEACHING HOSPITALS. *See above.*

The ELDER CONSERVATORIUM OF MUSIC (for staff *see* p. 27 *above*), establd. in 1898, is part of the univ. and provides tuition in a wide range of studies in the performance of music. Its students include not only those proceeding to the univ. dipl. but also many others who wish to study a principal subj. (e.g. singing or pianoforte) or to undergo trg. in group work such as orchestral and operatic performances and who satisfy the dir. of their fitness to be admitted.

The WAITE AGRICULTURAL RESEARCH INSTITUTE (for staff *see* p. 27 *above*) was establd. in 1924 as a result of a gift by the late Mr. Peter Waite of an estate of 299 acres, a mansion-house and a trust fund of £A58,450. Subsequent endowments and govt. grants have expanded the work of the inst., the purpose of which is 'to further the cause of res. and educn. in agric. and allied subjects'.

COMPUTING CENTRE. Formed in Jan. 1961 to handle data processing problems for admin. and depts., and to promote res. in computing. IBM punch-card equipment obtained and a 1620 computer to be obtained in 1961. Actg. Dir.: Prof. E. S. Barnes, BA Syd. & Camb., PhD Camb., FAA; Numerical Analyst: I. N. Capon, BSc; Officer in Charge of Equipment: D. W. Simmons, DFC, BEc AUA.

The COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION's div. of mathl. stats. and div. of biochem. and general nutrition are housed within the univ. grounds and its div. of soils at the Waite Inst.—a total of about 60 scientific res. officers and their ancillary staff.

OTHER SPECIAL RESEARCH DEPARTMENTS. (1) Field lab. at Koonamore for investigation of plant regeneration in arid areas. (2) Sheridan Medical

Res. Foundation for support of med. res. (3) Animal Products Res. Foundation, which conducts investigations into problems of animal nutrition (*see* staff list, p. 26 *above*). (4) Bd. for Anthropological Res. on aboriginals of Australia. (5) Anti-Cancer Cttee. directs res. into cause, treatment and cure of cancer. (6) Mortlock Res. Centre for animal prodn. (7) Gwendolyn Michell Res. Foundation for med. res. (8) Mawson Inst. for antarctic res.

COLLECTIONS OF INTEREST TO SPECIALIST SCHOLARS. Collection of Australian endoparasites. The collection of the higher Australian fungi (basidiomycetes) given to the Waite Inst. by Prof. J. B. Cleland is by far the largest of its kind and is available for study by mycologists and forest pathologists. Collection of representative specimens from all the Australian opal fields. Anthropological collection of Australian skeletons. Collections of marsupial material. Herbarium of Australian plants. Reference library of Australian Salmonellas.

ADMISSION. *See* Appendix III.

ORDINARY DEGREES. 3 yrs., BA, BEc, BSc, BTech (courses in bldg. technol.; civil, electr., electronic and mech. engin.; surveying; given chiefly at S. Australian Inst. of Technol.); 4 yrs., BSc in forestry (incl. 2 yrs. at Australian Forestry Sch., Canberra), BAgSc, LLB, MusBac, BAppSc (courses in appl. chem.; primary metall.; sec. metall.; given chiefly at S. Australian Inst. of Technol.); 5 yrs., BE (civil, electr., mech., mining, metall., and chem.), BDS, BArch; 6 yrs., MB BS. Part of the work for the ordinary degrees of BA, BEc, BSc, BTech, LLB, MusBac and BE may be undertaken on a pt.-time basis.

HONOURS DEGREES. 4 yrs.—BA (classics; econ.; Engl.; French; geog.; German; hist.; Latin; maths.; philos.; pol.; psychol.; or an approved jt. course in 2 of those subjs.); BEc (comm., econ.); BSc (biochem.; bot.; genetics; geol.; mathl. phys.; maths.; microbiol.; org. chem.; pharmacol.; phys.; phys. & inorg. chem.; physiol.; zool.); MusBac (both addnl. work and higher standard than for ord. degree); BMedSc (anat.; biochem.; genetics; microbiol.; pathol.; pharmacol.; physiol.); 5 yrs.—BAgSc (any approved branch of agric. sci.); BE (both addnl. work and higher standard than for ord. degree, in chem., civil, electr., mech., metall., and mining engin.); BArch, LLB (both addnl. work and higher standard than for ord. degree); 6 yrs.—BDS (addnl. year after passing the third, fourth or final exam. for ord. degree). No hon. degree in med.

HIGHER DEGREES. MArch (not less than 1 yr. after ord. degree); MA, MEc, MBM, MSc, MAGSc (1 yr. after hon. degree or 2 yrs. after ord. degree); ME (2 yrs. after BE); LLM (2 yrs. after hon. LLB); MEd (after bachelor degree, dipl. in educn., and 3 yrs.' experience in educn.); MD, MS, MDS, MusDoc (3 yrs. after MB BS, BDS, MusBac); PhD (3 yrs. after hon.

bachelor degree in agric. sci., archit., arts, econ., engin., law, med. sci., or sci.); LLD, DDSc (4 yrs. after LLB, BDS); DLitt, DSc (5 yrs. after graduation).

The univ. does not award HONORARY DEGREES.

EXTERNAL DEGREES. The univ. does not award any degree or dipl. for external studies, though in certain courses, e.g. arts, S. Australian students may, in special circumstances, be exempted from attendance at lectures in some subsj. of the degree course.

DIPLOMAS. Any subgrad. dipl. awarded by the univ. entitles the holder to use the letters AUA—Associate of the University of Adelaide—and, if desired, to specify the subj., e.g. AUA(Pharm).

Pharmacy, 4 yrs.; educn., 2 yrs. after graduation; music, phys. educn., soc. studies, physiotherapy, 3 yrs. Fellowship of the Elder Conservatorium of Music (FECM) by exam. or by unanimous resolution of fac. of music for eminence as a performer. A 'final cert. in law' for admission as a practitioner in the supreme court is obtainable by articled clerks on a curriculum less extensive than that for the LLB; a dipl. in arts & educn. (AUA) is granted to candidates who complete prescribed work in the fac. of arts plus prescribed profess. trg. in one of the 2 recognized teachers' colls (3 yrs.); a dipl. in pub. admin. is granted to candidates who successfully complete a prescribed course of study in the fac. of econ. and who have had at least 3 yrs. satisfactory service in the S. Aust. public service or similar orgn.

PUBLIC EXAMINATIONS. The univ. conducts the 3 public exams. in general secondary educn. in S. Australia—inter., leaving and leaving honors.—and the public exams. in music.

POSTGRADUATE COURSES NOT LEADING TO A QUALIFICATION. The postgrad. ctees. in med., dent. and legal educn. organize regular postgrad. lectures by local, interstate and overseas lectrs.

RESEARCH. Facilities for postgrad. res. in every subj. listed under 'Teaching Staff' (above); the univ. makes annual allocation for special support of res. projects and postgrad. res. students; and in 1960 grants from outside sources for specific res. projects amounted to about £A222,000. A *Research Report* is published annually; copies may be had free of charge by univs. and libraries on request to the registrar.

STUDY LEAVE. The univ. has a special fund to support study leave, which is granted not at regular intervals of right but after consideration of all applicns. for such leave in a particular yr. Study leave is granted on full salary, with £A600 for fares overseas and a daily allowance for men with family responsibilities.

FEES. Matric., £A3:3s.; *ad eundem statum*, £A4:4s.; admission to degrees: any degree of bachelor, whether ord. or honors, £A5:5s.; any degree of master or doctor, £A10:10s.; any dipl., and FECM, £A5:5s.; statutory annual

fee, £A13:10s.; general service fee, £A6:6s. or £A3:3s.; tuition fees for degree courses in arts about £A53 p.a.; econ. about £A58 p.a.; sci. about £A93 p.a.; agric. sci. about £A84 p.a.; engin. about £A84 p.a.; law about £A68 p.a.; med. about £A95 p.a. (excl. hosp., £A40); dent. about £A90 p.a.; music about £A53 p.a.; technol. about £A75 p.a.; appl. sci. about £A71 p.a.; archit. about £A84 p.a.; dipl. courses in music, physiotherapy, phys. educn., and soc. studies, about £A63 p.a.; in pharmacy, special; Elder Conservatorium tuition about £A40 p.a.

ACADEMIC YEAR. Mid-March to early Dec.: 3 terms of 10, 9 and 15 wks., each lecturing term comprising 9 wks.

ADULT EDUCATION. Univ. bd. of adult educn. conducts extensive range of lecture, tutorial and discussion classes and study circles for adults in metropolitan area of Adelaide and is extending its work to country centres. Dir.: A. S. M. Hely, MA BCom NZ.; Asst. to Dir.: D. W. Crowley, MA NZ., PhD Lond.; Tutor Organizer: F. V. Bitmead, BA W.Aust.; Admin. Asst.: C. R. Lawton.

VACATION COURSES. Summer Sch. of Bus. Admin., organized by Dept. of Econ. (see also 'Publications' below).

PRINCIPAL 'OPEN' AWARDS. About 350 Commonwealth scholps. (see pp. 12-13) and 60 state bursaries (for residents of S. Australia; fees plus living allowance) each yr. for undergrad. studies. Not less than 13 Commonwealth postgrad. scholps. (£A700 p.a., renewable each yr. up to 4 yrs. on recommendation of supervisor). About 30 (no. varies each yr.) scholps. and fellowships (£A550-£A1700 p.a.) for postgrad. studies.

APPOINTMENTS BOARD. The univ. maintains a small appts. service for the benefit of jr. grads. Sec.: D. G. McKie, BA.

The GRADUATES' UNION is a constituent member of the univ. union. Hon. Sec.: D. G. McKie, BA.

RESIDENCE. St. Mark's Coll. (accommod. about 105 men), fee for residence during term about £A225 p.a.; St. Ann's (about 70 women), about £A200 p.a.; Aquinas (about 90 men), about £A210 p.a.; Lincoln (about 100 men), about £A220 p.a. These colls. provide tutorial instrcn. for their students over a wide range of the subsj. taught in the univ.

SERVICE UNITS. The univ. regiment was formed in 1947 and the univ. air squadron in 1950.

UNIVERSITY UNION. All students proceeding to a 1st degree or a dipl. are members of the union, and all full-time students are members of the sports assocn. also. A compulsory fee of £A13:10s. p.a. covers both. The *union council* controls the canteen and the union hall and maintains the health service, which offers without charge to the student a full med. and physical

exam., including X-ray, Mantoux, etc., and advice about specific treatment (if any) needed and general health matters. The *sports assoc.* provides facilities for the whole range of organized games played in S. Australia; playing fields of about 45 acres and of about 15 acres at Waite Inst. are situated in the park-lands near the Adelaide Oval, less than half a mile from the univ. The *students' representative council* is responsible for all other student activities associated with the union. Sec. of the union: H. Swales Smith.

PUBLICATIONS. *Calendar* (April), 7s. 6d.; *Public Exams. Manual* (April), 7s. 6d.; *Regulations*, 2s.; *Syllabuses and Timetables*, 2s.; *Gazette* (quarterly, by Graduates' Union), 3d.; *Australian Journal of Experimental Biol. and Medical Sci.* (two-monthly), £A3 p.p.; *Joseph Fisher Lecture in Commerce*, free; *Research Report* (June), free; *Proceedings of the Summer Schs. in Economics* (April), free. Student publications: *On Dit* (fortnightly), 1d.; *Science Journal* (annually), 2s.; *Engineering Journal* (annually), 2s.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS. *In progress:* arts bldg. stages 1 & 2; biol. sci. bldg.; new wing for dent. sch.; *major alterations:* admin. bldg.; Darling bldg. (biochem. and pharm.).

NEW CHAIRS. German; mental health.

RETIREMENTS. Helen Mayo (council); P. S. Hossfeld (geol.); H. T. J. Edwards (dent.); J. L. Eustace (dent.); L. A. Whittington (law).

RESIGNATIONS. D. H. Pike (hist.), apptd. to chair of hist., Tas.; A. W. Meadows (psychol.), to industry; G. R. Cochrane (geog.), to Melb.; P. T. Gilham (org. chem.), to U.S.A.; K. T. Potts (org. chem.), to U.S.A.; R. L. Specht (bot.), to Melb.; A. R. Anderson (anat.); R. K. Pak-Poy (pathol.), to Melb.; D. H. Simmonds (agric. chem.), to industry; L. D. Crawford (entomol.); C. Martin (music); Frances C. Shaw (soc. studies), to S. Africa; Mrs. Charlotte Ridgley (soc. studies), to U.S.A.

DEATHS. Rev. Canon H. P. Finnis (member, fac. of music, for many yrs.); G. O. Lawrence (flectr. in dent. for 30 yrs.); D. C. Swan (reader in entomol.).

Statistics

STUDENT NUMBERS, 1961
(as at March 31, 1961)

	Full-Time	Part-Time	External
Men . . .	2670	1904	220
Women . . .	888	843	63
Total . . .	3558	2747	283

Distribution by Faculties, etc. *Agric. sci.*, 114; *archit.*, 103; *arts* (incl. educn.), 2068; *dent.*, 82; *econ.*, 370; *engin.*, 495; *law*, 185; *med.*, 612; *music* (degree & dipl.), 46; *music* (Elder Conservatorium), 366; *pharm.*, 193; *phys. educn.*, 63; *physiotherapy*, 74; *pub. admin.*, 43; *sci.*, 1072; *soc. studies*, 88; *technol.*, 581; *misc.*, 33. Total: 6588.

Included in the figures above are:—

Students proceeding to higher degrees, 276.

New admissions, 1804.

Students from other countries, 318. (Countries from which largest numbers came: Fed. of Malaya, 147; Singapore, 79; Indonesia, 24; Hong Kong, 24.)

DEGREES AWARDED (1960), excl. candidates admitted *ad eundem gradum*. *Agric.*: BAgrSc, 14; BAgrSc (hons.), 6; MAgrSc, 3. *Arts*: BA, 44; BA (hons.), 28; MA, 2. *Dent.*: BDS, 1. *Econ.*: BEc, 27; MEc, 1. *Engin.*: BE, 36; BE (hons.), 21; ME, 4. *Law*: LLB, 11; LLB (hons.), 2. *Med.*: MB BS, 48; BMedSc (hons.), 1; MD, 4. *Music*: MusBac, 3. *Sci.*: BSc, 98; BSc (hons.), 33; MSc, 14; DSc, 4. *Technol.*: BTech, 57. PhD (all facs.): 9. Total number of bachelor degrees awarded, 430.

DIPLOMAS AWARDED (1960). Arts & educn., 83; educn., 31; music, 7; pharm., 25; phys. educn., 8; physiotherapy, 22; pub. admin., 3; soc. sci., 1; soc. studies, 4.

AUSTRALIAN NATIONAL UNIVERSITY*

Founded 1946

Postal Address : Box 4, G.P.O., Canberra, A.C.T., Australia

Cables and Telegrams : Natuniv, Canberra

Telephone : Canberra J 0422

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BURSAR—W. S. HAMILTON, AAUQ, FASA

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Professor A. H. ENNOR, DSc *Melb.*, FAA

Registrar of Institute—D. K. R. HODGKIN, BSc(Econ) *Lond.*

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Elliott, W. H., MA PhD *Camb.*

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Fellow

Morrison, J. F., BSc *Syd.*, MSc *Q'ld.*,
DPhil *Oxon.*

Fellow

Rosenberg, H., BSc *Melb.*, PhD

Fellow

Magrath, D. I., MSc *Syd.*, PhD *Camb.*

Res. Fellow

Boyden, S. V., BSc(VetSci) *Lond.*,
PhD *Camb.*

Sr. Fellow

Lascelles, A. K., MVSc *Syd.*

Res. Fellow

Woolley, G., MSc PhD *W.Aust.*

Res. Fellow

Medical Chemistry

Albert, A., BSc *Syd.*, PhD DSc *Lond.*,
FRIC, FAA

Prof.

Brown, D. J., MSc *Syd.*, PhD *Lond.*

Sr. Fellow

Perrin, D. D., MSc *N.Z.*, PhD *Lond.*,
FRIC

Sr. Fellow

Spinner, E., MScTech PhD *Manc.*

Sr. Fellow

Fildes, Joyce E., BSc *Syd.*, MSc
PhD *Birm.*

Res. Fellow

Armarego, W. L. F., BSc PhD *Lond.*

Res. Fellow

Evans, R. F., BSc MA DPhil *Oxon.*

Res. Fellow

Barlin, G. B., MSc *Syd.*, PhD

Res. Fellow

Biological Inorganic Chemistry Unit

Dwyer, F. P., DSc *Syd.*, FRACI

Prof.

Sargeson, A. M., BSc DipEd PhD *Syd.*

Fellow

Experimental Pathology

Courtice, F. C., MA DPhil *Oxon.*, DSc *Syd.*,
Hon FRACS, FRACP, FAA

Prof.

Mackanness, G. B., MB BS *Syd.*, MA
DPhil *Oxon.*, DCP *Lond.*

Reader

Morris, B., BVSc *Syd.*, DPhil *Oxon.*

Sr. Fellow

Microbiology

*Fenner, F. J., MBE, MD *Adel.*, DTM *Syd.*,
FRACP, FAA, FRS

Prof.

Fazekas de St. Groth, S. N. E. E., MD

(Virol.) Prof.

ChB S&M *Bud.*, FAA

(Virol.) Prof.

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 Marshall, I. D., BAgSc *Melb.*, PhD Fellow
 Laver, W. G., MSc *Melb.*, PhD *Lond.* Res. Fellow
 Woodroffe, Gwendolyn M., MSc *Adel.* Res. Fellow
 Lehmann-Grube, F., DrMed *Hamburg* Res. Fellow
 Lowther, D. A., BSc *Leeds*, PhD *Lond.* Res. Fellow

Physical Biochemistry

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 McKenzie, H. A., MSc PhD *Syd.*, FRACI Sr. Fellow
 Taylor, M. C., MSc *Tas.* Fellow, Electron Microscopist
 Preston, B. N., BSc PhD *Birm.* Res. Fellow

Armstrong, J. M., BSc *Syd.*, MSc *N.S.W.* Res. Fellow

Physiology

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 Macfarlane, W. V., MA MD *N.Z.* Reader
 Curtis, D. R., MB BS *Melb.*, PhD Sr. Fellow
 Coombs, J. S., MSc *N.Z.* Fellow
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 Morris, R. J. H., MSc *Melb.* Res. Fellow
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 Ito, M., MD PhD *Tokyo* Res. Fellow

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 Dunham, T., MD *Corn.*, PhD *Prin.* Reader
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 Przybylski, A., DrScTech *Zur.*, PhD Fellow
 Gottlieb, K., DipIng *Brno* Fellow, Res. Engineer
 Rodgers, A. W., BSc *Adel.*, PhD Res. Fellow

Electron and Ion Diffusion Unit

Huxley, L. G. H., MA DPhil *Oxon.*, PhD *Adel.*, FIP, FAA Hd. of Unit
 Crompton, R. W., PhD *Adel.* Sr. Fellow
 Elford, M. T., PhD *Adel.* Res. Fellow
 Rees, J. A., BSc PhD *Wales* Res. Fellow

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New Guinea Research Unit

Bettison, D. G., MA PhD *Rhodes* Sr. Fellow

Pacific History

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Maude, H. E., OBE, MA *Camb.* Sr. Fellow
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Sr. Res. Fellow

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Jennings, J. N., MA *Camb.*
(Geomorphol.) Reader
Brookfield, H. C., BA PhD *Lond.*
(Soc. Geog.) Reader

van der Veur, P. W., BA *Swarthmore*,
MA *Minn.*, PhD *Corn.* Sr. Res. Fellow
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Sadka, Emma, BA *Oxon.*, PhD Res. Fellow

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[†=Part-Time]

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Bahasa Indonesia, see Oriental Studies

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Paton, D. M., BSc PhD *Tas.* Sr. Lectr.
Brittain, E. G., BSc PhD *Melb.* Lectr.
Chilvers, G. A., BAgSc *Syd.* Lectr.
Gaub, E., PhD *Vienna* Temp. Lectr.
..... Sr. Demr.
i Demr.†

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Brown, R. F. C., MSc *Syd.*, PhD *Camb.* Lectr.
Gill, Naida S., MSc PhD *Syd.* Lectr.
Hawes, L. L., BSc *New Mexico Mining*
Inst. Lectr.
Warren, R. N., MSc *Syd.*, PhD *N.S.W.* Lectr.
..... Sr. Demr.
Tonnet, Marie L., BSc *Syd.* Sr. Demr.
2 Res. Assis., 3 Demrs †

Chinese, see Oriental Studies

Classics

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McKay, K. L., BA *Syd.*, MA *Camb.* Sr. Lectr.
Burge, E. L., BA *Q'ld.* & *Oxon.* Lectr.
Clarke, G. W., MA *N.Z.*, BA *Oxon.* Lectr.
Dyer, R. R., MA *N.Z.* Lectr.
i Lectr.†

Economic History

Tucker, G. S. L., BCom *Melb.*, PhD
Camb. Prof., Hd. of Dept.
Burton, H., BA *Q'ld.*, MA *Oxon.* & *Melb.* Prof.
Cain, N. G., BCom *Melb.* Lectr.
Forster, C., BCom *Melb.*, PhD Lectr.

Economics

Arndt, H. W., MA BLitt *Oxon.* Prof., Hd. of Dept.
Cameron, B. D., PhD *Camb.*, MEd *Syd.*
(Appl. E.) Prof.
Hieser, R. O., MEd *Adel.*, PhD, FASA Sr. Lectr.
Pitchford, J. D., MCom *Tas.*, PhD Sr. Lectr.
Head, J. G., BEd *Adel.*, BPhil *Oxon.* Lectr.
Neutze, G. M., MAgrSc *N.Z.* Lectr.

Sloane, K., BEC *Q'ld.*, PhD *Duke*

 2 Res. Assts., 3 Lectrs.†, 1 Tutor†

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 Moore, T. I., OBE, BA *Syd.*, MA *Oxon.*
 (Aust. Lit.) Assoc. Prof.
 Brissenden, R. F., MA *Syd.*, PhD *Leeds* Sr. Lectr.
 Johnston, G. K. W., MA *N.Z.*, BA *Oxon.* Sr. Lectr.
 Hewitt, Mrs. A. Hope, MA *Syd.*,
 BCom *Melb.* Lectr.
 Jones, E. L., MA *Melb.*, AM *Stanford* Lectr.
 Langman, F. H., BA *Rand* Lectr.
 Ranson, W. S., MA *N.Z.* Lectr.
 1 Tutor†

French, see Mod. Langs.

Geography

..... Prof.
 Rose, A. J., MA *N.Z.* Sr. Lectr.

Geology

Brown, D. A., MSc *N.Z.*, DIC, PhD *Lond.* Prof.
 Campbell, K. S. W., MSc PhD *Q'ld.* Sr. Lectr.
 White, A. J. R., BSc *Adel.*, PhD *Lond.* Sr. Lectr.
 Chappell, B. W., BSc *N.E.* Lectr.
 Crook, K. A. W., MSc *Syd.*, PhD *N.E.* Lectr.
 Williams, K. L., MSc *N.E.* Lectr.
 Sr. Demr.
 1 Lectr.†, 1 Demr.†

German, see Mod. Langs.

History

Clark, C. M. H., MA *Melb.* Prof.
 Baker, D. W. A., MA *Melb.* Sr. Lectr.
 Fry, E. C., BA BEC *Syd.*, PhD Sr. Lectr.
 Fairbairn, G. F., BA *Camb.* Lectr.
 Suttor, T. L. L., MA *Syd.*, PhD Lectr.
 Sr. Tutor
 1 Res. Asst.

Indonesian, see Oriental Studies

Japanese, see Oriental Studies

Law

..... Robt. Garran Prof.
 Richardson, J. E., BA LLM *Melb.* (Pub. L.) Prof.
 Biggs, J. M., LLB PhD *Lond.*, SJD *Harv.* Sr. Lectr.
 Sutton, K. C. T., BA LLM *N.Z.*,
 PhD *Melb.* Sr. Lectr.
 Tarlo, H., MA LLB *Dub.* Sr. Lectr.
 Zines, L. R., LLB *Syd.*, LLM *Harv.* Sr. Lectr.
 Hambly, A. D., LLB *Melb.* Lectr.
 5 Lectrs.†

Mathematics

Lectr. Brown, A., MA *Glas.*, PhD *Camb.* Prof.
 Lectr. van der Borcht, R., DSc *Louvain* Assoc. Prof.
 Lectr. Drummond, J. E., MSc *N.Z.*, BA *Camb.* Sr. Lectr.
 Househam, K. O., BSc *Rand*, MSc *Cape T.*,
 MA *Prin.* Sr. Lectr.
 Miller, J. B., BSc *Syd.*, MA *Camb.*,
 PhD *N.E.* Sr. Lectr.
 Billigheimer, C. E., MA BSc *Melb.* Lectr.
 Fabens, A. J., AB *Harv.*, PhD *Stanford* Lectr.
 Jones, A. R., MA PhD *Melb.* Lectr.
 Newmarch, M. F., MSc *Syd.*, PhD *Manc.* Lectr.
 10 Lectr.†, 3 Tutors†

Modern Languages

Scales, D. P., BA *Syd.*, DUParis (French) Prof.
 Koch-Emmery, E. K. T., MA *Adel.* & *Melb.*,
 PhD *Vienna & Rome* (German) Assoc. Prof.
 Rigby, T. H. R., MA *Melb.*, PhD *Lond.*
 (Russian) Assoc. Prof.
 Sinclair, K. V., MA *N.Z.*, DPhil *Oxon.*,
 Dipl *Inst.dePhon.,Paris*, L&L DU
Paris (French) Sr. Lectr.
 Cizova, Tatjana, BA *Syd.* & *Lond.*, Dipl
 SlavStudies *Oxon.* (Russian) Lectr.
 Graneek, Mrs. M. M., MA *Birm.* Lectr.
 Ireland, P. R., BA *Camb.* (Russian) Lectr.
 Stoljar, Mrs. Margaret J., MA *Melb.*
 (German) Lectr.
 Tury, Ethel E., BA DipEd *W.Aust.*,
 DUParis (French) Lectr.
 Tisch-Wackernagel, J. H., DrPhil *Basle*
 (German) Lectr.
 (French) Lectr.
 Gapanovich, J. J., BA CHist *St.Petersburg*
 (Russian) Temp. Lectr.
 1 Lectr.†, 2 Tutors†

Oriental Studies

Bielenstein, H., FilDr *Stockholm* (Chinese) Prof.
 Ackroyd, Joyce I., BA DipEd *Syd.*,
 PhD *Camb.* (Japanese) Assoc. Prof.
 van der Sprenkel, O. P. N. B., BSc(Econ) *Lond.*
 (Oriental Civilization) Assoc. Prof.
 Backus, R. L., BA *Misch.*, MA *Calif.*,
 PhD (Japanese) Sr. Lectr.
 Johns, A. H., BA PhD *Lond.*
 (Indonesian Langs.) Sr. Lectr.
 Malmqvist, N. G. D., FilLic *Stockholm*
 (Chinese) Sr. Lectr.
 Soebardi, MA *Indonesia*
 (Indonesian & Javanese) Sr. Lectr.
 Wang, L., BA *Natnl.Central(Nanking)*,
 PhD *Camb.* (Chinese) Sr. Lectr.
 (Japanese) Sr. Lectr.
 de Rachewiltz, I., DipOrInst *Naples* Lectr.
 *Loofs, H. H., PhD *Freib.*
 (Oriental Civilization) Lectr.
 (Bahasa Indonesia) Lectr.
 Ito, T., MA *Keio* (Japanese) Sr. Tutor
 Dyer, Mrs. Svetlana Sr. Tutor
 1 Res. Asst., 3 Tutors†

Philosophy

Baier, K. E. M., MA *Melb.*, DPhil *Oxon.* Prof.
Gibson, Q. B., BA *Melb.*, MA *Oxon.* Assoc. Prof.
Benjamin, B. S., BA *Melb.*, BPhil *Oxon.*

Sr. Lectr.

Schlesinger, G., BSc *Lond.*, PhD *Melb.*

Sr. Lectr.

.....

Sr. Lectr.

.....

Sr. Lectr.

1 Lectr., 1 Tutor†

Physics

Dunbar, D. N. F., MSc *N.Z.*, PhD *Melb.* Prof.
Brown, L. O., MSc *N.Z.*, PhD *Edin.* Sr. Lectr.

Mortlock, A. J., MSc *Syd.*, PhD *R'dg.* Sr. Lectr.

..... Sr. Lectr.

Gore, M. M., BSc PhD *Leeds*

(Electronics) Lectr.

..... Lectr.

..... Lectr.

..... Lectr.

Kinnear, R. W. N., MSc *N.Z.* Sr. Demr.

Williams, J. F., BSc *N.E.* Sr. Demr.

1 Demr.†

Political Science

Crisp, L. F., MA *Oxon.* & *Adel.* Prof.

Beddie, B. D., BA *Syd.* Sr. Lectr.

Corbett, D. C., MA *Tor.*, PhD *McG.* Sr. Lectr.

Encel, S., MA PhD *Melb.* Sr. Lectr.

Hume, L. J., MEd *Syd.*, PhD *Lond.* Sr. Lectr.

Holgate, Mrs. Katharine O., BA *Melb.* Lectr.

Wilson, I. F. H., BA *Melb.* Lectr.

Granger, J. H., MA *Camb.* Lectr.

1 Lectr.†

Psychology

Gibb, C. A., MA BEC *Syd.*, PhD *Ill.* Prof.

Pentony, P., MA *W.Aust.*

Assoc. Prof.

Seagrim, G. N., BA *Lond.*, MSc *Melb.* Sr. Lectr.

Cox, F. N., MA PhD *Melb.*, MS *Yale* Lectr.

Middleton, Margaret R., MA *Melb.*

PhD *W.Aust.*

Taylor, D. M., BA *Oxon* Lectr.

Western, J. S., MA *Melb.* Lectr.

Cook, M. L., BSc *Manc.* Sr. Demr.

1 Res. Asst., 1 Demr.

Russian, see Mod. Langs.

Statistics

Hannan, E. J., BCom *Melb.*, PhD Prof.

Heathcote, R. C., BA *W.Aust.*, MA *Melb.*

PhD

Ewens, W. J., MA *Melb.* Sr. Lectr.

Winer, P., BSc *Rand* Lectr.

Morgan, J. H. T., BA *Camb.* Sr. Tutor

1 Lectr.†

Zoology

Smyth, J. D., BA BSc PhD *Dub.* Prof.

Nicholas, W. L., BSc PhD *Liv.* Sr. Lectr.

Hughes, R. D., DIC, BSc PhD Sr. Lectr.

Barwick, R. E., MSc *N.Z.* Lectr.

Clegg, J. A., BSc PhD *Lond.* Lectr.

Tyndale-Biscoe, C. H., MSc *N.Z.* Lectr.

Weatherley, A. H., BSc *Syd.*, MSc *Tas.* Lectr.

Woolley, Mrs. Patricia A., BSc *W.Aust.*

Temp. Lectr.

Tait, N. N., BSc *Syd.* Sr. Demr.

2 Res. Assts. •

ADULT EDUCATION •

Crew, B. H., BA DipEd *Q'ld.*

Resident Staff Tutor

ADMINISTRATIVE AND OTHER STAFF

Assoc. Librarians : N. Stockdale, BA *Melb.* ;
Clare Campbell-Smith, BA DipEd *Tas.* Asst.
Registrar (Pub. Relns.) : G. A. B. Docker, MA
Oxon. Asst. Registrar (Sch. of General Studies) :
C. G. Plowman, BEC *Syd.* Asst. Registrar :
D. W. Smith, BCom LLB *Melb.* Sr. Grad. Asst. :
E. P. Thomas, BSc(Econ) *Lond.* Registrar's
Asst. (Sch. of General Studies) : T. J. Keith.
Grad Assts. (Sch. of General Studies) : Mary
G. C. Bouquet, BA DipEd *Syd.* ; D. N. Kennard,
BA *N.E.* Accountant : J. Ryan, BCom
Q'ld. Asst. Accountant : Lois A. Bellingham,

BCom *Q'ld.* Accounting Officer : P. W. Brett.
Univ. Architect : B. A. J. Litchfield, FRAIA.
Lab. Manager (Phys. Scis.) : A. A. Robertson,
BE *Adel.* Business Manager (Med. Res.) : W. H.
Goddard. Technical Manager (Med. Res.) :
J. B. Wight. Student Counsellor : Assoc. Prof.
P. Pentony, MA *W.Aust.* Student Advisers :
R. F. Brissenden, MA *Syd.*, PhD *Leeds* ; C.
Forster, BCom *Melb.*, PhD ; W. L. Nicholas,
BSc PhD *Liv.* ; H. Tarlo, MA LLB *Dub.*
Warden of Hall of Residence : W. P. Packard,
MA *N.Z.*

GENERAL INFORMATION

The Australian National Univ. was founded by an act of parliament of the Commonwealth of Australia in 1946. The act provided for the establishment in Canberra of a univ. consisting of a council and convocation, and grad. and undergrad. members. The prime function of the univ.

was to undertake postgrad. res., incl. the trg. of grad. students. No undergrad. members were enrolled until 1960 when, by amending legislation to the act, the Canberra Univ. Coll. became part of the univ. Canberra Univ. Coll. was established in 1929 by an ordinance of parliament as a teaching

instn. whose undergrad. members were prepared for degrees of the Univ. of Melbourne. The emphasis on res. is maintained under the new organization, the former work of the univ. being continued in the Inst. of Advanced Studies while the work of the coll. in teaching and res. is continued in the Sch. of General Studies. The resources of the univ., whilst serving the rapidly growing needs of Canberra, will be developed to make a univ. which will be national at all levels.

CONSTITUTION. The council, on the incorporation of the coll., was enlarged from not more than 30 members to not more than 38 incl. the vice-chancellor, 4 members elected by parliament, up to 12 apptd. by the governor-general, up to 4 elected by convocation, 8 elected by the academic staff (of whom 2 will be dirs. of research schs. and 2 deans of facs.), and 2 by students. The sr. academic bodies are the bds. of the inst. and of the sch.; there is also a professorial bd. which includes all full profs. in the univ. and which is advisory and does not meet regularly. The bd. of the Inst. of Advanced Studies is responsible to council for matters relating to doctoral degrees and the bd. of the Sch. of General Studies for matters relating to the degrees of bachelor and master. Candidates for doctoral degrees are, however, supervised by members of either the inst. or the sch. as is appropriate. Convocation will eventually consist mainly of the council and grads. of the univ., but at the outset the opportunity was taken to add to it the chancellor and vice-chancellor and 5 other representatives of each other Australian univ. instn.; following the amendment to the Australian National Univ. Act in 1960 further names have been added to convocation (in addition to all former members of council of the Canberra Univ. Coll., members of staff, and grads. of 3 yrs.' standing who obtained a degree through the coll.) incl. members of parliament who have degrees and members of learned societies.

INCOME (1960). Running expenses of inst.: £A1,847,883 (Commonwealth govt. grants, 96·3 per cent.; rentals, 3·3 per cent.; fees and sundries, 0·4 per cent.). Commonwealth govt. grants for capital works, £A585,866. Sch. (1960): £A511,600 (Commonwealth govt. grants, 93·4 per cent.; fees, 6·3 per cent.; other, 0·3 per cent.).

UNIVERSITY PRECINCT. The univ. site consists of 340 acres of well-situated land in the Canberra district of Acton. The first permanent bldg. erected was the lab. of the Res. Sch. of Phys. Scis. University House, which provides collegiate accomm. for about 160 single staff members and grad. students, was opened in 1954. The permanent labs. for the John Curtin Sch. of Med. Res. were completed in 1956, and a start has been made with the res. library bldg. Plans are in hand for a permanent bldg. for the Res. Schs. of Soc. Scis. and Pacific Studies. Prelim. planning is proceeding for a maths. bldg. and for admtl. accomm. at Mt. Stromlo Observatory, which was transferred in 1956 from the Commonwealth to

the univ. and is now the dept. of astron. The observatory is 9 miles from the city. Up to 1960 the Canberra Univ. Coll. was housed in temp. quarters. In June 1960, the coll. occupied its first permanent bldg. to accommodate arts depts.; a phys. bldg. and a hall of residence planned by the coll. were completed in 1961 for the Sch. of General Studies. Tenders for a chem. bldg. have been called; bldgs. for zool., geol. and bot. are at planning stage. Bldgs. for the General Studies lib., a union and oriental studies (first stage) are also planned for 1961-63 triennium.

LIBRARIES. Inst. lib.: 132,000 bound vols., and about 25,600 vols. in oriental collection. General studies lib.: 71,000 vols. incl. oriental collection of 21,000 vols.

INSTITUTE OF ADVANCED STUDIES. As was contemplated by the act of 1946, the univ.'s activities were in the first instance concentrated on the 4 res. schs. named in the act—the John Curtin Sch. of Med. Res. (named after Australia's war-time prime minister), and Res. Schs. of Phys. Scis., Soc. Scis. and Pacific Studies. It is intended that each sch. should be led by a dir., but the responsibility for the organization of the work of particular depts. within the schs. will rest with their professorial hds. Dirs. have been apptd. in 3 schs., but in the John Curtin Sch. of Med. Res. a dean is apptd. In addition to the dirs. and profs. the staff comprises permanent readers, sr. fellows and fellows, and short-term sr. res. fellows and res. fellows. The univ. seeks to provide members of staff with the most favourable conditions for res. They have their whole time available for res., their teaching and admin. duties being of a quite minor kind. They have opportunities to move about among their colleagues in Australia and the permanent staff has generous provision for study leave.

THE SCHOOL OF GENERAL STUDIES is largely concerned (apart from the res. interests of its staff) with undergrad. teaching, although the staff, together with the staff of the inst., supervises students for higher degrees. There are four facs.—arts, econ., law and sci.—each with a dean. Deans of facs.: arts, Prof. A. D. Hope (English); econ., Prof. B. D. Cameron; law, Prof. H. A. J. Ford; sci., Prof. J. D. Smyth (zool.). Within the fac. of arts there is a sch. of oriental studies which provides courses in the Bahasa Indonesia, Chinese and Japanese langs., and in oriental civilization.

ADMISSION. Each dept. of the res. schs. of the inst. accepts a no. of grad. res. students of first-class calibre, the general minimum entrance qualif. being a good hons. degree from a recognized univ. and evidence of capacity for res.

For admission to the sch., see Appendix III.

FIRST DEGREES. 3 yrs.—BA pass, BEC pass, LLB pass, BSc pass. 4 yrs.—BA hons. (more intensive than pass degree and more thorough trig. in one of following hons. schs.: Greek, Latin, Engl., French, German, Russian, hist., maths.,

Chinese studies, Japanese studies, S.-E. Asian studies, philos., pol. sci., psychol., econ., mathl. stats.), BEC hons. (students take pass course with distinction work in more important units; in fourth yr. hons. students specialize in 1 of the 4 subjs. of the fac.: econ., pol. sci., stats., econ. hist.), LLB hons. (course as for pass degree with final hon. exam. held about 3 mos. after completion of course); BSc hons. (students attaining high standard in first 3 yrs. of course may be admitted to hons. yr. to specialize in 1 of following: bot., chem., geol., maths., phys., psychol., zool.). Pass degrees can be taken on the basis of pt.-time attendance at the sch. For hons. students in arts, econ. & sci., fourth yr. must be taken full-time.

HIGHER DEGREES. MA, MEd, LLM, MSC (2 yrs., exam. and thesis for pass grads.; 1 yr. and thesis for hons. grads.). Pt.-time students may be required to undertake longer candidatures. For PhD, each student pursues course of res. under supervision and, subject to certain conditions, may proceed to degree, normally after 3 yrs.' work DLitt, DSc and LLD are conferred for distinguished work in appropriate fields publ. by persons with a substantial connection with univ.

HONORARY DEGREES. Persons of distinguished eminence in learning or in pub. service may be admitted to degrees of DLitt, DSc or LLD *honoris causa*.

The univ. does not award EXTERNAL DEGREES.

STUDY LEAVE. Profs. of the inst. may take a yr.'s study leave with full salary in each 4 yrs. of service, readers and sr. fellows in each 6 yrs. of service and fellows in each 7 yrs. of service. Substantial travel allowances granted. In the sch., full-time members of academic staff are eligible for 1 yr. on full pay after 6 yrs.' service. The sch. also has a scheme of financial assistance towards study leave.

FEES. *Inst.*: £A53:11s. (covers all charges except board and residence). *Sch.*: matric or status fee—£A2:2s. Degree courses (per unit)—arts and econ. units: £A27; law subjs.: £A12 to £A27; sci. units: 1st yr. £A27, 2nd yr. £A54, 3rd yr. £A54. Approx. total cost of courses—arts, econ. and sci.: pass degree £A270, hons. degree £A351; law pass and hons. degrees: £A408. Higher degree courses—approx. £A30 p.a. plus status fee on admission.

ACADEMIC YEAR. Early March to early Dec.: 3 terms of 10, 9 and 14 wks

ADULT EDUCATION. In the Sch. of General Studies a dept. of adult educn. was introduced in 1959. The staff tutor also organizes adult educn. activities in southern New South Wales in assocn. with the dept. of tutorial classes, Univ. of Sydney. Resident Staff Tutor: B. H. Crew, BA DipEd Q'ld.

SCHOLARSHIPS. The univ. offers a no. of scholps. in the inst. annually to support specially able students working for the PhD in the univ. Emoluments vary according to scholar's circumstances, but present basic rate is £A925 p.a. Students with appropriate medical qualifs. receive £A1347 p.a. Addnl. discretionary allowances may be paid to married scholars with children.

The univ. from time to time issues invitations to distinguished sr. scholars to visit Australia; such visitors undertake their own work, lecture and lead seminars with interested people not only in Canberra but in the other Australian univs.

Principal open awards for study in the sch.: natnl. undergrad. scholps.; oriental studies scholps. for Australian students preparing for first degree or who have a degree but wish to pursue oriental studies in the sch. at undergrad. level. Commonwealth scholps. (see pp. 12-13) and New South Wales teacher trg. scholps. also tenable in the sch.

RESIDENCE. Students of the *inst.* are normally required to live in University House. Fees range from £A8:18s.:6d. to £A11:11s. (married couple, £A17:17s.) per wk. according to type of accomm. Master of University House: Prof. A. D. Trendall, CMG, *MA Camb. & N.Z.*, LittD *N.Z.*, Hon. LittD *Melb.*, Hon. DLitt *Adel.*, FSA.

In the *sch.* the first hall of residence to accomm. 160 students (117 men, 43 women) was occupied in Feb. 1961. Fees, £A245 (reducible to £A230 if terminal payments made by due dates) per academic yr. Applicns. for residence must be lodged by Nov. 1 each yr. Warden: W. P. Packard, *MA N.Z.* Accomm. in hostels and lodgings also available.

PUBLICATIONS. *Calendar*, £A1; *Faculty Handbook*, 6s.; *Annual Report*, 4s.; *A.N.U. News* (free), every few months; *Protheus* (students' mag.), annual, 5s.; *Woroni* (students' newspaper), fortnightly each term; *Magurall Lectures*, *Commonwealth Literary Fund Lectures*; *Morrison Oration*

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS. *Bldgs. completed*: arts bldgs. (School) *Approaching completion*: hall of residence (to accomm. 117 men, 43 women); physics bldgs. (School)

RETIREMENTS. A. L. G. McDonald (librarian).

RESIGNATIONS. Sir Leslie Melville (vice-chancellor), apptd. chairman of Tariff Bd.

Institute

NEW DEPARTMENTS AND CHAIRS. Dept. and chair of maths. in Sch. of Phys. Scis.

RESIGNATIONS. D. W. Rawson (pol. sci.), apptd. reader in pol. sci., Q'ld.

School

RESIGNATIONS. G. Hughes (German), to Union Repertory Theatre, Melbourne; Helga Gaertner (German), on marriage.

Statistics

STUDENT NUMBERS, 1961

Institute

Men, 137; women, 13. Total, 144.

All were full-time postgraduate students.

These figures include students from other countries (19 from N.Z.; 18 from U.K.; 8 from India).

School

	<i>Full-Time</i>	<i>Part-Time</i>
Men . .	204	523
Women . .	109	125
Total .	313	648

Distribution by Fields of Study. *Arts*, 460 *econ.*, 293; *law*, 76; *sci.*, 132. Total: 961.

Included in the figures above are :—

Postgraduate students, 52.

New admissions, 387.

Students from other countries, 26. (Country from which largest number came: Thailand, 4).

Not included above are 19 non-exam. and 2 sp. course students.

DEGREES AWARDED (1960). John Curtin Sch. of Med. Res.: PhD, 3. Res. Sch. of Phys. Scis.: PhD, 6. Res. Sch. of Soc. Scis.: PhD, 5. Res. Sch. of Pacific Studies: PhD, 6.

Degrees of Univ. of Melbourne awarded to students of former Canberra Univ. Coll.: *Arts*: BA, 14; MA, 1. *Comm.*: BCom, 15. *Law*: LLB, 1. *Total number of first degrees awarded*, 30.

DIPLOMAS AWARDED (1960) (by Univ. of Melbourne). DipPubAdmn, 1.

UNIVERSITY OF MELBOURNE*

Founded and incorporated 1853

Postal Address : Parkville, N.2, Victoria, Australia

Cables and Telegrams : Melbourne University, Parkville, Victoria

Telephone : Melbourne, 34 0484

VISITOR—H.E. THE GOVERNOR OF VICTORIA, SIR DALLAS BROOKS, KCB, KCMG, KCVO, DSO, Hon. LLD

CHANCELLOR—Hon. Sir ARTHUR DEAN, LLM

DEPUTY-CHANCELLOR—C. M. GILRAY, OBE, MC, BA N.Z., MA Oxon. & Melb., Hon. LLD

VICE-CHANCELLOR—Professor Sir GEORGE W. PATON, Hon. LLD Glas., Syd. & Q'ld., Hon. DCL W.Ont., BA BCL Oxon., MA

PRO-VICE-CHANCELLORS—Professor Sir ARTHUR AMIES, CMG, DDSc DLO, FRCSEd, FRACS, FDSRCS, FDSRCSed, FACD; Professor E. S. HILLS, DIC, PhD Lond., Hon. DSc Dunh, DSc, FAA, FRS

REGISTRAR—FRANK HORACE JOHNSTON, JP, BA BCom

DEAN OF GRADUATE STUDIES—J. S. ROGERS, MC, BA DSc DipEd, FIP

ACCOUNTANT—R. A. CUMMING, BCom

ASSISTANT REGISTRAR—A. J. G. WILLIAMS, BArch

ACADEMIC SECRETARY—J. C. WOODHOUSE, BA Syd.

OFFICER-IN-CHARGE, SCIENTIFIC, MEDICAL AND TECHNICAL BRANCH—F. G. ELFORD, BSc BEd

LIBRARIAN—K. A. LODIEWYCKS, BA

TEACHING STAFF.

[†=Part-Time]

Accountancy

Goldberg, L., BA MCom, FASA, FCAA Prof.

Johnston, T. R., PhD Camb.,

LLM BCom N.Z.

Reader

Kerr, Jean St. G., MSc Col., BCom Sr. Lectr.

Holmes, E. M., BCom, FCA Sr. Lectr.

Samek, R. A., MA LLitt LLB Camb.,

MCom

(Comm. Law) Sr. Lectr.

Voumard, L. C., BA LLB

(Comm. Law) Sr. Lectr.

McMahon, B. J., BCom

Lectr.

Jager, M. O., BCom

Lectr.

Topp, A. G., BCom

Sr. Tutor

Saunders, Joan W., BCom

Tutor

30 Officers†

Agriculture, see also Bot.

Forster, H. C., PhD Iowa, MAgrSc Prof.

Leeper, G. W., MSc Assoc. Prof.

Tribe, D. E., BSc(Agric) R'dg., PhD Aberd.

(Physiol. of Domestic Animals) Reader

Hird, F. J. R., PhD Camb., MAgrSc

(Agric. Biochem.) Reader

Vasey, G. H., BCE (Agric. Engin.) Reader

Aitken, Yvonne, MAgrSc Sr. Lectr.

Tulloch, N. M., MAgrSc (Animal Husband.) Sr. Lectr.

Wilson, J. H., PhD Lond., BAgrSc Sr. Lectr.

Lloyd, A. G., BEc Syd. (Agric. Econ.) Sr. Lectr.

Presser, H. A., BA (Rural Sociol.) Sr. Lectr.

Smith, D. F., BAgrSc Adel. Lectr.

Briner, G. P., BSc W.Aust., (MSc N.E., PhD

(Agric. Chem.) Lectr

Ross, Mary M., BSc N.Z. Sr. Demr.

Cashmore, A. B., MSc Adel. Admin. Asst.

16 Officers†

Anatomy

Ray, L. J., MB BS PhD Prof.

Russell, K. F., MB MS, FRACS

Reader in Med. Hist., Assoc. Prof.

Lavarack, J. O., MB BS PhD

(Embryol. & Histol.) Reader

Roche, A. F., MB BS PhD Sr. Lectr.

Kenny, G. C. T., MB BS Q'ld. Sr. Lectr.

Merrillees, N. C. R., MB BS

(Embryol. & Histol.) Sr. Lectr.

Dunlop, C. W., MSc Adel., PhD

(Embryol. & Histol.) Sr. Lectr.

Anthropology

Thomson, D. F. F., OBE, PhD Camb.,

DipAnthrop Camb. & Syd., DSc

Univ. Res. Fellow

* Member of the Association of Universities of the British Commonwealth

Applied Science

Greenwood, J. N., DSc *Manc. & Melb*,
MMetE

Gaff, D. F., MSc Sr. Demr.
Thrower, Mrs. Stella L., BSc Sr. Demr.
Duigan, Suzanne L., PhD *Camb.*, MSc Sr. Res. Officer

Architecture and Building

Lewis, B. E., MA(Arch) *Liv.*, PhD *Lond.*,

BArch, FRIBA, FRAIA Prof.
Berg, R., DipArchDes, FRAIA Sr. Lectr.
Waugh, H. L., BArch, FRAIA Sr. Lectr.
Janeba, F. A., DegArch *Vienna*, MArch Sr. Lectr.
Parker, R. G., DipArch *Liv.*, FRIBA, FRAIA Sr. Lectr.
Hammerschmidt, C. A. C., DegArch *Copen-*
hagen Sr. Lectr.
Barton, D. C., BArch Sr. Lectr.
Strizic, Z., DegEng-Arch *Berl.*, MArch Sr. Lectr.

Morton, J. C., BArch Sr. Lectr.
Saunders, D. A. L., BArch DipTRP Sr. Lectr.
McDowall, I. C., MSc N.Z. Res. Fellow
Alexandra, D. D., BArch Lectr.
Coldicutt, E. B., MSc DipEd Lectr.
Saini, B. S., BA *Panj.*, BArch Lectr.
Quarry, N. D., BArch *Rice* Lectr.
31 Lectrs.†

Bacteriology, see Medicine**Biochemistry**

Trikojus, V. M., DSc *Syd.*, DPhil *Oxon.*,
MSc, FAA Prof.
Rawlinson, W. A., MSc Assoc. Prof.
Legge, J. W., MSc Reader
Hird, F. J. R., PhD *Camb.*, MAgrSc
(Agric. B.) Reader
(Clin. B.) Sr. Lectr.
Cahn, Mrs. Audrey J., BAgSc DipDiet
(Nutrition & Appl. Dietetics) Sr. Lectr.
McQuillan, Mary T., MSc PhD Sr. Lectr.
Crabtree, Muriel G., MSc Lectr.
Henderson, R. W., BSc PhD Lectr.
Marginson, M. A., BSc Lectr.
Stone, B. A., PhD *Lond.*, BSc Lectr.
Todd, P. E. E., BSc PhD Lectr.
Birt, L. M., DPhil *Oxon.*, PhD BSc
BAgrSc Lectr.
Finch, L. R., PhD BSc *W.Aust.* Lectr.
..... Sr. Demr.
..... Sr. Demr.
Davidson, B. E., BAgSc Demr.
3 Officers†

Botany and Plant Physiology

Turner, J. S., MA PhD *Camb.*, MSc, FAA Prof.
Specht, R. L., MSc PhD *Adel.* Reader
Blackwood, Margaret, PhD *Camb.*, MSc

..... Sr. Lectr.
Rowan, K. S., PhD *Camb.*, MSc Sr. Lectr.
Neales, T. F., MA *Oxon.*, PhD *Lond.* Sr. Lectr.
Ducker, Sophie C., MSc Sr. Lectr.
Thrower, L. B., MSc Lectr.
Ashton, D. H., BSc PhD Lectr.
Chambers, T. C., MSc N.Z., PhD *Syd.* Lectr.
Everson, R. G., BSc *Syd.* Sr. Demr.

Chemistry

Davies, W., DSc *Manc. & Melb.*,
DPhil *Oxon.*, FRACI (Org. C.) Prof.
Buchanan, A. S., BSc PhD, FRACI (Phys. C.) Prof.
Cooke, R. G., DSc *Adel.*, MSc, FRACI (Org. C.) Reader
Duncan, J. F., MA DPhil DSc *Oxon.*,
MSc, FRACI (Radiochem.) Reader

Senior Lecturers

Anderson, J. R., BSc N.S.W., PhD *Camb.* (Phys. C.)
Stranks, D. R., MSc PhD (Phys. C.)
Stephenson, Emily F. M., PhD *Glas.*,
MSc (Org. C.)
Johns, R. B., MSc N.Z., PhD *Camb.* (Org. C.)
O'Donnell, T. A., MSc PhD (Inorg. & Phys. C.)
Fensham, P. J., PhD *Brist.*, MSc (Inorg. & Phys. C.)

Lecturers

Casey, A., BA *Manit.*, MSc *Br.Col.*,
PhD *Camb.* (Inorg. & Phys. C.)
Craig, R. A., MSc (Inorg. & Phys. C.)
Radford, Joan T., BSc (Inorg. & Phys. C.)
Hyde, B. G., BSc *Brist.* (Phys. C.)
Porter, Q. N., MSc PhD (Org. C.)
Barraclough, C. G., PhD *Lond.*, MSc (Phys. C.)
McTigue, P. T., DPhil *Oxon.*, MSc (Phys. C.)

Senior Demonstrators

Owen, W. R., MSc *Q'ld.*
Middleton, S., BSc
Changfoot, J., MSc *Rand.*
Humphray, A. A., BSc *Syd.*
Mackay, Maureen F., BSc *Syd.*
Cooper, R., BSc PhD *Leeds*
Johnson, B. L., MSc

Teaching Fellow

Baker, B. G., BSc

Demonstrators

Sterns, Meta, MSc
Wilks, W. D. J., BSc DipEd
Thomas, F. G., MSc
Robb, W., MSc *Rand.*
Heraud, Valda, BSc *BEd*
James, S. D., BSc *Wales*, PhD *Lond.*
Kamphausen, H. A.
1 Officer†

Classical Studies

Hunt, H. A. K., MA *Oxon.*, BA *Syd.*,
LittD DipEd Prof.
Gellie, G. H., MA *BEd* Reader
Quinn, K. F., BA N.Z., MA *Camb.* Reader
Barbour, R. R. P., BA *Q'ld.*, MA *Oxon* &
Melb. Sr. Lectr.

Johnson, R. St. C., MA DipEd *Syd.*
(on leave) Lectr.
McKay, K. J., MA Lectr.
Martyn, J. R. C., BA *Camb.* Lectr.
Titchener, J. B., AB PhD *Ill.*
Visiting Fulbright Lectr.

2 Officers†

Commerce

Isaac, J. E., PhD *Lond.*, BCom Prof.
Bayne, Mary M., MA DipEd Actg. Prof.
Corden, W. M., PhD *Lond.*, BCom Sr. Lectr.
Wilson, R. K., PhD *A.N.U.*, BA *N.Z.*,
MA *Lond.* Lectr.
Woods, C. S., BCom Lectr.
Donath, E. J., MA *Vienna* Sr. Tutor
Pulver, S., PhD *Vienna* Sr. Tutor
3 Tutors, 5 Officers†

Criminology

Johnston, S. W., BA LLB Sr. Lectr.-in-Charge
1 Tutor, 8 Officers†

Dental Science, see below

Dutch, see Germanic Langs.

Economic History

Woodruff, W., MA DipEcon&PolSc *Oxon.*,
BSc(Econ) *Lond.*, PhD *Nott.*, MCom
(on leave) Prof.
Dunsdorfs, E., DEc *Riga*, MA MCom
Sr. Lectr., Actg. Hd of Dept.
Sinclair, W. A., DPhil *Oxon.*, MCom Sr. Lectr.
Clarkson, L. A., BA *Nott.* Lectr.
Killip, J. H., MA *St.And.* Lectr.
Bain, N., BCom Actg Lectr.
Macneil, I. P., BCom Tutor
Beever, E. A., BA *Oxon.* Tutor
1 Tutor†

Economic Research

Downing, R. I., DipEc *Camb.*, BA Prof.
Little, A. J., BA *Nott.*, MCom
(on leave) Res. Officer

Economics

Prest, W., MA *Leeds*, MA(Com) *Manc.*,
MCom Prof.
Polglaze, Muriel J., MBE, MCom Assoc. Prof.
Blakey, K. A., BA *N.Z.*, MSc(Econ) *Lond.*,
DPhil *Oxon.* Reader
Boxer, A. H., BPhil *Oxon.*, BA Sr. Lectr.
Perkins, J. O. N., MA PhD *Camb.* Sr. Lectr.
Frearson, K. S., BA *W.Aust.* Lectr.
Harper, R. J. A., BCom Lectr.
Prowse, A. R. G., BCom Lectr.
Elliott, Barbara, BCom Sr. Tutor
Riach, P., BCom Sr. Tutor
Bentick, B. L., BCom Sr. Tutor
11 Tutors

Education

Frederick, W. H., Dipl *Cours de Civilisation*,
Paris, MA DipEd Prof.
Aughterson, W. V., PhD *Lond.*, MA
DipEd Assoc. Prof.
French, E. L., BA BEd PhD Sr. Lectr.
Austin, A. G., MC, BA MED Sr. Lectr.
Bradshaw, G. D., BA BSc DipEd *W.Aust.*
Falk, Mrs. Barbara, MA DipEd *Oxon.* Sr. Lectr.
Esson, T. H., BA DipEd Sr. Lectr.
Morey, Elwyn A., PhD *Calif.*, MA BEd
Hannah, Wilma D., MA BEd Sr. Lectr.
Dow, Mrs. Gwyneth M., BA BEd Lectr.
Wykes, Olive, MA MED Lectr.
Curry, N. G., BA BEd Lectr.
Palmer, Kathleen I., BA BEd Lectr.
Turner, M. L., BSc BEd Lectr.
Anderson, D. S., MA Educn. Res. Officer
Battersby, Olive, BA Sr. Tutor, Librarian
Deasey, M. K., MA *Camb. & Melb.*,
CertdeFrançais *Paris*, DipEd Sr. Tutor
1 Tutor, 17 Officers†

Engineering, see below

English Language and Literature

Maxwell, I. R., BLitt *Oxon.*, BA LLB Prof.
Macartney, K. L., MA *Camb.*, BA Assoc. Prof.
Jennings, Vera C., MA *Oxon. & Melb.* Sr. Lectr.
Dobson, T. P., BA *Camb. & Melb.*
(on leave) Sr. Lectr.
Goldberg, S. L., BLitt *Oxon.*, BA Sr. Lectr.
Buckley, V. T., MA Sr. Lectr.
Cole, A. S., BA *Bowdoin*, PhD *Dub.* Sr. Lectr.
Tomlinson, T. B., BA *W.Aust. & Camb.*,
LLB *W.Aust.* Lectr.
Tomlinson, Mrs. Mary T., BA (on leave) Lectr.
Dow, H., AB *Hav.* (Rhetoric) Lectr.
Wallace-Crabbe, C., BA
(Creative Writing & Aust Lit.)
Lockie Fellow
Tennent, Amy G. C., MA DipEd Lectr.
Moody, A. D., BA *N.Z. & Oxon.* Lectr.
Cowling, Mrs. Muriel M., BA *Leeds*,
DipEd Sr. Tutor
Cubbon, Winifred M., MA Teacher's Dip
Manc. Sr. Tutor
Price, Gillian, BA Sr. Tutor
Wilson, Phillipa, BA *Camb. & Adel.* Sr. Tutor
Steele, W. B., BA *Durh. & Melb.*, DipEd
LMus Sr. Tutor
4 Tutors, 1 Officer†

Experimental Neurology, see Medicine

Fine Arts

Burke, J. T., OBE, MA *Lond.*, *Yale & Melb.* Prof.
Philipp, F. A., BA Sr. Lectr.
Smith, B. W., BA *Syd.*, PhD *A.N.U.* Sr. Lectr.
Course, L. J., BA Lectr.
2 Tutors, 1 Officer†

Forestry

Chinner, J. H., BSc *Oxon. & Melb.*
 Reader-in-Charge
 Leslie, A. J., BScF (For. Management) Lectr.
 7 Officers†

French

Jackson, R. F., BA *Syd.*, MA Prof.
 Canart, P. L. J. G., BA (Philol.) Sr. Lectr.
 Laufer, R. M. A. Sr. Lectr.
 Lawler, J. R., DU*Paris*, MA Sr. Lectr.
 McCormick, C. A., BA *Camb.* (Italian) Sr. Lectr.
 Scott, S. J., MA PhD Sr. Lectr.
 MacBain, W., MA PhD *St. And.* Sr. Lectr.
 Politi, V., DottLett *Turin* (Italian) Lettore
 Burger, Mrs. Claire H., MA Lectr.
 Just, F. P., DU*Paris*, BA Lectr.
 Holland, A. K., BA *Syd.*,
 Dipd'Et *Bordeaux* Lectr.
 Gundolf, Cordelia, DottLett *Rome*
 (Italian) Lectr.
 Giroux, Micheline, L&L Dipd'EtSup Lectr.
 Brady, P. S., BA *Syd.*, DU*Paris* Lectr.
 Comin, G. A. A., BA *Syd.* (Italian) Lectr.
 McPhee, Kathleen H., MA DipEd Sr. Tutor
 Casey, T. R., MA DipEd Sr. Tutor
 Roper, M., L&L (on leave) Sr. Tutor
 4 Officers†, 2 Tutors

Geography

Andrews, J., BA *Syd.*, PhD *Camb.*, MA Prof.
 Wilcock, A. A., BSc BED Sr. Lectr.
 Cochrane, G. R., MA BSc N.Z. Sr. Lectr.
 Coghill, I. G., MA *Camb.*, BCom Lectr.
 Double, K. W. W., MSc *Belf.* Lectr.
 Wilson, M. G. A., MA N.Z. & Wis. Lectr.
 Prescott, J. R. V., MA *Durh.* Lectr.
 Smith, R. H. T., BA N.E., MA *North-*
western Lectr.
 Ryan, Julia M., BA *Syd.* Demr.
 Britton, J. N. H., BA *Syd.* Demr.
 2 Officers†

Geology and Mineralogy

Hills, E. S., DIC, PhD *Lond.*, Hon. DSc
Durh., DSc, FAA, FRS Prof.
 Tattam, C. M., PhD *Lond.*, ScD *Colorado*
Sch. of Mines, BSc Assoc. Prof.
 Kerr Grant, C., BA *Camb.*, BSc *Adel.*
 (Geophys.) Reader
 Singleton, O. P., MSc *Melb.*, PhD *Camb.* Sr. Lectr.
 Beavis, F. C., BSc PhD Sr. Lectr.
 Mathews, R. T., MSc *Q'ld.* Sr. Lectr.
 McLaughlin, R. J. W., MSc N.Z.,
 PhD *Camb.* Sr. Lectr.
 Marsden, M., BSc Lectr.
 Oliver, C. D., MSc *Brist.* Lectr.
 Thomas, G. A., BSc Lectr.
 Brown, M. C., BSc Sr. Demr.
 Finlay, Cecily, BSc *Syd.* Res. Asst.
 4 Demrs.

Germanic Languages

Samuel, R. H., DrPhil *Berl.*, PhD *Camb.*,
 MA Prof.
 Coverlid, Dorothea R., MA DipEd Reader
 Smit, J., LittD *Utrecht*, MA
 (Dutch & German Philol.) Reader
 Wiemann, H., MA PhD (German) Sr. Lectr.
 Maclean, H., MA PhD DipEd (German) Sr. Lectr.
 Meijer, R. P., MA *Amst.*, PhD (Dutch) Sr. Lectr.
 Ruff, Eva, MA (German) Lectr.
 Schulz, G., PhD *Leip.* (German) Lectr.
 2 Tutors, 4 Officers†

History

Crawford, R. M., BA *Syd.*, MA *Oxon.* &
Melb. Prof.
 La Nauze, J. A., BA *W. Aust.*, MA *Oxon.*
 & *Melb.* Ernest Scott Prof.
 Fitzpatrick, Kathleen E., MA *Oxon.*, BA
 Assoc. Prof.
 Harper, N. D., MA BED (on leave) Assoc. Prof.
 O'Brien, J. L., BA *Camb. & Syd.*, MA Sr. Lectr.
 McBriar, A. M., DPhil *Oxon.*, BA Sr. Lectr.
 Main, J. M., BLitt *Oxon.*, BA Sr. Lectr.
 Gibbs, Marion, BA BLitt *Oxon.* Sr. Lectr.
 Gardiner, L. R., BA *Brist.* Sr. Lectr.
 Mulvaney, D. J., BA *Camb.*, MA Sr. Lectr.
 Gregory, J. S., PhD *Lond.*, MA Sr. Lectr.
 Martin, A. W., PhD *A.N.U.*, MA *Syd.* Sr. Lectr.
 Kennedy, D. E., PhD *Camb.*, MA Lectr.
 Robertson, I. G., BA *Bphil Oxon.* Lectr.
 Gough, A. G., BA Actg. Lectr.
 Lundie, Jennifer J., BA Sr. Tutor
 9 Tutors, 6 Officers†

History and Philosophy of Science

Dyason, Diana, MSc Sr. Lectr.-in-Charge
 Clendinnen, F. J., BA Sr. Lectr.
 Ellis, B. D., BA BSc *Adel.*, BPhil *Oxon.* Sr. Lectr.
 Bryant, F., BA MSc Lectr.
 Gasking, Mrs. Elizabeth B., BSc *Liv.*, MA Lectr.
 Trengove, L., BD MSc PhD *Lond.* Lectr.
 Pottage, J. C., BA Sr. Tutor
 1 Tutor

Indian Studies

Ayyub, A. S., MA *Calc.* Hd. of Dept.

Indonesian and Malayan Studies

Mackie, J. A. C., MA *Oxon.*, BA
 Sr. Lectr.-in-Charge
 Sarumpaet, J. P., BA *Gadjah Mada*,
 MA *Exe* Lectr.

Industrial Relations

Isaac, J. E., PhD *Lond.*, BCom Reader-in-Charge
 8 Officers†

Islamic Studies, see Semitic Studies

Languages (Science Courses)

Horwood, E. K., MA Sr. Lectr.-in-Charge
 Rodgers, Anita H., LLD *Gessen* Sr. Lectr.
 Zatorskii, R. J., BA (Sci. Russian) Lectr.
 Meyers, Mrs. Gerda, MA Lectr.

Law

Cowen, Z., MA BCL *Oxon.*, BA LL.M
 (Public L.) Prof.
 Derham, D. P., MBE, BA LL.M
 (on leave) (Jurispr.) Prof.
 Ford, H. A. J., SJD *Harv.*, LL.M
 (Comm. L.) Prof.

Turner, A. L., BA LL.M
 (Jurispr.) Actg. Prof., Reader
 Leyser, J., DJur *Freib.*, LL.B
 (Compar. & Internat. L.) Reader
 Brett, P. B., LL.B *Lond.*, LL.M *W.Aust.*,
 SJD *Harv.* Sr. Lectr.
 Downer, L. J., MA *Oxon.*, BA LL.B *Syd.*
 (on leave) Sr. Lectr.

Mackay, D. F., DPhil *Oxon.*, MA Sr. Lectr.
 Maher, F. K. H., MA LL.B Sr. Lectr.
 Sharwood, R. L., LL.M *Calif.*, BA LL.B

Mendes da Costa, D., LL.B *Lond.* Sr. Lectr.
 Waller, P. L., BCL *Oxon.*, LL.B Sr. Lectr.
 Feltham, J. D., MA *Oxon.*, BA Sr. Lectr.
 Morgan, J. Du V. C., BA *Camb.* Sr. Tutor
 2 Tutors

Special Lecturer

Phillips, P. D., QC, MA LL.B

†Independent Lecturers

McInerney, M. V., QC, MA LL.M
 (Proced. & Evidence)
 Young, J. McL., MA *Oxon.*, LL.M (Company L.)
 Searby, R. H., BA *Oxon.* (Executors & Trustees)
 Norris, Rosemary A., LL.B (Conveyancing)
 Emmerson, K. A. M., BA LL.B (Taxation)
 Heymanson, A. H. B., BA LL.B
 (Professional Conduct)
 Hogg, S. G., BCom LL.M (Accounts)
 Morrell, C. F. C., BA LL.M (Domestic Relns.)
 Dunn, R. H., LL.M (Criminal Procedure)
 26 Officers†

Mathematics, Pure and Applied

Cherry, T. M., PhD ScD *Camb.*, BA *Camb.*
 & *Melb.*, FAA, FRS (Appl. Maths.) Prof.
 Love, E. R., PhD *Camb.*, BA *Camb.* & *Melb.*
 (Pure Maths.) Prof.

Behrend, F. A., PhD *Berl.*, ScD *Prague*,
 MA (on leave) Assoc. Prof.
 Syer, F. J. D., MBE, BA DipEd Sr. Lectr.
 Ryan, J. P., BA BSc Sr. Lectr.
 Lester, Margaret, BA Sr. Lectr.
 Moppert, C. F., DrPhil *Basle* Sr. Lectr.

Bradburn, Mary, MSc *Lond.*, PhD *Edin.* Sr. Lectr.
 Papadopoulos, M., BSc PhD *Manc.* Sr. Lectr.
 Evans, I. A., MSc *Q'ld.*, MA *Camb.* Sr. Lectr.

Barton, J. C., BA BSc Sr. Lectr.
 Upton, C. J. F., BA *Oxon.*, MA PhD Lectr.
 Cumming, Betty, MA Lectr.
 Davis, A. W., BA Lectr.
 Greig, Mrs. Dulcie J., BSc *W.Aust.* Sr. Tutor
 Baker, H. K., MA Sr. Tutor
 Pownall, Elizabeth, BA MSc DipEd Sr. Tutor
 Collier, Eleanor V., BA Sr. Tutor
 Morley, Daphne, BSc *W.Aust.* Sr. Tutor
 2 Tutors, 1 Officer†

Medicine, see below

Metallurgical Research

Greenwood, J. N., DSc *Manc.* & *Melb.*,
 MMEtE Prof.

Metallurgy, see Engineering, below

Meteorology

Radok, U., BMechEng *Munch.*, PhD
 Reader-in-Charge
 Sr. Lectr.
 1 Res. Asst.

Microscopy

Matthaei, E. A. F. Officer-in-Charge of Lab.
 1 Demr.

Mineralogy, see Geol.

Mining, see Engineering, below

Music

Loughlin, G. F., DMus *Durh.*, MA, FRCO
 Dir. of Conservatorium, Ormond Prof.
 Jones, Rev. P., PhD *Pontif. Urb.*,
 MusDoc *Pontif. Inst. Mus. Sacr.*, MA
 Vice-Dir. of Conservatorium

Senior Lecturers

Deane, B., BA BMus *Belf.*, PhD *Clas.* (Theory)
 Nickson, N., DMus *Dub.* (Theory)
 Glickman, J. (Violin & Viola)
 Kennedy, J. (Violoncello)
 Shepherd, R. (Pianoforte)
 Harrison, E. (Pianoforte)
 Sharp, F. (Singing & Opera)
 Over 70 Teaching Officers†

Oriental Studies

Simon, H. F., BA *Lond.* Prof.
 Lancashire, D., MA *Lond.*, BD *H.K.* Sr. Lectr.

Pharmacology

Shaw, F. H., PhD *Lond.*, MSc (on leave) Prof.
 Gershon, S., MB BS *Syd.*, DPM Actg. Prof.
 Herman, Laura, BSc Temp. Lectr.
 Bruce, D. W., MA *Aberd.* Sr. Demr.
 Lang, W., BSc Sr. Demr.

Philosophy

Gibson, A. B., MA *Oxon.*, DLitt *Camb.*,
 BA Prof.

AUSTRALIA

Gasking, D. A. T., MA *Camb.*, BA *Liv.*

Assoc. Prof.

Jackson, A. C., PhD *Camb.*, MA

Reader

McCloskey, H. J., MA PhD

Sr. Lectr.

Gunner, D. L., MLitt *Camb.*, MA

Sr. Lectr.

Armstrong, J. M., BA *Syd.*, BPhil *Oxon.*

Lectr.

McGeachie, J. E., BA *W.Aust.*,BPhil *Oxon.*

Lectr.

Charlesworth, M. J., PhD *Louvain*, MA

Lectr.

McCloskey, Mrs. Mary A., MA PhD

Lectr.

Szczepnicki, J. T. J., MA

(External Studies) Lectr.

de Graaff, G. E., BPhil *Oxon.*, MA

Lectr.

Joske, W. D., MA

Lectr.

3 Tutors, 3 Officers†

Physical EducationDuras, F., MD *Freib.*, MEd

Assoc. Prof.

Willie, A. W., BA DipPhysEd *Lond.*,

BEd

Sr. Lectr.

Gill, Eunice E. P., BA DipEd DipPhysEd

Sr. Lectr.

McConchie, Lorna J., DipPhysEd

Lectr.

Sandstrom, E. R., BA DipPhysEd *Lond.*

19 Officers†

PhysicsMohr, C. B. O., PhD *Camb.*, BA MSc,

FIP

Prof.

Hopper, V. D., DSc, FIP

Actg. Prof.

Caro, D. E., PhD *Birm.*, MSc

Reader

Cherry, R. O., MSc, FIP

Sr. Lectr.

Spicer, B. M., MSc PhD

Sr. Lectr.

McDonnell, J. A., BA MSc PhD

Sr. Lectr.

Swan, P., PhD *Lond.*, MSc

Sr. Lectr.

Rouse, J. L., BA MSc

Sr. Lectr.

Wignall, J. W. G., PhD *Camb.*, MSc

Sr. Lectr.

Muirhead, E. G., MSc PhD

Sr. Lectr.

Hines, K. C., MSc PhD

Sr. Lectr.

Hirst, F., MSc PhD, FIP

• Officer-in-Charge, Digital Computer

Officer, V. C., MSc *N.Z.*, PhD

Lectr.

Sargood, D. G., BSc

Lectr.

Mather, K. B., MSc BSc(Engin) *Adel.*

Lectr.

Shute, G. G., PhD *Birm.*, MSc

Lectr.

Laby, Jean E., MSc PhD

Lectr.

Abbey, R. L., MSc

Lectr.

Legge, G. J. F., MSc

Sr. Demr.

Booth, A. P., BSc

Sr. Demr.

Lichtblau, H., MSc

Sr. Demr.

Bertziss, A. T., MSc

Sr. Demr.

1 Officer†

Physiology

Wright, R. D., MB MS DSc, FRACP

Prof.

Agar, W. T., BSc *Oxon.* & *Melb.*, MB BS

Reader

Trethewie, E. R., DSc MD BS, MRACP

Reader

Coats, D. A., MB BS *Adel.*

Sr. Lectr.

Dewhurst, D. J., BA MSc PhD

Sr. Lectr.

Keogh, Patricia P., MSc

Lectr.

Holman, Mollie E., DPhil *Oxon.*, MSc

Lectr.

Chennells, Mary H. D., BSc PhD *Lond.*

Lectr.

Ressom, Margaret A., BPharm *Lond.*

Actg. Lectr

Hutchinson, Margaret

Sr. Demr.

Filshie, J. H., BSc

Sr. Demr.

1 Officer†, 1 Demr.

Plant Physiology, see Bot.**Political Science**

Ball, W. M., MA

Prof.

Davies, A. F., MA

Reader

Burns, C. L., MA *Oxon.*, BA

(on leave) Sr. Lectr.

Churchward, L. G., MA DipEd

Sr. Lectr.

Wolfsohn, H. A., BA

Sr. Lectr.

Huck, E. A., MA

Lectr.

Jupp, J., MSc(Econ) *Lond.*

Lectr.

Armstrong, K. G., BA *Oxon.* & *Melb.*

Lectr.

1 Tutor, 4 Officers†

PsychologyOeser, O. A., MSc *S.A.*, PhD *Camb.*,DrPhil *Marburg*, MA, FBPsS

Prof.

Lafitte, P., BSc *Lond.*, MA LittD

Reader

Hammond, S. B., BA *W.Aust.*, PhD

Reader

Waterhouse, I. K., BA *Syd.*, MA PhD *Yale*,

FBPsS

Sr. Lectr.

Jeffrey, A. C., MB BS BSc

Sr. Lectr.

Langley, P. D., BA *W.Aust.*, BEd

Sr. Lectr.

Gardner, G., BA PhD *Lond.*

Sr. Lectr.

Greig, A. R., BA

Sr. Lectr.

Knopfmacher, F., BA *Brist.*, PhD *Lond.*

Lectr.

Hill, A. H., BA *W.Aust.*, PhD *Minn.*

Lectr.

Leaper, Patricia M., MA

Sr. Tutor

Gilchrist, Margaret, BA

Sr. Tutor

Grieve, Norma, BA

Sr. Tutor

Trahair, R. C. S., BA

Sr. Tutor

Kotler, Tamara, BA

Sr. Tutor

Williams, J. S., MA *N.Z.*

Sr. Tutor

Armstrong, D. B., BA *N.Z.*

Sr. Tutor

Watson, Janet, BA *W.Aust.*

Sr. Tutor

1 Res. Officer, 7 Tutors, 3 Officers†

Public Health, see Medicine, below**Russian**Christesen, Nina, BA *Q'ld.*, MA

Sr. Lectr.-in-Charge

de Bray, R. G. A., BA PhD *Lond.*

Lectr.

Christa, B., MA *Camb.*

Lectr.

Grishin, D. L., PhD

Lectr.

Uglitzky, Mrs. Zinaida

Lectr.

Yashounsky, Mrs. Marga E.

Sr. Tutor

Semitic StudiesBowman, J., MA BD *Glas.*, DPhil *Oxon.*

Prof.

Milne, N., MA *Glas.*

(Hebrew) Lectr.

Péles, D., MA *Jerusalem*

(Hebrew) Lectr.

Young, M. J. L., BA *Camb.*

(Arabic) Lectr.

Culican, W., MA *Edin.*

(Biblical Archaeol.) Lectr.

Bolster, G., MA BD *Edin.*

(Compar. Relig.) Lectr.

Qazi, A. K., BA PhD *Lond.*, Maulvi
Fazil Pany. (Islamic Studies) Lectr.
 Murtonen, A. E., PhD ThD *Helsinki*
(Hebrew) Sr Tutor
 Gaster, T., MA PhD *Lond.*
 Visiting Fulbright Prof.

2 Officers†

Social Studies

Hoban, Eileen R., CertSocSc&Adm *L.S.E.*,
 BA BCom DipEd Assoc. Prof., Dir.
 Robertson, Jean M., MA DipSocSc *Glas.*
 Dep. Dir.
 Tierney, L. J., MSc *Col.*, BA DipSocStud
 (Soc. Work Stud.) Supervisor
 Wardell, Teresa, DipSocStud
 Field Work Administrator
 Hyde, Alice, DipSocStud *Liv.* Lectr.
 O'Brien, Mrs. Laurie R. C., BA Lectr.
 Sharp, G. B., MA Lectr.
 Hay, Lorna, CertMentHlth *L.S.E.*,
 BA DipSocStud Lectr.
 11 Officers†

Statistics

Belz, M. H., MSc *Camb.*, BSc *Syd.*, MA,
 FASA (on leave) Prof.
 Jowett, G. H., BA *Lond.*, PhD *Sheff.*
 Actg. Prof., Reader
 Gregory, G., MA *Camb.*, MS PhD *Stan.*
 Sr Lectr.
 Finch, P. D., BA *Durh.* Sr. Lectr.
 Maritz, J. S., MSc *Rand* Sr. Lectr.
 Sr. Tutor
 1 Res. Asst.

Surveying, see Engineering, below

Town and Regional Planning

Ledgar, F. W., MA PhD DipTP *Manc.*
 Sr. Lectr.-in-Charge
 Bayly, J. J., BArch DipTRP Lectr.
 1 Tutor, 21 Officers†

Veterinary Science, see Vet. Res. Inst., below

Zoology

White, M. J. D., DSc *Lond.*, MSc, FRS,
 FAA Prof.
 Drummond, F. H., BSc *W.Aust.*, PhD *Lond.*,
 MSc Reader
 Boardman, W., MSc *Syd. & Melb.* Sr. Lectr.
 Willis, A. G., MSc *Wales & Melb.* Sr. Lectr.
 Burnstock, G., BSc PhD *Lond.* Sr. Lectr.
 Wasserman, M., MA PhD *Texas*
 (Genetics) Temp. Sr. Lectr.
 Gunson, Mary M., MSc Lectr.
 Thomson, J. A., MSc Lectr.
 Littlejohn, M. J., BSc PhD *W.Aust.* Lectr.
 Lowe, Mildred E., MS PhD *Tulang* Lectr.
 Strangio, V. A., MSc Sr. Demr.
 Dobrotworsky, N., MSc *Leningrad & Melb.*
 Sr. Res. Fellow

Carson, H. L. C., PhD *Penn.*
 Visiting Fulbright Prof.
 1 Res. Officer, 2 Demrs.

DENTAL SCIENCE

Clinical Photography

Tuckfield, W. J., ScD *Northwestern*, DDS, Sc,
 FDSRCS, FADC Mon. Officer-in-Charge

Conservative Dentistry

Reich, J., MB BS MDSc, FRACS Prof.
 Reader
 Campbell, M. J. A., MDSc Sr. Lectr.
 McIntosh, H. A., BDS Lectr.
 Malcolm, A. S., MDSc Lectr.
 Stragis, Asja, BDS Sr. Demr.
 4 Sr. Demrs.†

Dental Prosthetics

Atkinson, H. F., MBE, MSc DDS
 Manc., MDSc, FDSRCS
 Prof.; Assoc. Dean, Fac. of Dent. Sci.
 Shepherd, R. W., DDS Reader
 Dennis, C. G., DDS Sr. Lectr.
 Gill, H. I., MDSc Lectr.
 Harcourt, J. K., MDSc Lectr.
 Grant, A. A., MDSc Lectr.
 Lim, Allin, BDS Sr. Demr.
 Johnson, N. W., BDS Sr. Demr.
 6 Sr. Clin Demrs.†

Ethics and Practice Management

5 Officers†

Human and Comparative Dental

Anatomy

Quail, G. G., BDS Lectr.

Medicine

Davis, M. C., MD BS, FRACP †Sr. Lectr.
 1 Clin. Demr.†

Metallography and Dental Materials

Worner, H. W., DSc, FIM, FRACI †Prof
 Docking, A. R., MSc, FRACI †Sr. Lectr.

Oral Histology and Embryology

Amies, Sir Arthur, CMG, DDS DLO,
 FRCSed, FRACS, FDSRCS,
 FDSRCSed, FADC
 †Prof.; Pro-Vice-Chancellor, Principal,
 Australian Coll. of Dent.
 Harcourt, J. K., MDSc †Lectr.
 Lalienthal, B., BSc DDS *Syd.*,
 DPhil *Oxon.* †Lectr.

Oral Medicine and Oral Surgery

Amies, Sir Arthur, CMG, DDS DLO,
 FRCSed, FRACS, FDSRCS,
 FDSRCSed, FADC
 Prof., Pro-Vice-Chancellor, Principal,
 Australian Coll. of Dent.

Lilenthal, B., BSc DDSc *Syd.*, DPhil *Oxon.*
(D. & Oral Bacteriol.) Sr. Lectr.
Gilmore, H. G., MDSc (Oral Surg.) Sr. Lectr.
Sealey, V. T., DDSc, FDSRCSEd
(Oral Surg.) Sr. Lectr.
Fleming, W. E., MB BS DDSc DLO
(Oral Pathol. & Med.) Sr. Lectr.
Wedluck, Phyllis, MB BS (Anæsth.) Lectr
4 Sr. Demrs.†

Orthodontics

Adamson, K. T., DDSc, FDSRCS, FADC
†Sr. Lectr.-in-Charge
5 Sr. Clin. Demrs.†

Periodontics

Storey, E., DDSc PhD †Sr. Demr.

Pharmacology and Therapeutics

Shaw, F. H., PhD *Lond.*, MSc †Prof.

Surgery

Ewing, M. R., MB ChB *Edin.*, MSc,
FRCS, FRCSed †Prof.
Allcock, E. A., BDS, MB ChB *Manc.*,
FDSRCS, FRCS †Sr. Lectr.
Trinca, A. J., MD BS, FRCS, FRACS †Lectr.

ENGINEERING

Agricultural Engineering

Vasey, G. H., BCE Reader-in-Charge
1 Officer†

Chemistry for Engineering Students

Olver, N. H., MSc Lectr.
Sanders, Heather M., BSc *Syd.* Sr. Demr.

Civil Engineering

Francis, A. J., MSc PhD *Birm.*, MCE,
MICE Prof.
Trollope, D. H., MSc PhD *Wales* Reader
Wood, J. V., BCE Sr. Lectr.
Laszlo, F., DIng *T.H.Darmstadt*,
DiplIng *Bud.*, MCE Sr. Lectr.
Lawson, J. D., PhD *Aberd.*, BE *W.Aust.*
(on leave) Sr. Lectr.
Sharp, B. B., ME *Adel.* Sr. Lectr.
Stevens, L. K., PhD *Camb.*, BCE
MEngSc Sr. Lectr.
Moody, K. G. E., PhD *Ill.*, BCE
MEngSc Sr. Lectr.
Lee, I. K., MEngSc BCE Lectr.
Aroni, S., BCE Lectr.
Fokschaner, W., BSc(Eng) *Lond.* Asst. Lectr.
Grigg, W. L., BCE Sr. Demr.
Liu Yiu-Wai, BCE DipCE Sr. Demr.
Holden, J. C., BCE DipCE Sr. Demr.
3 Officers†

Electrical Engineering

Moorhouse, C. E., BMechE MEE,
MIEAust Prof.

Ferguson, A. E., MEE Reader
Brownlee, T., BSc *Glas.*, MEE Sr. Lectr.
King-Smith, E. A., BEE MEEngSc Sr. Lectr.
Catravas, S. J., BSc(Eng) *Rand* Lectr.
McCutchan, J. C., BEE Lectr.
Hooper, D., BEE Lectr.
Bonwick, W. J., BEE -Lectr.
4 Officers†

Mechanical Engineering

Henderson, P. L., PhD *Camb.*, ME *Syd.*,
MMechE, MIMechE Prof.
Patterson, J., DipGradStud PhD *Birm.* Sr. Lectr.
Pengulley, C. J., BE *N.S.W.*, PhD *Birm.* Sr. Lectr.
Svensson, N. L., MMEchE Sr. Lectr.
Joubert, P. N., BE(Aero) *Syd.* Sr. Lectr.
Clifton, S. J., BE *Syd.* Sr. Lectr.
Pitt, R. St. C., BSc BE *Syd.* Lectr.
Brown, R. H., BMechE SM *M.I.T.* Lectr.
Mansoor, E. M., BMechE Asst. Lectr.
Searls, R. S., BMechE Asst. Lectr.
Milkins, E. E., BMechE Asst. Lectr.
Rotenberg, A., GradEng *Tashkent* Asst. Lectr.
Armarego, E. J., BSc(Eng) *Lond.* Asst. Lectr.
Ward, G. L. Asst. Lectr.
Ingram, I. D., BMechE Sr. Demr.
1 Demr., 1 Officer

Metallurgy

Worner, H. W., DSc, FIM, FRACI Prof.
Willis, G. M., MSc (Chem. M.) Reader
Wood, W. A., DSc *Manc.*, MSc, FIP
(Metal Phys.) Reader
Walker, D. G., MSc (Phys. M.) Sr. Lectr.
Cannon, K. J., BEChem *Syd.*, PhD *Camb.*
(Metall. Engin.) Sr. Lectr.
Hoggart, J. S., BMetE (Mech. M.) Sr. Lectr.
Osborn, C. J., PhD *Lehigh*, BMetE
(Engin. Mat.) Sr. Lectr.
Guerin, B. D., BSc (Metall. Analysis) Lectr.
Borland, D. W., BMetE (Metall.) Lectr.
Thomson, P., BMetE MEEngSc Sr. Demr.
Maj, Sophia Sr. Demr.
Cullen, G. V. Sr. Indust. Res. Officer
Evans, D. G., MSc Res. Officer
Bull, F. A., DrRerNat *T.H.Karlsruhe*,
MSc Res. Officer
Hensler, J. H., BMetE MEEngSc Res. Officer
McPherson, R., BMetE MEEngSc Res. Officer
Klucis, E. S., BSc *W.Aust.* Res. Officer
2 Officers†

Mining

Dunkin, H. H., BMetE Assoc. Prof.
Carr, J. S., BSc BE(Min) *N.Z.*, MS(MetEng)
Missouri Sch. of Mines, SM *M.I.T.*
(Ore Dressing) Sr. Lectr.
Nevill, H. F.-C. (M. Engin.) Sr. Lectr.
4 Officers†

Surveying

Thornton-Smith, G. J., BE BSurv *W.Aust.*,
MCE Assoc. Prof.

Murphy, B. T., MSurv
 Bervoets, S. G., IrGeod *T.H. Delft*
 2 Officers†

Sr. Lectr.
 Lectr.

Doyle, A. E., MD BS *Lond.*, MRACP

Melick, R. A., MB BS *Syd.*, MRCP
 Nestel, P., MB BS *Syd.*, MRACP

First Asst.
 Asst.

MEDICINE
 (for subjects of first 3 yrs.—Anat.,
 etc., see above)

Anæsthetics

O'Brien, H. D., MB BS DA

†Lectr.

Bacteriology

Rubbo, S. D., PhD DipBact *Lond.*,
 BSc MD BS MPS *Syd.* (on leave) Prof.

Gray, D. F., DSc *O'ld.*, BVSc *Syd.* & *O'ld.*,
 DipBact *Lond.*, MSc DVSc Assoc. Prof.

Gibson, F. W. E., DPhil *Oxon.*, BSc Reader

Holloway, B. W., BSc *Adel.*, PhD *Cal.Tech.*

Reader

Mushin, Rose, MSc PhD Sr. Lectr.

Millis, Nancy, PhD *Brist.*, MAgrSc Sr. Lectr.

Gardner, Joan F., DPhil *Oxon.*, MSc Sr. Lectr.

Lilienthal, B., BSc DDS *Syd.*,
 DPhil *Oxon.* Sr. Lectr.

White, D. O., MB BS *Syd.*, PhD *A.N.U.*

Sr. Lectr.

Doy, C. H., BSc *Wales*, PhD Sr. Lectr.

Oliphant, Hilary, BSc Sr. Demr.

Fargie, Barbara, BSc Sr. Demr.

Holmes, I., BSc Sr. Demr.

Hope, V. F. Lab. Manager

Public Health Laboratory

Wilson, M. M., MA MB BChir *Camb.* Asst. Dir.

Cooper, G. N., MSc PhD Chief Bacteriologist

McAvan, T. Bacteriologist

Horan, A. S. E., BSc *W.Aust.* Bacteriologist

23 Officers†

Child Health

Collins, V. L., MD DCH, MRCP

Stevenson Prof.

Experimental Medicine

Burnet, Sir F. Macfarlane, OM, PhD Hon
 DSc *Lond.*, ScD *Camb.*, DSc *W.Aust.*,
 MD, FRCP, FRCPEd, FRACP, FAA,
 FRS

Prof.; Dir., Walter & Eliza Hall Res. Inst.

Anderson, S. G., MD BS

Sr. Haley Res. Officer

Experimental Neurology

Sunderland, S., CMG, MD BS DSc,
 FRACS, FRACP, FAA Prof.

Medical History, see Anat.

Medical Jurisprudence

Bowden, K. M., MS †Indep. Lectr.
 4 Officers†

Medicine

Dept. of James Stewart Prof.

Lovell, R. R. H., MD BS *Lond.*, MSc,
 FRCP, FRACP James Stewart Prof.

Dept. of Prof. of Med.

de Gruchy, G. C., MD BS, FRACP Actg. Prof.

Niall, J. F., MD, MRCP Second Asst

Poy, R. K. P. F., MD BS Asst

Langley, G. R., BA MD *Tor.* Res. Asst.

McDonald, I. G., MB BS Res. Asst.

3 Officers

Normal Psychology

Sinclair, A. J. M., MD BS, MRCP †Lectr.

Kingston, W. R., BSc MD BS DPM †Lectr.

Stephens, H. J. B., DTM *Syd.*, MB BS

DPM, FRACP †Lectr.

Reynolds, P. G., MB BS †Lectr.

Obstetrics and Gynæcology

Townsend, S. L., MD BS DTM&H,

FRCSed, FRACS FRCOG Prof.

Professorial Unit at Royal Women's Hospital

Mackay, E. V., MB BS, FRCSed First Asst.

Bishop, G. J., MB BS Second Asst.

Glenning, P. P., MB BS Second Asst.

Frailton, J. M. G., MB BS Second Asst

4 Officers†

Pathology

King, E. S. J., DSc MD MS, FRACP,
 FRCS, FRACS, FAA Prof.

Christie, G. S., MD BS, FRACS Assoc. Prof.

Hurley, J. V., MB BS PhD Sr. Lectr.

Menzies, D. W., MB ChB *Glas.* Sr. Lectr.

Anderson, R. McD., MB BS

(Neuropathol.) Sr. Lectr.

Green, C. R., MB BS Asst. Curator of Museum

Hayward, Nancy J., PhD *Lond.*, MSc

Stewart Lectr.

Tange, J. D., MB BS, MRCP Lectr.

Weiner, S., MD *Zur.* Lectr.

McCallum, N. E. W., MSc PhD, FRACI

(Chem. P.) Lectr.

Scroggie, J. G., MSc PhD (Chem. P.) Lectr.

Bayly, R. C., BSc (Forensic Chem.) Lectr.

10 Officers†

Pharmacy

Stanton, B. L., MB BS, MRCP, FRACP †Lectr.

Psychology, see Normal Psychol.

Public Health		Kidd, Elizabeth E., BSc	Third Asst.
Stevenson, W. J., DTM DPH Syd.	†Lectr.	7 Officers†	
Radiology		Therapeutics	
Crisp, E. R., DMRE Camb., MD BS	†Lectr.	Frew, J. L., MD BS, MRCP, FRACP	†Lectr.
Mackay, A. J. G., DR Edin., MB BS, FRCSEd, FRACP	†Lectr.	Clarke, J. E., MD BS, MRCP, FRACP	†Lectr.
Donnan, M. G. F., MB BS DR	†Lectr.	Hughes, J. F., MD BS DTM, MRCP, FRACP	†Lectr.
Piper, A. E., MB BS DDr	†Lectr.	Bottomley, E. E. K., MB BS, MRCP	†Lectr.
		Garlick, H. W., MD BS, MRCP	†Lectr.
Surgery		VETERINARY RESEARCH INSTITUTE	
Ewing, M. R., MB ChB Edm., MSc, FRCS, FRCSEd, FRACS	James Stewart Prof.	Albiston, H. E., DVSc	Dir.
Allcock, E. A., MB ChB BDS LDS Manc., FDSRCS, FRCS	Second Asst.	Pullar, E. M., DVSc	Reader
Cox, K. R., MB BS, FRCS, FRACS	Second Asst.	Gorrie, C. J. R., BVSc	Sr. Vet. Res. Officer
Berci, G., MD	(Exper. S.) Lectr.	Jones, T. E., BVSc Syd.	Vet. Res. Officer
		Leaver, D. D., BVSc Syd., MSc	Vet. Res. Officer
		Schuster, Mrs. Norma H., BSc	Biochemist
		Eales, Jean D., MSc	Milk Bacteriologist

ADMINISTRATIVE AND OTHER STAFF

UNIVERSITY OFFICE. *Vice-Chancellor's Branch.* Staff Architect : R. E. Featherstone, DipArchDes, FRAIA. Sec., Aust. Vice-Chancellors' Cttee. : R. G. H. Irving, CBE. Archivist : F. Strachan, BA. *Registrar's Branch.* Assts. to Registrar : S. H. Sheffield, BA ; R. B. Osborn, DSO, DFC, MA Camb. ; I. Barrah, BSc. Statistical Officer : F. Kathie Hindson, BA. *Grad. Studies & Bldgs. Branches.* Editor, 'Res. Report' : J. S. Rogers, MC, BA DSc DipEd, FIP. Asst. Dean : L. R. Pyke, MA DipEd Oxon., BSc. Maintenance Officer : R. A. Ellis. *Accounts Branch.* Asst. Accountants : M. N. Ferguson, BCom ; F. E. Bedbrook, BCom. *Asst. Registrar's Branch.* Matric Officer : H. G. Helms, BA BSc BEd. *Academic Sec.'s Branch.* Publicns. Officer : P. G. Kelly. *Scientific, Med. & Technical Branch.* Sec. (Scientific) : A. Sanderson ; Sec. (Technical) : P. F. Dorian, BA. Asst. Sec. : I. L. Milne, BA. *Student Counsellor's Branch.* Student Counsellor : R. R. Priestley, BA Q'ld. Asst. Student Counsellors : Marjorie E. Ross, BA ; G. Cally, BA. *Students' Records Branch.* Clerk : E. Finn. Fee Clerk : R. H. Shurey. *Public Exams. Branch.* Clerk : F. H. Johnston.

UNIVERSITY PRESS. Manager and Sec. : G. F. James, MA Birm. Asst. Reader : Barbara M. Ramsden, BA. Printing Manager : D. H. Wade.

UNIVERSITY LIBRARY. Dep. Librarian : G. J. L. Macfarlan, BA. Hd. Cataloguer : Lois H. Semmens, BA. Reference Librarian : Mary E. Lughton, BA. Accessions Librarian : Valerie R. S. Turnbull, BA. Sr. Cataloguer : Margaret J. Hagger, BA. Med. Librarian : Anne Harrison, BA W.Aust. Engin. Librarian : J. S. Greig, BA.

CONSERVATORIUM OF MUSIC. Sec. : I. P. Fiddian.

AUSTRALIAN COLLEGE OF DENTISTRY. Sec. : I. B. Postle, LLB Tas. Librarian : Heather N. Rankine.

EXTENSION COMMITTEE. Sec. : L. A. Clarkson, BA Nott.

AUDIO-VISUAL AIDS DEPARTMENT. Dir. : N. H. Rosenthal, BA BSc. Sr. Res. Officer : R. J. Thomson, BA DipEd Syd. Sr. Technician : G. R. A. Ogilby.

APPOINTMENTS BOARD. Sec. : H. F. Downes, DipCom. Asst. Sec. : K. Gravell, BCom. Admin. Asst. : B. J. Walsh, BSc N.Z.

UNIVERSITY UNION. Warden of the Union : J. B. Webb, BA. Sec. : D. B. Carswell.

ATHLETICS. Adviser : F. Stampfl.

SPORTS UNION. Sec. : W. K. Tickner, DipCom.

AFFILIATED COLLEGES

NEWMAN COLLEGE, Parkville, N.2, Victoria (tel. : 34 5915 [Newman], 34 1032 [St. Mary's Hall]). (R.C.) Rector—Very Rev. J. P. Gleeson, BLitt Oxon., BA. Dean—Rev. E. J. Stormon, MA. Superior of St. Mary's Hall—Mother Francis. 24 Tutors.

ORMOND COLLEGE, Parkville, N.2, Victoria (tel. : 34 4494). (Presbyterian.) Master—Rev. Prof. J. D. McCaughy, MA. 35 other Tutors.

QUEEN'S COLLEGE, Parkville, N.2, Victoria (tel. : 34 5968). (Methodist.) Master—R. C. Johnson,

MA *Oxon.*, PhD *Lond.*, DSc *Lond. & Melb.*
23 other Tutors.

TRINITY COLLEGE, Parkville, N.2, Victoria (tel.: 34 1001 [Trinity], 34 2208 [Janet Clarke Hall]). (Church of England.) Warden—R. W. T. Cowan, BA *Adel.*, MA *Blitt Oxon.*, MA. Dean—J. R.

Poynter, MA *Oxon.*, BA. Principal of Janet Clarke Hall—Margaret A. Dewey, MA *Harv.* 36 other Tutors.

UNIVERSITY WOMEN'S COLLEGE, Parkville, N.2, Victoria (tel.: 34 2539). (Undenom.) Principal—Angela A. Milne, BSc PhD *Aberd.* 17 Tutors.

HALLS OF RESIDENCE

INTERNATIONAL HOUSE, Parkville, N.2, Victoria (tel.: 34 2351). Warden—S. G. L. Pimmuck, BA BCom DipSocStud. 25 Tutors

MEDLEY HALL, 48 Drummond St., Carlton, N.3, Victoria. Warden—G. P. T. Sweeney, BCom DipEd.

GENERAL INFORMATION

The univ. was founded in 1853 by an act of the Victorian legislature and declared open in 1855. Schs. of law and med. were establd. in 1857 and 1862 respectively. The ceremonial Wilson hall (destroyed by fire in 1952) was opened in 1882, a yr. after women students were first admitted; the new hall was opened in 1956. Residential colls. were establd. as follows: Trinity, 1872; Ormond, 1881; Queen's, 1888; Newman, 1919. The conservatorium of music was opened in 1895 and the coll. of dent. affiliated with the univ. in 1904. A yr. later schs. of dent. and agric. were establd. By 1920, 2000 students were attending the univ., and during the ensuing 10 yrs. schs. of arts, anat., bot. and geol. were built and the univ. press establd. In 1935 the univ.'s first salaried vice-chancellor was apptd., previous holders of that office having acted in an honorary capacity. 1937 saw the establd. of Union House, a recreation centre for students, and the opening of Univ. Women's Coll., to which major extensions were made in 1952. Chem. and comm. bldgs. were opened in 1939. During the second world war the univ. became a centre of technical trg. and res. In 1947 enrolments had risen to 9100, and a branch was opened at Mildura for 1st-yr. students in certain sci. facs.; this branch was closed in 1949. Twenty-four new chairs were created in the yrs. 1945–58, a second arts bldg was opened in 1949 and 2 new floors added in 1956. The Beaurepaire centre for phys. educn. has recently been completed. The first 2 floors of the Russell Grimwade sch. of biochem. were occupied in 1958 and the Baillieu library was opened in March 1959. Following the adoption by the fed. govt. of the recommendations of the Murray report, some 136 new staff appts. have recently been made.

CONSTITUTION. The honorific offices are those of chancellor and dep.-chancellor (elected annually by council from among its members); they are assisted by the chief executive officers, viz. the vice-chancellor, registrar and accountant, and their staffs. The council is composed of 33 members—10 elected by grads.; 4 reps. of the teaching staff, 2 of affiliated colls., 2 of undergrads.; 8 apptd. by the govt. (3 being members

of parliament, the others representing business interests and technical schools); 4 *ex officio*; 1 nominated by the council of Monash Univ.; and 2 co-opted members. Convocation (the body of grads.) elects a standing cttee. with certain legislative and advisory functions. There is a professorial bd., and individual courses are controlled by facs. and bds. of studies.

INCOME (1959). £A3,666,732 (principal sources: state govt grants, 32.7 per cent; Commonwealth govt. grants, 29.8 per cent; students' fees, 20.3 per cent; pub exam. and cert. fees, 3.9 per cent; interest and non-capital donations, 9.5 per cent; other income, 3.5 per cent.).

FACULTIES AND DEANS (1961). *Agric.*, Prof. H. C. Forster; *archt.*, Prof. B. B. Lewis; *arts*, Prof. E. R. Love (maths.); *dent sci.*, Prof. Sir Arthur Amies (dent. med. & surg.); *econ. & comm.*, Prof. W. Prest (econ.); *educn.*, Prof. W. H. Frederick; *engin.*, Prof. P. L. Henderson (mech. engin.); *law*, Prof. Z. Cowen; *med.*, Prof. S. Sunderland (exper. neurol.); *music*, Prof. G. F. Loughlin; *sci. & appl. sci.*, Prof. J. N. Greenwood (appl. sci.); *vet. sci.*, Prof. R. D. Wright (physiol.).

UNIVERSITY PRECINCT. The univ. occupies 66 acres to the north of the city (40 acres adjacent to this area are vested in the 4 affiliated colls.). The master-plan for future dev. of the campus proper provides for new multi-storey bldgs. on the periphery, to retain the wide grassed areas in the centre of the campus. Other aims are: the conversion of several existing bldgs.; the demolition of obsolete bldgs.; the transfer of the med. school diagonally across the campus to the S.W. corner; and the control of parking and traffic problems in the grounds. A 12-storey bldg., being erected in the N.W. corner, is intended to house the depts. of psychol. and educn. and to act as a temp. home for other depts.

LOCATION OF OUTSIDE DEPARTMENTS. *Dept. of exper. med.*: Royal Melbourne Hosp., Parkville, N.2, Melbourne. *Vet. Res. Inst.*: Parkville, N.2, Melbourne. *Dental coll.*: 193 Spring St., Melbourne, C.1. *Depts. of med.*: Royal Melbourne Hosp., Parkville, N.2; St. Vincent's Hosp.,

Victoria Pde., Fitzroy. *Dept. of surg.*: Alfred Hosp., Commercial Rd., Prahran.

LIBRARIES. Bailieu libr., 177,121 vols. Branch libr.: agric., 5679; archit., 3643; bot., 6581; chem., 6504; conservatorium, 1253; engin. & metall., 19,277; for., 1198; geol., 11,087; law, 19,047; med., 33,096; phys. educn., 1241; zool., 6516. Total, 292,243.

MUSEUMS. Agric., anat., bot. (herbarium), chem., dent. sci., gol., hist., music (Percy Grainger), pathol., zool.

LABORATORIES. Agric., anat., bacteriol., biochem., bot., chem., civ. engin., dent. sci., electr. engin., exper. med., geol. & mineral., mech. engin., metall., meteorol., mining, obstet. & gynæcol., pathol., phys., physiol., psychol., statistics, vet. sci., zool.; also for. (field stn.), bot. (system garden); and several Commonwealth govt. labs. (incl. X-ray and radium, and C.S.I.R.O. sections). *Vet. Res. Inst.*, Parkville, *Walter & Eliza Hall Res. Inst.*, in connexion with Royal Melbourne H.

TEACHING HOSPITALS. *General Hosps.*: Royal Melbourne H., Alfred H., St. Vincent's H., Prince Henry's H. *Special Hosps.*: Royal Women's H., Queen Victoria Memorial H., Royal Children's H., Victorian Eye and Ear H., Fairfield H., Royal Park Receiving House.

ADMISSION. See Appendix III.

NON-MEMBERS OF THE UNIVERSITY are not admitted to classes.

SCHOOL EXAMINATIONS. The univ. through its colleges bd. holds sch. inter. and sch. leaving exams. throughout Victoria annually. Pupils of certain secondary schs. (approved after inspection) may obtain credit on headmaster's cert. without sitting for external exam. The matric. exam. (1 yr. after sch. leaving) is held for pupils seeking to enter the univ. Sp. provision exists for matric. of adults. See also Appendix III.

FIRST DEGREES. 3 yrs.—BA (ordinary), BSc (ordinary), BScF, BCom (ordinary); 4 yrs.—BA (hons.) [more intensive than ord. degree: students take either 1 or 2 of the following hons. schs.: classical studies, econ., Engl. lang. & lit., fine arts, French lang. & lit., geog., Germanic langs., hist., hist. & philos. of sci., mathl. stats., maths., philos., pol. sci., psychol., Russian lang. & lit., Semitic studies], BSc (hons.) [after completion of 3 yrs.' study required for ord. degree, hons. students proceeded to 1 yr.'s. res. in either 1 or 2 of the following schs.: biochem., bot., chem., engin., geol., metall., microbiol., pharmacol., phys., physiol., psychol., zool.], BCom (hons.), LLB pass, hons., BMus, BE (in agric. engin., civil, mining, metall., electr., mech. and chem. engin.), BSurv, BAgSc (incl. 1 yr. at an approved agric. coll.), BBLdSc, BAppISc, BTRP; 5 yrs.—BArch, BDSc; 6 yrs.—MB BS. The univ. is prohibited by act of parliament from conferring degrees in div.; degrees of BD and DD are conferred by the Melbourne Coll. of Divinity (non-univ.).

The BA and BCom (incl. accty., etc.) courses are the only degree courses which can be completed on a pt.-time basis.

HIGHER DEGREES. Open to bachelors of 1 yr.'s standing—MAGRSc, LLM, MENGSc, MMus; 2 yrs.—BED, MSc (in some cases, 3 yrs.'), MScF, MD, MS, MDSc, MYSc; 3 yrs.—MEd, ME, DMus, DVSc; 4 yrs.—DSc, LL.D., DDSc; 5 yrs.—DEng, MArch, MGO, DArch; 7 yrs.—LittD. The MA and MCom are open to bachelors (hons.) of 1 yr.'s standing and bachelors (ord.) of 3 and 2 yrs.' standing respectively. These represent min. times which must elapse before degree is taken out, e.g. an MA degree may be awarded 1 yr. after BA (hons.) has been conferred. The BED course can be taken after graduation in any other fac. The PhD degree can be taken in any fac. Standing required before admission to PhD course varies according to the fac. in which prior degree was taken. Courses of med. postgrad. study arranged by sp. cttee. on which univ. is represented.

HONORARY DEGREES. Master in any fac. (or bachelor where there is no master's degree); doctor in any fac.

The univ. does not award EXTERNAL DEGREES.

DIPLOMAS. DPH, open to med. grads. of Melb. and persons qualified for registration as med. practs. in U.K., 12 mos.; ophthalmol., laryngol. & otol., therapeutic radiol., diagnostic radiol., anaesthetics and psychol. med. (DO, DLO, DTR, DDR, DA, DPM), open by exam to med. grads. of 3 yrs.' experience in practice. Dietetics (Dip Diet), 1 yr. following BSc or BAgSc course; DipEd, 1 yr. following graduation in any other fac.; journalism, phys. educn., pub. admin., town and regional planning, psychol. (DipJourn, DipPhysEd, DipPubAdmin, DipTRP, DipPsych), 2 yrs.' undergrad. study; music, soc. studies (DipMus, DipSocStud), 3 yrs.' undergrad. study; DipAgr, DipArchDes, 4 yrs.' undergrad. study.

RESEARCH. Facilities for postgrad. res. or advanced study in all depts. Details of recent and current res. activities publ. annually in *Report of Res. & Investigation and Discovery* (see 'Publications' para., below).

FEES. Matric., £A3: 3s.; degree (except dent. sci., £A10: 10s.; £A13: 13s.; degree courses in agric., 4 yrs., £A429; archit., 5 yrs., £A548; arts, 3 yrs., £A286; 4 yrs., £A343; comm., 3 yrs., £A340; 4 yrs., £A352; dent. sci., 5 yrs., £A808; educn., 2 yrs., £A138; engin., 4 yrs., £A472; law, 4 yrs., £A463; med., 6 yrs., £A846; music, 4 yrs., £A472; sci., 3 yrs., £A358; 4 yrs., £A433; bldg. sci., 4 yrs., £A472; dipl. courses in soc. studies, 3 yrs., £A350; town & regional planning, 2 yrs., £A167; pub. admin., 2 yrs., £A224; archit. des., 4 yrs., £A155; journ., 2 yrs., £A159; music, 3 yrs., £A347; phys. educn., 2 yrs., £A212; dipl. fee, £A5: 5s.; sports entrance fee, £A1: 10s.; annual sports fee, £A3; union entrance fee, £A4: 4s.; annual union fee, £A6; S.R.C. fee, £A1; registration fee, £A7: 7s.

ACADEMIC YEAR. March to Dec. : 4 terms (the 4th an exam. term) of 10 weeks, 9 weeks, 7 weeks, 7 weeks.

ADULT EDUCATION. Adult educn. in Victoria, formerly directed by the univ. extension bd., is now controlled, under provisions of a sp act of parliament, by the council of adult educn., a body indep. of the univ.

VACATION COURSES. No regular courses provided by the univ., but from time to time certain depts. arrange sp. courses during long vacations.

PRINCIPAL 'OPEN' AWARDS. Aitchison scholp., Commonwealth scholps. (see pp. 12-13), Dick bursaries, free places, Gowie scholps., Moran bursaries, Rest-Home bursary, senior govt. scholps., war bursaries. A students' loan fund has assets exceeding £A89,100.

Sir Thomas Lyle fellowship in phys.; H. W. C. Simpson res. scholp.; Georgina Sweet fellowships in (a) econ. zool., (b) med., (c) econ. geol.; Hirsh and Olga Taft interchange scholp.; Dunlop Rubber Co. res. scholps. in phys. and chem.; Vacuum Oil Co. res. scholp.; Sir John and Lady Higgins res. scholp.; Sir Arthur Sims travelling scholp.; Duxson res. scholp. in engin.; Margaret Catto scholp.; grants and scholps. from Commonwealth and Victorian state govt. funds; General Motors-Holdens scholp.; Williams' scholps.; I.C.I.A.N.Z. res. fellowships (2); Grimwade prize; Harbison-Higinbotham scholps.; Ernest Scott prize; David Syme res. prize.

APPOINTMENTS BOARD. The bd. provides an employment service for men and women with univ. trg. It has reciprocal agreements throughout Australia and the U.K. whereby bds. of other univs. make their services available to grads. and undergrads. of the Univ. of Melbourne. The bd. also arranges vacation work. Sec.: H. F. Downes, DipCom.

GRADUATE UNION. In 1938 a grads.' section of the Melbourne Univ. union came into being. By 1954 membership of the soc. had risen to over 2500. As from 1953 the grad. soc. has had indep. status under the council as the grad. union. The union produces its own publicn., *The Melbourne Grad.* (monthly newsletter). Women grads. may belong to the Melbourne women grads.' assocn., a branch of the Australian (and International) Federation of Univ. Women.

RESIDENCE. The residential colls. accomm. over 600 resident students. Trinity Coll. (£A285 for acad. yr. of approx. 32 wks.), 163 students; Janet Clarke Hall (£A240), 82 students; Ormond Coll. (£A270), 155 students; Queen's Coll. (£A270), 147 students; Newman Coll. (£A210), 154 students; St. Mary's Hall (£A192), 52 students; University Women's Coll. (£A220), 125 students. Tuition is provided at all residential colls. (See also pp 50-51.)

Halls of residence: International House (£A6: 6s. per week), 96 students; Medley Hall (£A5: 12s. per week), 48 students.

MILITARY AND AIR FORMATIONS. Melbourne Univ. regiment (military) and a univ. air squadron.

STUDENT HEALTH SERVICE. H. D. G. Hetherington, MD BS Lond., has been apptd. as dir. of student health, to begin a full-time student health service. The service begins with compulsory med. exam. for freshers. In addition S.R.C. conducts a free eye-testing scheme in conjunction with the Aust. Coll. of Optometry. Salk antipolio injections available for both staff and students.

STUDENTS' REPRESENTATIVE COUNCIL. Establd. in 1915, organizes student functions and services and supervises clubs and socs.

STUDENTS' UNIONS. Union House, establd. in 1937, is the centre of student activities; it is governed by the union bd. of management, on which both staff and students are represented. The bldg. includes a theatre, art gallery, library (Rowden White), reading rooms and cafeteria.

ATHLETIC FACILITIES. Facilities for cricket, football, athletics, tennis, hockey, basket-ball, baseball, rowing, squash racquets, fencing, lacrosse.

PUBLICATIONS. *Calendar* (June), 12s. 6d. net (handbooks containing extracts and general information relevant to each fac. publ. separately, 3s each); *Annual Exam. Papers*, in sets, 6s. each; *Handbook of Public Exams.*, 12s. 6d.; *Conservatorium Prospectus*; *Manual of Public Exams. in Music*; *Report of Res. and Investigation*; *Univ. Gazette* (containing academic news and official announcements), publ. during term; *Discovery*, illustrated acct of res. activities at the univ., publ. occasionally for official distribution and for sale at 2s 6d.; *Melbourne Graduate* (monthly newsletter of grad union); *Circulars to Schools*, publ. about 10 times a yr. and forming a link between the univ. and the secondary schs. *A History of the Univ. of Melbourne*, by Prof. Ernest Scott (Melbourne Univ. Press, 1936) (o/p); *The Univ. of Melbourne, a centenary portrait*, by N. H. Olver and G. Blainey (Melbourne Univ. Press, 1956, 17s. 6d.); *A Centenary History of the Univ. of Melbourne*, by G. Blainey (Melbourne Univ. Press, 1957, 37s. 6d.). Students' journals: *Melbourne Univ. Magazine* (annual); *Farrago* (weekly); *Speculum* (medical); *The Margin* (commerce); *Res Judicatae* (law); *Science Review* (sci.); *Cranks and Nuts* (engn.).

The MELBOURNE UNIVERSITY PRESS, founded in 1922, publishes works by members of the univ. and other writers on learned subjects in Australia and New Zealand. It also sells text-books and caters for students' requirements in stationery and apparatus. (See also p. 50).

THE YEAR 1960

PRINCIPAL BENEFACTIONS. Anti-Cancer Council of Victoria, £A60,074 for res. and travel; Med. Res. Endowment Fund, £A52,393 for res.; estates of A. E., A. L. & R. G. Williams, £A43,688 for res. scholps.; subs. to res. bldg. for dept. of physiol., £A30,000; Dept. of Primary Industry, £A15,950 for res. in physiol. dept. and agric. sch.; Lady Grimwade, £A10,000 for biochem. bldg.

MAJOR BUILDING DEVELOPMENTS. Addition of 2 floors to biochem. bldg.; commencement of 12-storey North bldg. to house depts. of psychol. & educn., etc.; addition of 2 floors to hydraulics bldg.; commencement of new dent sch.

RETIREMENTS. Dr. F. Loewe (meteorol.).

RESIGNATIONS. Prof. D. Cochrane (comm.), apptd. prof. of econ. & pol. sci., Monash; Dr G. S. L. Tucker (econ. hist.), apptd. prof. of econ. hist., sch. of gen. studies, A.N.U.; W. A. G. Scott (Engl.), apptd. prof. of Engl., Monash; Dr D. J. Carr (bot.), apptd. prof. of bot., Belf.; Dr H. A. J. Ford (law), apptd. prof. of law, A.N.U.; Dr. H. Muir (metall.), apptd. prof. of phys. metall., N.S.W.

DEATHS. Dr. L. Adam (museum curator, dept of hist.); Prof. J. G. Hayden (univ. prof. of med., St. Vincent's Hosp.).

Statistics

STUDENT NUMBERS, 1961

(as at the beginning of the academic year)

	Full-Time	Part-Time	External
Men	5191	2718	381
Women	2008	918	100
Total	7199	3636	481

Distribution by Faculties. *Agric. sci.*, 206; *archit.*, 416; *arts*, 3286; *comm.*, 1574; *dent. sci.*, 162; *educn.*, 702; *engin.*, 767; *journalism*, 41; *law*, 1110; *med.*, 1002; *music*, 183; *phys. educn.*, 147; *pub. admin.*, 27; *sci.*, 1543; *soc. stud.*, 102; *town & regional planning*, 58. Total incl. 236 students taking combined courses.

Included in the figures above are:—

Postgraduate students, 396.

New admissions, 2721.

Students from other countries, 430. (Countries from which the largest numbers came: Singapore & Fed. of Malaya, 250; Hong Kong, 87; Indonesia, 25; Thailand, 10; U.S.A., 10; New Zealand, 9; Fiji, 8).

DEGREES AWARDED (1960) *Agric.*: BAgSc, 43; MAgSc, 2; PhD, 1. *Archit.*: BArch, 31; MArch, 1. *Arts*: BA (hons.), 59; BA, 279; MA, 16; PhD, 6. *Comm.*: BCom (hons.), 6; BCom, 139; MCom, 3; PhD, 1. *Dent. sci.*: BDSc, 19; MDSc, 4. *Educn.*: BEd, 55; MEd, 3; PhD, 1. *Engin.*: BE, 95; MEngSc, 7. *Law*: LLB (hons.), 4; LLB, 108; LLD, 1. *Med.*: MB BS, 128; MD, 6; PhD, 4. *Music*: BMus, 30. *Sci.*: BSc (hons.), 4; BSc, 177; BScF, 2; MSc, 33; DSc, 2; PhD, 9. *Surv.*: BSurv, 2; MSurv, 1.

DIPLOMAS AWARDED (1960). *Archit.*: Dip ArchDes, 1. *Dietetics*: DipDiet, 1. *Educn.*: DipEd, 63. *Journalism*: DipJourn, 2. *Med.*: DDR, 1; DPM, 9; DGO, 1; DO, 5. *Music*: DipMus, 8. *Pub. admin.*: DipPubAdmin, 1. *Soc. studies*: DipSocStud, 20. *Town & regional planning*: DipTRP, 6.

MONASH UNIVERSITY*

Founded and incorporated 1958

Postal Address : Box 92 P.O., Clayton, Victoria, Australia

Cables and Telegrams : Monashuni, Melbourne

Telephone : 544-0481

VISITOR—H.E. THE GOVERNOR OF VICTORIA, Sir DALLAS BROOKS, KCB, KCMG, KVO, DSO,
Hon. LLD *Melb.*

CHANCELLOR—Sir ROBERT R. BLACKWOOD, MCE BEE *Melb.*, MIEAust

DEPUTY-CHANCELLOR—. . . .

VICE-CHANCELLOR—J. A. L. MATHESON, MBE, MSc *Manc.*, PhD *Birm.*, MCE *Melb.*, MICE

DEAN OF MEDICINE—R. R. ANDREW, MD *Melb.*, FRCP, MRACP

REGISTRAR—FRANCIS HENRY JOHNSON, MA *Oxon.*

LIBRARIAN—E. H. CLARK, BA *Melb.*

TEACHING STAFF

Anatomy

Schofield, G. C., MD BS *N.Z.*,

DPhil *Oxon*

Barrett, D. M., MB ChB *N.Z.*

Wilson, A. S., MB ChB *Glas.*

1 Histologist

Prof.

Sr. Lectr.

Lectr.

Sinclair, C. G., BScTech *Manc.*, MSc *Alta.*,
PhD *Syd.*

Sr. Lectr.

1 Lab. Manager

English

Scott, W. A. G., BLit *Oxon.*, BA *Melb.* Prof.

Bradley, D., BA *Melb.* & *Camb.* Sr. Lectr.

Green, Mrs. Dorothy, MA *Syd.* Lectr.

1 Sr. Teaching Fellow

History

Legge, J. D., MA *Melb.*, DPhil *Oxon.* Prof.

Serle, A. G., BA *Melb.*, DPhil *Oxon.* Sr. Lectr.

Cuthbert, D. D., MA *N.Z.* Lectr.

1 Sr. Teaching Fellow

Mathematics

Westfold, K. C., MA BSc *Melb.*, DPhil
Oxon.

Prof.

Smith, G. C., MA *Camb.*, BSc *Lond.* Sr. Lectr.

Laszlo, H., MA BSc PhD *Melb.* Lectr.

1 Sr. Teaching Fellow

Medical Biochemistry

Bornstein, J., MD DSc *Melb.*, FRACP Prof.

1 Sr. Lectr., 1 Lectr., 1 Lab. Manager

Modern Languages

Barrell, R. A., MA BSc *N.Z.*, DU

Cd'EPr *Paris*

Sr. Lectr., Hd. of Dept.

Bodi, L., PhD DipEd *Bud.* Sr. Lectr.

Redmond, Mary, MA *Melb.* Lectr.

Keller, E., PhD *Zür.* Lektor

1 Teaching Fellow

Philosophy

Monro, D. H., MA *N.Z.* Prof.

Economics and Politics

Cochrane, D., BCom *Melb.*, PhD *Camb.* Prof.

Davis, S. R., LLB *W.Aust.*, PhD *Lond.*

Sr. Lectr.

Frearson, K. S., BA *W.Aust.* Sr. Lectr.

Sinclair, W. A., MCom *Melb.*,

DPhil *Oxon.*

Sr. Lectr.

Ward, I. D. S., BCom *Melb.*

Lectr.

Brogan, B. W., BCom *Melb.* (after 1/7/62) Lectr.

Clunies Ross, A. I., BA *Melb.*

Lectr.

McGregor, L., BCom *Melb.* (after 1/7/62) Lectr.

McLaren, G. C., BCom *Melb.* (after 1/7/62)

Lectr.

1 Teaching Fellow

Engineering

Hunt, K. H., MA *Oxon.*, MMechE *Melb.* Prof.

Crisp, J. D. C., ME *Adel.* Sr. Lectr.

Murray, N. W., BE *Adel.*, PhD *Manc.*

Sr. Lectr.

Phillips, J. A., BSc *Melb.*

Sr. Lectr.

* Member of the Association of Universities of the British Commonwealth

McGeachie, J. E., BA *W.Aust.*, BPhil *Oxon.*

Williamson, J., BSc *Manc.*, MA *Lond.*
1 Teaching Fellow

Sr. Lectr.
Lectr.

Physiology

McIntyre, A. K., MB BS BSc *Syd.* Prof.
1 Sr. Lectr., 1 Lectr.

Physics

Street, R., MSc PhD *Lond.*, FIP Prof.
Rachunger, W. A., MSc PhD *Melb.* Sr. Lectr.
Smith, J. H., BSc *Nott.*, PhD *Sheff.* Lectr.
Troup, G. J. F., BSc *Melb.* Lectr.
2 Sr. Teaching Fellows, 1 Teaching Fellow,
1 Lab. Manager

Zoology and Comparative Physiology

Marshall, A. J., BSc *Syd.*, DPhil DSc *Oxon.* Prof.
Ealey, E. H. M., MSc *Syd.* Sr. Lectr.
Hiscock, I. D., MSc PhD *Adel.* Sr. Lectr.
Williams, W. D., BSc PhD *Liv.* Lectr.
1 Sr. Teaching Fellow, 2 Teaching Fellows,
1 Lab. Manager

ADMINISTRATIVE AND OTHER STAFF

REGISTRAR'S DEPT. *Heads of Sections.* Finance :
I. B. Tate, BCom *Melb.* (Accountant). Academic :
J. D. Butchart, BA *Melb.*, BEc *Syd.* (Asst
Registrar). Buildings & Grounds : W. C. A.
Wheatland, BArch *Melb.* (Staff Architect). Staff :
Mrs. Joan A. Dawson, BA *Melb.* Publications &
Pub. Rels. : N. F. Perry, BA *Brist.* Other
Admin. Staff. Academic : V. G. Brownie, BA

Syd. ; Carolyn Rossell, BA *Syd.* Finance :
L. W. Candy. Buildings & Grounds : G. R.
House.

HALL OF RESIDENCE. Warden : J. A. McDon-
ell, MA BSc DPhil *Melb.*

UNIV. UNION. Warden elect : G. P. T.
Sweeney, BCom DipEd *Melb.*

GENERAL INFORMATION

Monash Univ., which has been named after Sir John Monash, a distinguished soldier and engineer, was established by act of the govt. of Victoria in 1958 to meet the pressure on the Univ. of Melbourne of a rapidly growing population of young people. It was opened by the premier of Victoria, Mr. H. E. Bolte, on March 11, 1961. The permanent council took office in July 1961, planning up to that date having been done by an interim council of 25 persons widely representative of academic and profess. life in Victoria. Instrucn. began on March 13, 1961, in the facs. of arts, econ. & pol., engin., med. and sci.

CONSTITUTION. The governing authority of the univ. is the council consisting of not more than 36 members and constituted of 9 persons apptd. by the govt. in council, 2 elected by grads., 8 by facs., 2 profs. or deans, 1 elected by teaching staff other than profs., 5 *ex-officio* and 4 co-opted members, 2 hds. of affiliated instns. and 1 member of Melbourne Univ. Council ; there is provision for representation of students. The main academic body, the professorial bd., was established in 1960 and is charged with responsibility for all questions relating to studies and exams. The facs., which are subordinate to the bd., were established in 1961.

INCOME (6 mos. to June 30, 1961). £A670,000 (state govt. grants, 76 per cent. ; Commonwealth govt. grants, 17 per cent. ; student fees, 7 per cent.).

FACULTIES AND DEANS (1961). *Arts*, Prof. W. A. G. Scott (Engl.) ; *econ. & pol.*, Prof. D. Cochrane ; *engin.*, Prof. K. H. Hunt ; *med.*, Prof. R. R. Andrew ; *sci.*, Prof. A. J. Marshall (zool. & compar. physiol.).

UNIVERSITY PRECINCT. The 250-acre site at

Clayton, a suburb some 12 miles E.-S.-E. of Melbourne, is being developed in co-operation with the consulting architects whose plan provides for the siting of the bldgs. in the form of a splayed 'U', the open end facing eastwards towards the distant Dandenong Ranges. The bldgs. will be on the more elevated portion of the site and part of the area is reserved for sports grounds. The 5 facs. of arts, econ. & pol., engin., med. and sci. are at present functioning in those parts of the sci. bldgs. so far completed. The remainder of the sci. bldgs., together with parts of the first hall of residence, the maintenance workshops and the engin. bldgs., will be available for 1962. The plans provide for completion at a total cost of £A20-£A30 million by 1968, by which time the univ. will have some 8000 students.

LIBRARIES. The libr., already (April 1961) consisting of 30,000 vols., is being rapidly developed. In addition to the main libr., there will be separate libr. of med., sci. and engin., and possibly law. The sci. and engin. libr. bldg. will be completed for 1962 and during that yr. will house the main libr., the permanent bldg. for which will be commenced in 1963.

LABORATORIES. Jr. chem., jr. phys.

ADMISSION. See Appendix III.

NON-MEMBERS OF THE UNIVERSITY are not at present admitted to classes.

FIRST DEGREES. 3 yrs.—BA pass, BEc pass, BSc pass ; 4 yrs.—BA hons., BEc hons., BE pass, hons., BSc hons. ; 6 yrs.—MB BS pass.

First degrees in the facs. of arts and econ. & pol. may be taken on the basis of pt.-time attendance at the univ., but there are at present no evg. classes.

HIGHER DEGREES. PhD will be available in all facs. and master's degrees will be available in the facs. of arts, econ. & pol., engin. and sci. The detailed requirements are under consideration.

RESEARCH. Expanding facilities for res. in all facs. Details of those available in 1962 may be obtained on request.

STUDY LEAVE. Academic and sr. admin. staff, 1 yr. on full salary after 6 yrs. of service, or *pro rata*. Travel allowances may be granted.

FEES. For a full-time undergrad. student in any fac., annual fee is £A135. There are no other charges for such items as matric, exams, graduation, union, etc. Pt.-time fees are likewise simplified in that annual fees for any fac. are: 1 subj. £A45; 2 subjs. £A90; 3 subjs. £A135. Annual fees for higher degrees: master's degree (arts, econ. & pol., engin., sci.) £A45; PhD £A30.

ACADEMIC YEAR. March to Nov.: 2 terms of 9 wks. each, 1 term of 7 wks.

PRINCIPAL 'OPEN' AWARDS. Commonwealth scholps., Gowrie scholps., sr. govt. scholps.

PRINCIPAL 'OPEN' POSTGRADUATE AWARDS.

Shell postgrad. scholp., Monash Univ. postgrad scholps.

STUDENT RESIDENCES. Pt. of the first hall of residence, accommodating 90 of its complement of 160, will be ready for 1962. There will ultimately be residential accomm. for 3000-4000 students.

STAFF RESIDENCES. There are no staff residences. There is, however, a staff members' home purchase scheme by which loans up to 90 per cent. of property valuation may be secured from the univ.'s bankers and certain life assurance assocns.

STUDENT HEALTH SERVICE. A free med. exam. for students is conducted in collaboration with the dept. of health, Victoria. It includes anti-poliomyelitis immunization.

UNIVERSITY UNION. The union, which will be completed in 1965, will provide for extra-curricular activities of students and staff. It will be managed by a bd., already in being, on which staff and students are represented. Within the union, the students' rep council organizes and encourages all kinds of extra-curricular activities except sports, which are the responsibility of a sports cttee.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS. Bldgs. completed: jr. chem. lab. *Approaching completion:* jr. phys. lab. and main sci. office bldg.

NEW DEPARTMENTS AND CHAIRS. Depts. and chairs of chem., maths., phys., zool. & compar. physiol., engin., anat., physiol., Engl., hist., philos., econ. & pol.; dept. of mod. langs.

Distribution by Faculties. Arts, 138; econ. & pol., 58; engin., 23; med., 101; sci., 37. Total: 357.

Statistics

STUDENT NUMBERS, 1961
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	248	18
Women . . .	84	7
Total . . .	332	25

Included in the figures above are:—

Postgraduate students, 10.
New admissions, 357.

Students from other countries, 33. (Countries from which largest numbers came: Singapore & Fed. of Malaya, 19; Borneo, 4; Hong Kong, 2).

UNIVERSITY OF NEW ENGLAND*

Incorporated 1954; previously established as New England University College, 1938

Postal Address: Armidale, New South Wales, Australia

Cables and Telegrams: University, Armidale

Telephone: Armidale 2231

VISITOR—H.E. THE GOVERNOR OF NEW SOUTH WALES

CHANCELLOR—P. A. WRIGHT, Hon. DSc

DEPUTY CHANCELLOR—Rt. Rev. J. S. MOYES, MA *Adel*, DD *Tor.*, ThD *A.C.T.*

VICE-CHANCELLOR—R. B. MADGWICK, DPhil *Oxon.*, MEd *Syd.*

PRO VICE-CHANCELLOR—D. HOWIE, MA DipEd *W.Aust.*, PhD *Lond.*

REGISTRAR—T. C. LAMBLE, BA *Syd.*

BURSAR—N. F. DEVLIN, FCIS, FASA

LIBRARIAN—F. H. ROGERS, MA *Brist.*, FLA

TEACHING STAFF

[†=Part-Time]

Agricultural Economics

Lewis, J. N., BEC *Syd*, MPA *Harv.*

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.....

.....

Waring, E. J., BScAgr *Syd.*

Richards, R. A., BA BSc DipPubAdmin

Melb., MA *Manc.*, PhD *Ohio*

Pearse, R. A., MScAgr *W.Aust.*

Musgrave, W. F., MScAgr *Syd.*

Van der Muelen, J., BEC *Syd.*

Duloy, J. H., BScAgr *Syd.*

.....

.....

James, B. F. J., BSc *Wales*,
DipAgricEcon *Oxon.*

.....

4 Res. Assts., 1 Grad. Asst.

Botany

Beadle, N. C. W., DSc *Syd.*

Davis, Mrs. Gwenda L., BSc PhD *Syd.*

.....

Boyd, R. A., BSc *Durh. & Oxon.*

Williams, J. B., BSc *Syd.*

Green, J. W., MSc *W.Aust.*

Charley, J. L., BScAgr *Syd.*, PhD

2 Temp. Lectrs., 5 Demrs.

Chemistry

Inorganic and Physical

Stokes, R. H., DSc *N.Z.*, PhD *Camb.*,

FRACI, FRIC, FAA

Prof.

Dudley, F. B., BSc *Melb.*, PhD

Stimson, V. R., BSc DipEd *Syd.*

Fielding, P. E., MSc *Syd.*, PhD *N.S.W.*

.....

1 Res. Fellow, 7 Demrs.

Organic

Riggs, N. V., BSc *Adel.*, PhD *Camb.*

Sr. Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Classics

Bishop, J. H., MA *Camb.*

Letters, F. J. H., MA LLB *Syd.*,

Hon. DLitt *N.U.I.*

Kelly, M. N., MA DipEd *Syd.*

Dale, W. A., BA *Tor.*, MA PhD *Calif.*

McCready, A. G., BA *Q'ld.*

Crowhurst, R., BA *Lond.*

McDevitt, A. S., BA *Camb.*

1 Tutor

Economics

Belshaw, J. P., MA *N.Z.*, PhD *Manc.*

Duncan, R., MA *Adel.*

Bjeda, K., MA *Aberd.*

Boehm, E. A., MEd AUA *Adel.*,

DPhil *Oxon.*

Neville, J. W., BA *W.Aust.*, PhD *Calif.*

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Sr. Lectr.

Sr. Lectr.

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Lectr.

* Member of the Association of Universities of the British Commonwealth

Clayton, R. E., BEc Syd, MSocSci(Econ)
 Dip Stockholm Lectr.
 McKee, A. F., MA N.Z., DUParis Lectr.
 Davies, P. H., BA BEc Syd Lectr.
 Lectr.
 Crew, N. D., BCom Melb. Res. Fellow
 4 Tutors, 1 Grad. Asst.

Education

Richardson, J. A., BA Liv., MA
 DipEdPsych Birm., PhD Q'ld. Prof.
 Olphert, W. B., MA DipEd N.Z. Sr. Lectr.
 Katz, F. M., MA BEd Melb. Lectr.
 Bewley, D. R., MA Oxon., BEd Edin. Lectr.
 Lectr.
 7 Lectrs.†

English

Piper, H. W., BA DLitt Adel., MA Oxon. Prof.
 McKenzie, K. A., MA DipEd Melb.,
 DUParis Assoc. Prof.
 O'Brien, C. J. H., MA DipEd Syd. Sr. Lectr.
 Liggins, Elizabeth M., MA Syd.,
 PhD Lond. Sr. Lectr.
 Davison, D., MA Sheff. Sr. Lectr.
 Clark, C. C., BA W.Aust., MA Oxon. Lectr.
 Ryan, J. S., BA Oxon., MA N.Z. Lectr.
 Hoddinott, W. G., MA DipEd Oxon. Lectr.
 Rand, F. H., BA Qu., MA McG.,
 DUParis Lectr.
 1 Temp. Lectr., 1 Tutor

French

Davies, J. C., BA DipEd Syd., DUParis Prof.
 Blanche, Isabel M., BA DipEd Syd.,
 Dd'EU Paris Sr. Lectr.
 Marshall, F. W., MA N.Z., DUParis Lectr.
 Leech, Valerie A., MA DipEd Melb. Lectr.
 2 Temp. Lectrs.

Geography

Butland, G. J., BA PhD DipEd Birm. Prof.
 Thorpe, E. W. R., BSc Syd. Sr. Lectr.
 King, H. W. H., MA DipEd Syd.,
 PhD A.N.U. Sr. Lectr.
 Chapman, E. C., MA DipEd Syd. Lectr.
 Woolmington, E. R., MA Syd. Lectr.
 Plummer, B. A. G., MA Wales Lectr.
 Holmes, J. H., MA DipEd Syd. Lectr.
 Warner, R. F., BA Birm. Lectr.
 Lectr.
 2 Temp. Lectrs., 3 Demrs.

Geology

Voisey, A. H., DSc Syd. Prof.
 Wilkinson, J., MSc Q'ld., PhD Camb. •
 Assoc. Prof.
 Stanton, R. L., MSc PhD Syd. Sr. Lectr.
 Sr. Lectr.

Harrington, H. J., MSc N.Z., DPhil Oxon. Prof.
 Sr. Lectr.
 2 Res. Assts., 5 Demrs.

German

Coghlan, B. L. D., BA PhD Birm. Prof.
 Holloway, F., BA DipEd Wales, MA Oxon. Sr. Lectr.
 Sr. Lectr.
 McGill, I. K., MA AUA Adel. Lectr.
 Husak, Lesal, BA Melb. Lectr.
 2 Temp. Lectrs.

History

Williams, C. M., BA Melb., DPhil Oxon. Prof.
 Tapp, E. J., MA N.Z. Assoc. Prof.
 Dalton, B. J., MA N.Z., DPhil Oxon. Sr. Lectr.
 Turner, L. C. F., MA Rand Sr. Lectr.
 Ward, R. B., MA DipEd Adel.,
 PhD A.N.U. Sr. Lectr.
 Walker, R. B., MA Syd, PhD Liv. Sr. Lectr.
 Getzler, I., BA Melb. Lectr.
 Jones, G. F. T., MA N.Z., DPhil Oxon. Lectr.
 Fraser, E. M., BA Camb., MA N.Z. Lectr.
 McBryde, I., MA Melb., DipPrehistArch
 Camb. Lectr.
 Dolan, J. A., BA Edin. Lectr.
 Lectr.
 1 Temp. Lectr., 3 Tutors

Mathematics

Smith, R. C. T., MA BSc Melb.,
 DPhil Oxon. Prof.
 Taylor, N. W., MSc Syd., PhD Sr. Lectr.
 Horadam, A. F., BEd Melb., MA PhD
 DipEd Syd. Sr. Lectr.
 Adkins, B. L., BSc Q'ld., MA Melb. Sr. Lectr.
 Horadam, Mrs. E. Mollie, MA Camb.,
 BSc(Eng) Lond. Lectr.
 Majstrenko, P., MSc Copenhagen Lectr.
 Burr, E. J., MSc Q'ld. • Lectr.
 Lush, P. E., MA PhD Melb. Lectr.
 Lectr.
 3 Tutors, 1 Grad. Asst.

Philosophy

..... Prof.
 McIntosh, G. F., BA Syd. Sr. Lectr.
 Russell, A. C., BA Syd. Sr. Lectr.
 Goddard, L., MA BPhil St.And. Sr. Lectr.
 Robinson, E. B., MA LLB N.Z. Lectr.
 Llewelyn, J. E., BA Wales, MA Edin. Lectr.
 Kovesi, J. G., BA W.Aust., BPhil Oxon. Lectr.
 Lectr.

Physics

Somerville, J. M., MA Camb., DSc Syd.,
 FIP Prof.
 Smith, R. A., BSc PhD Syd. Sr. Lectr.
 Landecker, K., Ding Berl. Sr. Lectr.
 Hubbard, F. H., BSc W.Aust.,
 MSc PhD Syd., FIP Sr. Lectr.
 Haydon, S. C., MA Oxon., PhD Wales Sr. Lectr.

AUSTRALIA

Fletcher, N. H., BSc *Syd.*, MA PhD *Harv.*

Sr. Lectr.

Sr. Res. Fellow

Schroder, G. A., DipVorp DipHaup *Hamburg*

Res. Fellow

1 Temp. Lectr., 3 Res. Assts., 5 Demrs.

PsychologyHowie, D., MA DipEd *W.Aust.*,
PhD *Lond.*

Prof.

Barratt, P. E. H., MA *Syd.*

Sr. Lectr.

Gabriel, J., BA PhD *Lond.*

Sr. Lectr.

Feather, N. T., BA DipEd *Syd.*,PhD *Mich.*, MA

Sr. Lectr.

Savage, R. D., BA *Durh.*, PhD *Lond.*

Lectr.

McDonald, R. P., BA MSc *Syd.*

Lectr.

2 Temp. Lectrs., 3 Demrs.

ZoologyO'Farrell, A. F., BSc *Lond.*

Prof.

Stock, A., PhD *Vienna & Edin.*

Assoc. Prof.

Murray, P. D. F., DSc *Syd.*, Hon. MA *Camb.*,BSc *Oxon.*

Reader

Brereton, J. Le G., BSc *Syd.*,DPhil *Oxon.*

Sr. Lectr.

Giles, E. T., MSc *N.Z.*, PhD *Lond.*

Sr. Lectr.

de Bavy, J. M., BSc *Tas.*

Lectr.

McKenzie, R. J., MSc *Melb.*

Lectr.

2 Res. Assts., 7 Demrs

RURAL SCIENCE**Agronomy**Veale, J. A., MSc *N.Z.*, DIC, PhD *Lond.*

Sr. Lectr.

McGarity, J. W., MScAgr PhD *Syd.*

Sr. Lectr.

Watkin, B. R., MAgrSc *N.Z.*, PhD *Lond.*

Lectr.

.....

Lectr.

2 Demrs., 2 Lectrs.†

GeneralPatchell, M. R., MAgrSc *N.Z.*

Sr. Lectr.

Lindsay, D. B., BSc MA DPhil *Oxon.*

Sr. Lectr.

Passey, R. F., BScAgr *Syd.*, PhD *McG.*

Sr. Lectr.

Stephenson, S. K., MSc *N.Z.*, PhD *Syd.*

Sr. Lectr.

Sr. Lectr.

Kwapinski, J. B., MD *Poznan*,CanSc *Warsaw*

Sr. Lectr.

Mackinnon, M. M., BSc *Edin.*

Lectr.

.....

Lectr.

1 Res. Asst., 2 Demrs., 3 Lectrs.†

Livestock HusbandryYeates, N. T. M., PhD *Camb.*,DAgrSc *Q'ld.*

Assoc. Prof.

Ryder, M. L., MSc PhD *Leeds*

Sr. Lectr.

.....

Lectr.

1 Res. Asst., 1 Demr.

Nutrition and Chemical PathologyMcClymont, G. L., BVSc *Syd.*, PhD *Camb.*

Prof.

Annisson, E. F., PhD *Lond.*, FRIC

Sr. Lectr.

Cumming, R. B., BVSc *Pret.*

Lectr.

Somers, M., BSc PhD *W.Aust.*

Lectr.

White, R. R., BSc *Lond. & N.Z.*

Res. Fellow

2 Demrs.

PhysiologyEvans, J. V., BVSc *Syd.*, BSc *N.Z.*

Assoc. Prof.

Williams, J. V., MScAgr *W.Aust.*

Lectr.

Webster, M. E. D., MSc *N.Z.*

Lectr.

Blunt, M. H.

Res. Fellow

1 Demr.

EXTERNAL STUDIESSheath, H. C., BSc BE *Syd.*

Dir.

Hopper, M. W., BSc DipEd *Syd.*, BA

Asst. Dir.

Gilbert, L. A. J., BA Res. & Information Officer

Lancaster, J. K. Admin. Officer

ADULT EDUCATIONNelson, A. J. A., BA *Adel.*

Dir.

Howard, A. C. M., BA *Syd.*, BEd *Melb.*

Asst. Dir.

Praed, J. M., BA *W.Aust.*

Sr. Lectr.

Warburton, J. W., MA *N.Z.*

Sr. Lectr.

Dunton, A. F., BA BEd *Q'ld.*

Sr. Lectr.

Shaw, J. H., MSc DipEd *Syd.*

Sr. Lectr.

1 Admin. Asst.

ADMINISTRATIVE AND OTHER STAFF

UNIVERSITY OFFICE. Accountant: W. Dodds.
Asst. Registrars: K. R. Long, BA *Syd.*; R.
McCaig, BA *Q'ld.*; F. P. Smith, BCom *Melb.*
Clerk of Exams.: Evangeline Harris. Asst.
Accountants: S. T. Collinson-Smith; J. A.
Rodgers.

CHAPLAINS. Rev. M. McGregor, BA (Angli-
can); Rev. A. Ebbs (R.C.); Rev. N. McLeod
(Presbyterian)†; Rev. J. S. Udy, BA *Syd.*, STB
Boston, PhD *Harv.* (Methodist)†.

BUILDINGS AND GROUNDS. Officer of Works:
R. K. Lindsay, BE *Syd.*

LIBRARY. Assoc. Librarian: V. Crittenden,
BA *Syd.*, BLS *Tor.*, BSc(Econ) *Lond.* Asst.
Librarians: Edith M. Tattersall, BA *W.Aust.*;
Winifred R. Richardson, BA *Q'ld.* Archivist:
R. J. McDonald, BA DipEd *Syd.*

COLLEGES WITHIN THE UNIVERSITY

DUVAL COLLEGE (tel.: Armidale 3528). For women. Principal—G. Audrey Rennison, MA *Camb.*, CertSocSc&Adm L.S.E.

MARY WHITE COLLEGE (tel.: Armidale 3140). For women. Principal—Mary F. Bagnall, MA *Melb.*

ROBB COLLEGE (tel.: Armidale 4493). For men. Master—B. C. J. McEldith, OBE, BA *DipEd Melb.*

WRIGHT COLLEGE (tel.: Armidale 3141). For men. Master—A. Treloar, MA *Melb.* & *Oxon.*

GENERAL INFORMATION

In 1938, at the request of the citizens of northern N.S.W., the New England Univ. Coll. was established as a branch of the Univ. of Sydney. The coll. thus became the first experiment in univ. decentralization in Australia. Teaching began in 1938 in the fac. of arts with an enrolment of 19 and in the fac. of sci. the following yr.

In 1953, following representations over a number of yrs., the Univ. of New England was established by act of the N.S.W. parliament and granted autonomy from Feb. 1, 1954.

CONSTITUTION. The univ. consists of the council, convocation, postgrad. and undergrad. students. The governing authority of the univ. is the council, which consists of 6 members apptd. by the governor, the director general of educn. of N.S.W., the principal of the Armidale Teachers' Coll., the vice-chancellor, 4 reps. of the teaching staff, 6 elected by convocation, one by undergrads. and 4 by members of council. The chancellor, who is elected by council, is the head of the univ., and the vice-chancellor is the chief executive officer. The sr. academic body of the univ. is the professorial bd., which consists of the vice-chancellor, profs. and hds. of depts.

INCOME (1960). For general univ. purposes: £A1,175,925 (Commonwealth govt., 14 per cent.; state govt., 70 per cent.; residential fees & sale of farm products, 7 per cent.; tuition fees, etc., 9 per cent.). For bldgs., etc.: state govt., £A232,000, Commonwealth govt., £A174,000.

FACULTIES AND DEANS. *Agric. econ.*, Prof. J. N. Lewis; *arts*, Prof. G. J. Rutland (*geog.*); *sci.*, Dr. F. H. Hibberd (*phys.*); *rural sci.*, Prof. G. L. McClymont (*nutr.* & *chem. pathol.*).

UNIVERSITY PRECINCT. The univ. site consists of some 1300 acres on the outskirts of Armidale, and includes a 400-acre farm. The original bldg. on the site, 'Booolominbah', an old country homestead, provides a headquarters for the admin. staff and a coll. dining room. A mod. union bldg. has been built together with a library, teaching and lab. blocks.

LIBRARY. Dixon library: about 80,000 vols.; subscribes to 1500 periodicals. Addl. 20,000 vols. (for use of external students) housed in pub. libr. of New South Wales, Sydney.

LABORATORIES. *Agric. econ.*, bot., chem., geol., phys., rural sci., zool.

FIELD STATION for res. into properties of the ionosphere. In the univ. grounds are the labs. connected with a large C.S.I.R.O. field res. stn. of 4500 acres situated about 10 mls. from Armidale. The UNIV. FARM of 400 acres provides facilities for field studies connected with the fac. of rural sci.

The ARMIDALE TEACHERS' COLLEGE provides facilities for teacher trainees who are undertaking univ. courses and for grads. who are pursuing the dipl. in educn. course.

ADMISSION. See Appendix III.

NON-MEMBERS OF THE UNIVERSITY. Anyone wishing to attend univ. lectures may do so upon payment of such fees as the council may from time to time direct, provided that any such person must obtain the approval of the fac. concerned before attending lectures and (if at time of entry he is qualified to do so) he matriculates.

FIRST DEGREES. 3 yrs.—BA pass, BSc pass; 4 yrs.—BA hons., BSc hons.; BRurSc pass, hons.; BAgEc pass, hons.

Main specializations for first degrees. *Arts*: classics, Latin, Greek, econ., educn., Engl., French, German, geog., hist., maths., philos., psychol. *Sci.*: bot., org. chem., phys. chem., geog., geol., maths., phys., zool. *Rural sci.*: physiol., livestock husb., nutrition & chem. pathol., agron., biochem., genetics, pathol. & livestock health. *Agric. econ.*: farm management, marketing & distribution, econ. stats., econ.

The lecture time-table is so arranged that evg. students may study pt.-time and complete a BA degree.

HIGHER DEGREES. MA—3 yrs. from BA pass, 2 yrs. from BA hons. (under new regns., MA is awarded in 2 classes of hons., depending on merit); MSc—1 yr. from BSc hons., 2 yrs. for grads. of other univs.; MRurSc—1 yr. from BRurSc; MAgEc—2 yrs. from 1st degree; PhD—available in all facs. 3 yrs. from 1st degree; DLitt—8 yrs. from 1st degree, awarded for original contribution of distinguished merit adding to knowledge and understanding of any branch of learning with which fac. is concerned; DSc, DRurSc—awarded for substantial and original contribution to knowledge and understanding of a sub. within scope of respective facs. Grads. of other univs. are required to have at least 2 yrs' assocn. with the

univ before presenting a thesis for a higher degree

DLit and DSc also awarded as HONORARY DEGREES.

EXTERNAL TUITION. Courses leading to BA pass degree are offered by correspondence, but only persons resident in N.S.W. who cannot attend a local univ (Sydney, Newcastle, Canberra, Armidale) can be considered for external enrolment. External courses leading to DipEd (Secondary Teaching) and DipEdAdmin offered to grads. resident in N.S.W.

DIPLOMAS DipEd (1 yr for internal students, 2 yrs for external students), offered internally in secondary, primary or infants teaching and externally in secondary teaching or admin. of educn. DipEdAdmin (external only, 2 yrs postgrad.).

RESEARCH The usual facilities for postgrad. res. are provided in the various depts

STUDY LEAVE 1 yr. on salary after completion of 6 yrs' service for full-time members of teaching staff

FEES (excl student orgn. fees) Matric, £A3, degree courses in arts. (pass, 3 yrs) £A294, (hons, 4 yrs) £A402, degree courses in sci (pass, 3 yrs) £A327, (hons, 4 yrs) £A435, degree courses in rural sci (pass and hons, 4 yrs) £A435, degree course in agric. econ (pass and hons, 4 yrs) £A435, DipEd, £A108

ACADEMIC YEAR March to Dec · 3 terms of 10 wks each

ADULT EDUCATION. The dept of adult educn is responsible for a substantial programme of residential and non-residential courses, primarily in the fine arts, lit, rural sci, soc. scis and community affairs. Experimental work in rural adult educn is being undertaken. The dept. provides an advisory service to rural communities on their developmental problems.

PRINCIPAL 'OPEN' ENTRANCE AWARDS Commonwealth scholps (all facs, see pp. 12-13), Teachers' College scholps (facs of arts, sci and rural sci), State Dept cadetships and traineeships (facs of rural sci and agric econ), Aust. Agric Council scholps. (facs of rural sci and agric econ)

PRINCIPAL 'OPEN' POSTGRADUATE AWARDS. Commonwealth scholps (all facs), I.C.I.A.N.Z. res. fellowships (all facs), General Motors-Holden's Ltd. res. fellowships (all facs), Wool res. fellowships (all facs), C.S.I.R.O. postgrad.

studentships (all facs); Aust. Atomic Energy Commission postgrad studentships

STUDENT RESIDENCES The univ is completely residential. All internal students are required to live in univ. colls or residences except those who live in Armidale with their family or guardian. At the 4 colls within the univ (see p. 61), there is accomm. for 616 students (Duval Coll, 122 women, Mary White Coll, 118 women, Robb Coll, 192 men, Wright Coll, 184 men). Full board and lodging in colls or residences costs £A140 per academic yr and £A5 per wk. out of term. Each college fellow or tutor acts as personal tutor to a number of undergrads and is responsible under the master or principal for their academic or gen. welfare.

STAFF RESIDENCES The univ has a small no. of furnished houses available for rent by new staff for short periods. Finance available on mortgage to full-time academic staff and other approved members through the univ bankers to buy or build a house (max advance 90 per cent of valuation)

UNIVERSITY MILITARY FORMATION 'D' Co of the Sydney Univ Regiment is recruited at the univ

STUDENT HEALTH SERVICE Each student is required to contribute £A8.9s yearly to a med. fund which entitles him, under certain conditions, to free med. treatment while in residence.

THE STUDENTS' REPRESENTATIVE COUNCIL is elected from and by students to speak and act on their behalf in matters involving their relationship with other members and bodies of the univ

UNION T. R. Forster memorial union, completed in 1956, provides reading rooms, common rooms, cafeteria, etc., for students and staff; post office, savings bank agencies and shopping facilities available. Governed by a bd of management representing staff and students

SPORT. An active sports union provides for all major sporting activities. The Consett Davis memorial playing fields provide for cricket, football, hockey, tennis, baseball and basketball

PUBLICATIONS Calendar (biennially), Handbook (annually), Res. Report (annually), Bulletin (3 issues p.a.), Neucleus (student newspaper, fortnightly, during term) Magazines of the Arts and Science Soces (annually) Monographs on New England Regional Research (occasional).

THE YEAR 1960

BENEFACTIONS. Total value of all benefactions received · £A89,536

MAJOR BUILDING DEVELOPMENTS Bldgs completed · Dixon Library Approaching completion Wright Coll. dining hall, bot. pool. sch.

RESIGNATIONS G. W. Bassett (educn.), apptd prof of educn, Q'ld, P. M. Wetherell (French), apptd teaching post, Algeria, D. A. Calman (hist.), apptd teaching post, Japan, A. J. Yates (psychol.), apptd sl. lectr., W. Aust., R. A. Robinson (inorg. chem.), apptd Bureau of Stan-

dards, Washington, D R Lamond (rural sci),
apptd CSIRO; W Candler (agric econ),
apptd Massey Agric Coll, NZ

Statistics

STUDENT NUMBERS, 1961

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time*</i>	<i>External</i>
Men	412	94	1344
Women	259	29	366
Total	671	123	1710

Distribution by Faculties *Agric econ*, 48,
arts, 1861, *rural sci*, 127, *sci*, 176 Postgrad
students (incl 140 DipEd and 47 DipEdAdmin),
292 Total 2504

Included in the figures above are —

Postgraduate students, 292

New admissions, 1082 (incl 837 external students)

Students from other countries, 34* (Country from which largest number came Malaya, 17)

DEGREES AWARDED (1960) *Arts* MA, 1,
BA (hons), 16, BA, 104* *Sci* MSc, 6, BSc
(hons), 9, BSc, 9, BRurSc (hons), 4; BRurSc,
5 PhD (all facs) 4

DIPLOMAS AWARDED (1960). DipEd, 74

* Part-time students are those taking half or less of the normal subjects in any year

UNIVERSITY OF NEW SOUTH WALES*

Incorporated in 1949 as The New South Wales University of Technology

Postal Address: Box 1, Post Office, Kensington, New South Wales, Australia

Cables and Telegrams: Unitech, Sydney

Telephone: 663 0351

CHANCELLOR—The Hon Mr Justice J S J CLANCY, LLB Syd

DEPUTY CHANCELLOR—R J WEBSTER, CMG, OBE, MC, FASA

VICE-CHANCELLOR—J P BAXTER, CMG, OBE, BSc PhD Birm., FAA, FRACI

PRO-VICE-CHANCELLORS—D. W. PHILLIPS, BSc Wales, PhD Camb., DipMetMin, FGS, R. H. MYERS, MSc PhD Melb, FIM, FRACI

REGISTRAR—G. L. MACAULEY, BEc Syd

BURSAR—J. O. A. BOURKE, BA Syd.

LIBRARIAN—J. W. METCALFE, BA Syd, FLA

TEACHING STAFF

Accountancy

Smyth, E. B., FASA, FCAA, Prof.
 Stewart, W. J. McK., BA BCom Melb, FCAA, Assoc Prof.
 Airey, C. R., BA BEc BSc DipEd Syd., Sr Lectr.
 Bowra, R. L., LLB Syd, Sr Lectr.
 Burke, W. L., BA BEc Syd, FASA, Sr Lectr.
 Dryden, R. G., FASA, FCAA, Sr Lectr.
 Forster, A. A., FCIS, FASA, Sr Lectr.
 Lee, L. N., BA BCom Qld, Sr Lectr.
 McPherson, L. A., Sr Lectr.
 Bowles, G. N., BEc Syd, Lectr.
 Cook, W. G., BCom Melb., Lectr.
 Gullick, C., Lectr.
 Howitt, G., BEc Syd, Lectr.
 Levy, V. M., BEc Syd, Lectr.
 1 Tutor, 1 Teaching Fellow

Edmonds, Irene A., MA Syd, Lectr.
 Jarvis, W. A. H., BA DipEd Syd., BEd Melb, Lectr.
 Kenna, C. P., BA BSc Syd, Lectr.
 Murray, J. C., BA Syd., Lectr.
 Yensen, R., MA W Aust., PhD Camb., Lectr.
 1 Tutor

Architecture and Building

... Prof, Hd. of Sch
 ... Prof
 Freeland, J. M., MArch DTRP Melb, Assoc Prof
 (Bldg) Assoc Prof.
 Anderson, N. J., BArch Syd, MArch Liv., Sr Lectr.
 DipTP Lond, FRAIA, Sr Lectr.
 Chalmers, R. D., BSc(Eng) Lond, Sr Lectr.
 Daniels, E. C., Sr Lectr.
 McDonnell, G. H. B., BAich Syd, FRAIA, Sr Lectr.
 Mack, A. H., BArch Syd., Sr Lectr.
 Phillips, R. O., BArch Syd, MArch, Sr Lectr.
 Shaw, J. H., BE DipTCP Syd, MCD Liv., Sr Lectr.

Anatomy

Blunt, M. J., MB BS PhD Lond, Prof.
 O'Brien, B. R. A., BSc PhD Syd, Assoc Prof.
 1 Tech Officer, Sr Lectr.

Applied Psychology

Clark, J. F., MA BSc DipEd Syd, PhD Lond, Prof.
 Davies, E. E., MA Syd, Sr Lectr.
 Martin, R. T., BA DipPubAdmn Syd, Sr Lectr.
 Olley, A. K., BA Syd, Sr Lectr.
 Porebski, O., MA PhD Lond, Sr Lectr.
 Andersen, W. E. C., BA DipEd Syd, Lectr.
 Carey, A. E., BSc Lond, Lectr.
 Clark, A. W., MA Melb, Lectr.

Spooner, P., DipLandscape Des Durh., Sr Lectr.
 Sutton, R. G., SM M I T., Sr Lectr.
 Bazeley, N. F., Lectr.
 Dunphy, M. J., FRAIA, Lectr.
 Head, R. A. G., Lectr.
 Jack, A. A., Lectr.
 King, J. L., BArch DipTCP Syd, Lectr.
 Kollar, L. P., Lectr.
 Lawrence, Mrs Anita B., MArch, Lectr.
 Lennon, D., BArch Syd, Lectr.
 Nimmo, Lonla M., Lectr.

* Member of the Association of Universities of the British Commonwealth

Patrik, I R Lectr
 Purkis, A. E. R. Lectr.
 Stevens, C W Lectr.
 Styles, J Lectr
 Thackray, R N Lectr
 1 Tech. Officer

Biological Sciences

Ralph, B J F., BSc *Tax*, PhD *Liv*, FRACI Prof
 Barbour, R G. H., BScAgr *Syd*, MSc Sr Lectr.
 Hindmarsh, Mary M., BSc PhD *Syd* Sr Lectr.
 Moss, F. J., MB BS *Melb* Sr Lectr.
 Ruenis, K. G., MSc *Syd*, PhD *Burm* Sr Lectr.
 Stephenson, Mrs. Elsie M., MSc *N Z*, PhD *Lond* Sr. Lectr.
 Tepitzky, D. R., BE BSc *N Z*, PhD *Syd* Sr Lectr.
 Goddard, C. K., BSc *Edn*, PhD *St And* Lectr.
 Hannon, Nola J., BSc PhD *Syd* Lectr.
 Ilse, D., BSc *Pret* Lectr.
 Macey, M J K., BSc *Lond* Lectr.
 O'Gower, A K., MSc PhD *Syd* Lectr.
 Robinson, E. S., MSc *N Z*, PhD *Nebraska* Lectr.

Shipp, E., BSc *Syd* Lectr
 Wood, A. E., BScAgr *Syd* Lectr
 3 Teaching Fellows, 4 Tech Officers, 2 Tutors

Business Administration

Wills, N. R., BEc MSc *Syd* Prof

Chemical Engineering

Fowler, R. T., BSc *Wales*, PhD *Lond*, DScEng *Syd* Prof
 Reuter, F. H., DrPhil *Berl*, FRIC, FRACI (Food Technol.) Assoc. Prof
 Buchanan, R. H., BSc *Corn*, PhD Sr Lectr.
 Roper, G. H., MSc PhD Sr Lectr.
 Doug, I. D., BSc(Eng) *Lond* Lectr.
 Edwards, R. A., BSc Lectr.
 Howard, F. O., BE *Syd* Lectr.
 Hunt, C. H. Lectr.
 Norman, J. R., BSc PhD Lectr.
 Souter, P., MSc *Syd*. Lectr.
 1 Teaching Fellow, 2 Tech Officers

Chemical Technology

Ayscough, F. W., BSc *Syd*, MSc Prof
 Connors, F. L., MSc PhD Sr Lectr.
 McCartney, E. R., BSc *Syd*, PhD Sr Lectr.
 Fowler, H., MSc Lectr.
 Haken, J. K., BSc Lectr.
 Madden, B. G., BSc Lectr.
 4 Tech Officers

Chemistry

Mellor, D. P., DSc *Tax*, FRACI Prof, Hd. of Sch.
 Angyal, S. J., PhD *Bud*, FRACI (Org. C.) Prof.
 Bosworth, R. C. L., PhD *Camb*, DSc *Adel.*, FRACI (Phys. C.) Assoc. Prof.

D

Cavill, G. W. K., MSc *Syd*, PhD DSc *Liv*, FRIC (Org. C.) Assoc. Prof
 Green, J. H., MSc *Q'ld*, PhD *Camb* (Nuclear & Radiation C.) Assoc. Prof
 Anderson, J. R. A., MSc, FRIC Sr Lectr.
 Backhouse, J. R., MSc *Syd*, PhD Sr Lectr.
 Barclay, G. A., BSc PhD DipEd *Syd* Sr Lectr.
 Bryson, A., MSc BAppSc *Q'ld*, PhD Sr Lectr.
 Buchanan, G. S., MSc *Syd* Sr Lectr.
 Carswell, D. J., MSc PhD, DipEd *Syd* Sr Lectr.

Cole, E. R., MSc *Syd*, PhD Sr Lectr.
 Courtney, J. L., BSc PhD Sr Lectr.
 Davies, N. R., BSc PhD *Lond*, FRIC Sr Lectr.
 Dunstan, W. J., MSc *Syd* Sr Lectr.
 Eade, R. A., MSc *Syd*, PhD *Liv* Sr Lectr.
 Garnett, J. L., PhD *Chic*, MSc Sr Lectr.
 Gascoigne, R. M., MSc *Syd*, PhD *Liv* Sr Lectr.
 Gellert, E., PhD *Basle* Sr Lectr.
 Graddon, D. P., MSc PhD *Manc* Sr Lectr.
 Gutmann, F., PhD *Vienna*, FIP Sr Lectr.
 Harris, C. M., BSc PhD Sr Lectr.
 Luik, P. D., BEc *Syd*, MSc Sr Lectr.
 Livingstone, S. E. M. R., BSc PhD Sr Lectr.
 Martin, L. W. O., BSc *Syd* Sr Lectr.
 Martin, R. J. L., MSc *Melb*, PhD *Lond* Sr Lectr.

O'Brien, K. G., MSc *Syd*, PhD Sr Lectr.
 Sumes, J. J., MSc DipEd *Syd*, PhD *Liv* Sr Lectr.
 Sutton, G. J., MSc PhD, FRACI, FRIC Sr Lectr.
 Werner, R. L., MSc PhD Sr Lectr.
 Aylward, G. H., MSc Lectr.
 Barker, N. T., MSc Lectr.
 Chuswell, B., MSc Lectr.
 Clezy, P. S., BSc PhD *Tax* Lectr.
 Findlay, T. J. V., BSc PhD *St And* Lectr.
 Goodwin, H. A., BSc PhD *Syd* Lectr.
 Hall, F. M., MSc Lectr.
 Hannon, W. K., MSc *Syd* Lectr.
 Johnson, W. D., BSc *Syd*, MSc *N E* Lectr.
 Lenzer, Mrs. Adonise L., PhD *Vienna* Lectr.
 Martin, E. C., MSc Lectr.
 Morris, B. S., MSc *Syd* Lectr.
 Stephenson, N. C., MSc *Syd*. Lectr.
 Swinbourne, E. S., BSc PhD Lectr.
 Taylor, C. R., BSc *Syd*. Lectr.
 Watton, E. C., BSc Lectr.
 10 Teaching Fellows, 13 Tech Officers, 2 Depts

Civil Engineering

Munro, C. H., BE *Syd*, Prof, Hd. of Sch.
 Shaw, F. S., BE *W Aust*, BSc *Oxon*, DEng *Melb* Prof
 Hall, A. S., DIC, BSc(Eng) *Lond*. Assoc. Prof
 Vallentine, H. R., BE *Syd*, MS *Tona* Assoc. Prof
 Archer, F. E., BSc BE *Syd* Sr Lectr.
 Armstrong, S., BScTech *Manc.*, PhD *Sheff* Sr Lectr.
 Balint, P., BE *Bud*, ME Sr Lectr.
 Brettell, H. J., DIC, BE *Syd*, PhD Sr Lectr.
 Carmichael, A. J., BE PhD Sr Lectr.
 Hattersley, R. T. Sr Lectr.
 Jenkins, J. L., BE *Syd* Sr Lectr.
 Kitchen, E. M., BE *Syd*. Sr Lectr.

Nettleton, A. F. S., DIC, BSc BE Syd, ME	Sr Lectr.	Donaldson, G. W., MA BSc Oxon, BE Qld	Sr Lectr.
O'Connor, D. C., BE Syd, ME	Sr Lectr.	Ehlers, W. W. T. H., DrNatSci Hamburg	Sr Lectr.
Richardus, P., GradGeodEng T.H. Delft, ME	Sr Lectr	Gilbert, C. P., MSc Durh	Sr Lectr.
Ryan, P. W. S., DIC, ME	Sr Lectr	Huey, R. M., BSc BE Syd.	Sr Lectr
Shuleshko, P., DiplEng Poltava, CandPhys&MathSci Kharkov, DrTechSci Ukr Tech U inEagle	Sr Lectr.	Mortimer, E. L., BSc(Eng) Lond	Sr Lectr.
Watson, K. K., BE Syd, ME	Sr Lectr.	Parker, G. J., BSc BE Syd	Sr Lectr.
Welch, G. B., BE Syd, ME	Sr Lectr.	Bason, P. T., BE	Lectr.
Wesner, C. J., BSc Adel.	Sr Lectr.	Brown, R. F., BE Lw	Lectr.
Woodhead, R. W., BE Syd, ME	Sr Lectr.	Charlton, W. H.	Lectr.
Bennett, G. G., BSc Syd Melb	Lectr	Cole, D. J., BEE Melb.	Lectr.
Burton, J. R., BE Syd	Lectr	Edwardes, H. N., BSc BE Syd	Lectr.
Cridland, L., BE	Lectr	Goddard, B. R., BSc BE Syd	Lectr
Day, K. W., BSc Manc.	Lectr	Harrison, H., BSc BE Syd	Lectr.
Douglas, A. G., ME	Lectr	Hill, L. C., BE	Lectr.
Dudgeon, C. R., BE	Lectr	Humphries, H. L., BSc BE BEC Syd.	Lectr.
Edwards, L. S., BCE Melb, BEC Syd.	Lectr	Johnson, G. J., MSc Syd.	Lectr.
Fischer, H. K., DiplIng T.H. Hanover	Lectr	Lewin, F., BSc BE Syd	Lectr.
Foster, D. N., BE Syd	Lectr	Pawloff, O., DiplIng Berl.	Lectr.
Frisch-Fay, R. A., BE Bud, ME	Lectr	Stapleton, C. A., BSc BE Syd	Lectr.
Howell, D. T., BE Syd	Lectr.	3 Teaching Fellows, 4 Tech Officers	
Jones, P. B., BE Syd	Lectr.		
Jumisko, T., BE	Lectr		
Laurenson, E. M., BE	Lectr		
Learmonth, J. R., BE Syd	Lectr		
Newman, W. M., DIC, BSc Lond	Lectr		
Patten, B. J. F., BE Syd	Lectr		
Pauli, J. W., BE Syd	Lectr		
Pilgrim, D. H., BE	Lectr.		
Somerville, I. J., BE	Lectr.		
Ward, O. G. F.	Lectr		
Wood, I. R., BE N Z, ME	Lectr		
3 Teaching Fellows, 5 Tech. Officers			

Economics

Kemp, M., BCom MA Melb., PhD	Prof., Hd of Sch.
Johns H.	Prof
Hunter, A., MA Glas	Prof
Child, J., BCom MA N Z, DPhil Oxon	
Kubinski, Z. M., MA Leeds	Sr Lectr
Lamberton, D. M., BEC Syd	Sr Lectr.
Layton, R. A., MEc Syd	Sr Lectr.
Rivett, K. D., MA PhD Melb	Sr Lectr
Rowley, Sheila, MA W. Aust., MSc	
PhD N Carolina	Sr Lectr
Runcie, N., BEc Syd, PhD Lond	Sr Lectr
Soper, C. S., BCom Melb	Sr Lectr
Stalley, D. J., MEc Adel	Sr Lectr
Bernasek, M., MEc Syd	Lectr
Gordjew, I., BEc Syd	Lectr
Joseph, M. E., MA Camb.	Lectr
McCarty, J. W., BCom Melb	Lectr
2 Teaching Fellows	

Electrical Engineering

Vowels, R. E., ME Adel	Prof., Hd of Sch.
Lampard, D. G., MSc Syd., PhD Camb.	Prof
Dewsnap, G. C., MEE Melb	Assoc Prof
Blake, A. P., BSc BE Syd.	Sr Lectr.
Clarke, R. H. J., BE	Sr Lectr.

Highway Engineering

Orchard, D. F., DIC, BSc PhD Lond.	Prof.
Cumming, D. A., MA Oxon	Sr Lectr.
Spencer, L. C., BE	Sr Lectr.
Tierney, D. G., BE N Z	Lectr.
1 Tech Officer	

History

Salmon, J. H., MA N Z, MLitt Camb.	Prof
Nairn, N. B., MA Syd	Sr Lectr
Fletcher, B. H., BA Syd	Lectr.
Ingham, S. M., MA Melb	Lectr.
Meaney, N. K., MA Adel., PhD Duke	Lectr.
O'Farrell, P. J., MA N Z	Lectr
Packer, D. R. G., MA Melb	Lectr
Yarwood, A. T., BA DipEd Syd	Lectr

Hospital Administration

Fekin, A. J., BCom Melb., MA(HospAdmin) Iowa	Prof.
Burd, W. H., Supervisor, External Studies	Lectr
Steele, S. K., BCom Melb.	Lectr
Asst. Supervisor, External Studies	

Industrial Arts

Haynes, L. M., BA Syd
Lodge, K. A., BE Syd
1 Tech. Officer

Assoc Prof
Lectr

Mathematics

Bosson, G., MSc Lond. Prof, Hd of Sch
Blatt, J. M., BA Cinc., PhD Corn & Prm.,
FAPS (Appl M) Prof
(Pure M) Prof
Douglas, J. B., MA BSc DipEd Melb Assoc. Prof
Delve, L. M., MSc N Z, DPhil Oxon.
Griffith, J. L., BA MSc DipEd Syd. Sr Lectr
Grodin, C. M., DiplMath Zan. Sr Lectr
Kirkpatrick, C. B., MSc Syd. Sr Lectr
Lipton, S., MSc Lw. Sr Lectr
Senior, S. A., MSc DipEd Leeds Sr Lectr
Smith, W. E., MSc Syd., BSc Oxon Sr Lectr
Chatteji, S. D., MSc Luck, PhD Mch State
Clancy, B. E., BSc DipEd Syd, MSc
Cox, C. D., BSc DipEd Q'ld Lectr
Eggar, M. A., Staatsexamen DrNatSes
DipEd Berl Lectr
Elhott, A. G. L., BSc W Aust. Lectr
Hanson, M. A., BSc Q'ld, MSc Melb. Lectr
Low, A. H., MSc DipEd Syd, PhD Lectr
Lyness, J. N., MA DPhil Oxon Lectr
McGleghat, C. A., BSc BE Q'ld Lectr
McKay, M. H., MA DipEd Syd Lectr
Matak, R. F., PhMgr Cracoe, BA Syd. Lectr
Mustard, D. A., BSc Syd Lectr
Pietorius, W. J., DIC, MSc Rhodes Lectr
Prokhorovnik, S. J., BA BSc Melb Lectr
Reichel, A., MSc DipEd Syd. Lectr
Sandiford, J. St. A., MSc Syd. Lectr
Wilkins, C. A., MSc N.Z. Lectr

Mechanical Engineering

Willis, A. H., BSc(Eng) PhD Lond
Kettleborough, C. F., BE PhD Sheff Prof
Nuffield Res Prof
Hill, N. A., BE BSc Syd., SM M I T Assoc Prof
Hirschhorn, J., DiplIng D TechSc Vienna
Wood, J. F. D., BSc BE Syd Assoc Prof
Allen, A. F., BE Si Lectr
Barna, P. S., BE Bud, ME Syd Sr Lectr
Bonamy, S. E., BE Syd., MSc Birm Sr Lectr
Bryant, R. A., ME Sr Lectr
Carroll, A. J., BE Syd Sr Lectr
Corbett, R. E., DIC Sr Lectr
Csanady, G. T., DiplIng Munich, PhD
Davis, G. de Vahl, BE Syd, PhD Camb
Hool, J. N., BE Syd, DPhil Oxon
Munro, J., BE Syd
Sapsford, C. M., BSc(Eng) Lond, ME
Sr Lectr.

Szomanski, E., MEngSc Poland, BEC Tas

Si Lectr.

Tichaver, E. R., DiplIng DrTechSc

Sr Lectr

Albertnas

Sr Lectr

Tuft, R. J.

Sr Lectr

Weiss, K., DiplIng Vienna, ME

Sr Lectr

Baker, L. H., BE

Lectr

Bennett, G., BA Syd

Lectr

Buls, O. O. C. A., DiplIng Berl

Lectr

Borchardt, H. A., DiplIng E.T.H Zurich,

Lectr.

ME

Bowditch, H. G.

Lectr

Butler, G. D., BE

Lectr

Byron, R. A. V., BE Syd

Lectr

Close, J. F. C., BSc BE Syd

Lectr

Cooke, N., BSc Lond.

Lectr

Craddock, H. S., BE Syd

Lectr

Dodds, D. A. F., BMEchE Melb,

Lectr

SM M I T

Dodds, E. W.

Lectr

Harrison, J. Y., BE Syd.

Lectr

Hand, E. C., BE

Lectr

James, A. K.

Lectr

McKenzie, R. T. B.

Lectr

McLachlan, H. McD., BE Syd

Lectr

Muznicks, J. O., DiplIng Larova,

Lectr.

DringAer Rome

Roberts, A. W., BE

Lectr

Robertson, R. G., MA Oxon.

Lectr

Seiminger, H., DiplIng Berl

Lectr

Upfold, R. W., ME

Lectr

Van der Werf, P

Lectr

Walters, R. C. P

Lectr

Wulff, H. E., DiplIng Cologne

Lectr

4 Teaching Fellows, 8 Tech Officers

Medicine

Blacket, R. B., MD BS Syd, FRACP Prof.
Steinbeck, A. W., MD BS Syd,
PhD Lond Assoc Prof

Metallurgy

Mycus, R. H., MSc PhD Melb., FIM,
FRACI Prof., Hd. of Sch.
Muir, H., BMEtE Melb., ScD M I T
(Phys M) Prof
Bowles, J. S., MSc Melb. (Phys M) Res. Prof
Jenkins, A. E., BMotE MEngSc
PhD Melb Assoc Prof
Anderson, A. J., MSc Sr Lectr
Hathely, M., MSc Sr Lectr
Krysko, W. W., DiplIng Berl Sr Lectr
Wallwork, G. R., BSc PhD Sr Lectr
Armstrong, B. W Lectr
Barnes, T. W Lectr
Harms, B., BSc Syd, MSc Lectr
Hempel, F. H., BSc Melb Lectr
Keys, L. H., MSc Lectr
McDougall, P. G., BSc Lectr
Moran, V. J., BSc Lectr
Warner, N. A., BSc PhD Lectr
2 Teaching Fellows, 6 Tech. Officers

Microbiology

Prof

AUSTRALIA

Mining Engineering and Applied Geology

Philips, D W, BSc *Wales*, PhD *Camb.*,
DipMetMng FGS Prof., Hd of Sch
Morgan, J. P., BE *Adel* Prof.
(Geol.) Prof
Lawrence, L. J., DIC, BSc DipCom Syd,
PhD (Geol.) Assoc Prof
Burdon, R G, ME PhD
Kirov, N G., MSc *Leeds* Sr Lectr
Koch, L E, DrPhilHephil *Cologne* Sr Lectr
Loughnan, F C., BSc *Syd.*, PhD Sr Lectr
Barrett, D., MSc *Leeds* Lectr
Besden, K S, BSc PhD Lectr
Bell, A. D. M., BSc *Lond* Lectr
Cameron, J C, MA BSc *Edin* Lectr.
Carter, A. N., MSc *Adel.*, PhD *Melb* Lectr.
Cooley, D R., BE Lectr
Golding, H G, BSc *Lond*, MSc Lectr
Hawkins, L V, MSc *Syd.*, FGS Lectr
Markham, N. L., BSc *Adel.*, AM
PhD *Harv* Lectr
4 Teaching Fellows, 3 Tech. Officers, 1 Demr

Nuclear Engineering

Thompson, J J, BE PhD *Syd* Prof.

Pathology

Wilhelm, D L., MD BS *Adel.*, PhD *Lond* Prof
(Haematol.) Assoc Prof
Bartholomew, R J, BSc *Syd.*, PhD *Lond.*,
FRACI Sr Lectr

Philosophy

Thornton, J. B., BA BSc *Syd.* Prof
Hamblin, C. L., MSc *MA Melb.*,
PhD *Lond.* Sr. Lectr
Bradley, R. D., MA *N.Z.*, PhD *A N U.* Lectr
Dowling, R E., BA *Syd.*, PhD *Lond* Lectr
Roxon, Mrs Barbara A., BA *Syd* Lectr
Walters, R S., MA *Syd* Lectr

Physics

Milner, C J, MA PhD *Camb*, FIP
(Appl P.) Prof
Lederer, J., BSc *Syd*, MSc
(Optometry) Assoc Prof
McConnell, J F, MSc *Syd.*, PhD Assoc Prof.
O'Dwyer, J J, BSc BE *Syd.*, PhD *Lew*
Assoc Prof
Curnow, C E., BA MSc *Syd* Sr Lectr
Haneman, D, MSc *Syd.*, PhD *R'dg* Sr Lectr
Hansen, N. R., BSc DipEd *Syd.*, MSc Sr Lectr
Lishmund, R E, BSc PhD *St. And* Sr Lectr
Parry, L. G., BSc DipEd *Syd.*, MSc Sr. Lectr.
Pollard, H. F., MSc *W Aust.* Sr. Lectr.
Amigo, G., BSc Lectr.
Bowen, L. O., BE BSc *W Aust.*, MSc Lectr.
Burrows, K R., BSc *W Aust.* Lectr.
Giutronic, J. E., BSc *Syd.* Lectr.
Godfrey, G. H., MA BSc *Syd.*, FIP Lectr
Granger, C. T., BSc DipEd *Syd.*,
MSc *N.E.* Lectr.

Hanscomb, J. R, BSc *Q'd* Lectr.
Harris, R W., BSc *Syd.* Lectr
Kelly, J C, BSc *Syd.*, PhD *R'dg* Lectr
Lang, M McN., BSc Lectr.
Le Marne, A. E., BSc DipEd *Syd.* Lectr.
Marsden, K H, BSc *Lond*, MSc Lectr
Milledge, J A, MSc DipEd *Syd* Lectr
Schwartz, A., DiplIng *Vienna*, MSc *Lectr
Segal, A I., BSc *Melb* Lectr
Shepanski, J R, MSc *Syd* Lectr
2 Teaching Fellows, 7 Tech Officers, 1 Demr

Physiology

Korner, P I, MD BS MSc *Syd* Prof
Darian-Smith, I., MD BS *Adel* Assoc Prof.

Political Science

Atkins, Ruth, BA BEC DipEd *Syd.* Sr Lectr
Marchant, P. D., BA *Syd.* Lectr.
Palfreman, A C., L&S&Pol *Geneva* Lectr.

Psychology, see Appl Psychol.

Sociology

Brown, M S, MA DipEd *Syd.*, PhD *Lond* Prof
Congalton, A A, MA DipEd *N Z* Sr Lectr
Falding, H J, MA BSc DipEd *Syd.*,
PhD *A N U* Sr Lectr

Surgery

Rundle, F. F., BSc MD BS *Syd.*, FRCS, Prof.
FRACS, FACS
Tracy, G D, MB BS *Syd.*, FRCS Assoc. Prof

Textile Technology

Chaikin, M., BSc PhD *Leeds*, DipEng
L I. T. *Shanghai*, FTI Prof
Datyner, A, BSc PhD *Lond*, FTI Sr. Lectr.
Nicholls, C H, BSc *Adel.*, PhD *Leeds* Sr. Lectr.
Wood, F, BSc *Lond* Sr. Lectr
Dircks, A. D, BE *Syd.*, DipTextInd *Leeds* Lectr
Kenny, P., BSc Lectr.
Samson, A, DipEng *L I T Shanghai*, BE Lectr.
4 Tech Officers

Traffic Engineering

Blunden, W R, BSc BE *Syd.* Prof
Munro, R D, BSc *W Aust.*, BA *Melb.* Sr Lectr
Turner, H J A, BSc *Lond*, ME Sr Lectr
Tindall, J I, BE *Q'd* Lectr

Wool Technology

McMahon, P R, MAgrSc *N Z*, PhD *Leeds* Prof.
Roberts, E M, MAgrSc *N.Z.*, PhD Sr. Lectr.
Goldstone, C L, BAgrSc *N Z* Lectr.
McFarlane, J. D, BScAgr *Syd* Lectr.
McManus, W. R, BScAgr *Syd.*, PhD Lectr
Whitley, K. J., PhD *Leeds*, BSc Lectr
1 Teaching Fellow, 4 Tech. Officers, 1 Demr.

ADMINISTRATIVE AND OTHER STAFF

Dep Registrar A J T Ford, MC, BEc Syd
 Dep Bursar & Accountant E H Davis Officer-in-Charge, Bldg Planning & Devel C Parkes, Hon DSc, FRIBA, FRAIA Dir, Inst of Admin S C Derwent, BEc Syd Co-ordinator of Postgrad & Extension Studies Assoc Prof D Broadbent, BSc Birm, MEngSc PhD Melb Master of Basser Coll M G Mackay, BA Adel, BD Melb Dvo Coll, PhD Edin Asst Bursar (Bldgs and Grounds) L V O'Neill, BE Syd

Asst Registrar (Exams) J M Gannon Asst Registrar & Sec to Council J S Fraser Asst Bursar (Personnel) T J Daly, BEc Syd Educl Res Officers G A Gray, DFC, BA BEc Syd, L N Short, MSc DipEd Syd, DPhil Oxon Public Relations Officer G Cager, MA Oxon Supervisor of Amenities Assoc Librarian A Horton, BA Syd Reference Librarian E H Wilkinson, BA Syd, AM Chic

ASSOCIATED COLLEGE

NEWCASTLE UNIVERSITY COLLEGE

Established 1951

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Warden—J J Auchmuty, MA PhD Dub., FRHistS.

Registrar—J F. Foley, BEc Syd

Hd of Division of Applied Science—Assoc Prof E O Hall (Metall.)

Hd of Division of Arts—Assoc. Prof. B Newton-John (German).

Actg Hd of Division of Commerce—Prof J J Auchmuty (Hist)

Hd. of Division of Engineering—Assoc. Prof. E. M Goodger (Mech. Engin)

Hd of Division of Science—Assoc Prof. J. A. Allen (Chem.)

Teaching Staff

ACCOUNTANCY Lectrs B Colditz, J Dixon, BEc Adel, W J Sheehan, BEc Syd, R A Woodman, LLB Syd

ARCHITECTURE Sr Lectr. E C Parker. Lectrs H G Appleby; D D. Morris

CHEMICAL ENGINEERING/INDUSTRIAL CHEMISTRY Sr Lectr. J S Ratcliffe, MSc PhD Lectrs W G Kuchner, MSc, J Roberts, BSc, K L Smith, BE Syd

CHEMISTRY. Assoc Prof J A Allen, MSc Qld, PhD Brit, FRACI Sr Lectrs G C. Curthoys, BSc Syd, MSc, H Duewell, MSc Syd, PhD Camb, W F Pickering, MSc PhD, W R Walker, MSc DipEd Syd, F L Waud, MSc Qld Lectrs K. A Allen, MSc NZ, E. B Jacobs, BSc Syd; E P A Sullivan, MSc PhD Syd; H R Tietze, MSc Lond & Teaching Fellow

CIVIL ENGINEERING Sr Lectrs W S Butcher, BE Syd, G J Haggarty, BE Syd, SM M I T, A Herzog, DipChemE Bud, P W Kleeman, BE Adel & Sr Tutor

CLASSICS Sr. Lectr. R G Tanner, MA Melb. & Camb Lectrs. G. G Betts, BA Syd & Camb, B. W Roos, Drs Litt Class Utrecht

ECONOMICS Assoc Profs. C C Renwick, MSc Syd (on leave) Sr Lectrs W P Hogan, MA NZ, PhD ANU, B L. Johns, MA Camb, P W Sherwood, BCom Lond Lectr B L J Gordon, MSc Syd

ELECTRICAL ENGINEERING Sr Lectr H G Middlehurst Lectrs. J H Caldwell, BSc BE Syd, T Gluchareff, DipIng Munich, ME, R C Yates, BE Adel

ENGLISH. Sr Lectr D C Muecke, BA Adel, MA Oxon. Lectrs D B O'D Buggins, BA Lond, MA S'm., Robyn K Iversch, BA Syd.; T H Jones, MA Wales

FRENCH Sr. Lectr. K H Hartley, MA Syd, DU Paris Lectr. I P Barko, LicPhL Brussels, DU Stras & Sr Tutor

GEOGRAPHY Sr Lectrs K. W. Robinson, MA NZ; A D Tweedie, MA NZ Lectrs. E Derbyshire, BA DipEd N Staffs, MSc McG; W F Geyl, BSc Lond, Drs Phys Geog Utrecht

GEOLOGY Sr Lectrs Beryl Nashar, BSc DipEd Syd., PhD Tas, J H Rattigan, MSc Adel. Lectrs B A Engel, MSc NE, A S Ritchie & Demr

GERMAN. Assoc Prof. B Newton-John, MA Camb Lectrs. Marlene J Norst, BA DipEd Syd.; J D. Stowell, BA Melb

HISTORY Prof. J J. Auchmuty, MA PhD Dub, FRHistS Sr Lectr. G A Cranfield, BA PhD Camb Lectrs. A H Anderson, MA PhD Edin, J P S Bach, MA Syd, L E Fredman, MA LLB Melb, AM Stan, J M. Tregenza, MA Adel., PhD ANU

MATHEMATICS Sr Lectr I L Rose, BE Syd., PhD Lectrs. W. Brisley, BSc Syd.,

DipEd *NE*, J R Giles, BA *Syd*, J A Lambert, BSc *Syd*, M Temple, MA *Dub*; I F Vivian, BSc *Lond*.

MECHANICAL ENGINEERING Assoc Prof E M. Grogger, MSc(Eng) PhD *Lond* Sr Lectr A K Johnston, BE *Syd*, MS *Iowa*, PhD Lectrs E Betz, ME, K R Bridger, L W B Browne, BE *Syd*, M J Hallinan

METALLURGY Assoc Prof E O Hall, MSc N Z, PhD *Camb*, RIP Sr Lectr C G H Cooke, MSc Lectrs G B Johnston, MSc; J E McLernan, N A Molloy, BE *Qld*, W A Oates, BMct *Sheff*.

PHILOSOPHY Sr Lectr A M Ritchie, MA *Syd*, PhD *Lond* Lectrs A J Anderson, BA *Syd*, W V Domela, MA *Syd*, DrPhil *Freib*

PHYSICS Sr Lectr S C Baker, MSc *Syd*, PhD Lectrs K J Ausburn, BSc *Syd*, DIC, MSc *Lond*, J E Cleary, BSc, G A Harle, MSc *Syd*, J A Ramsey, MSc *Melb*

PSYCHOLOGY Sr Lectrs D R Martin, BA DipEd *Syd*; J W Stames, BA BEd *Syd*, BEd *Melb*, PhD *Lond* Lectrs B Fenelon, BA *Qld*, A C Hsl, BA *Rdg*, J A C Price, BA *Qld*

General Information

Under the terms of its act of incorporation the univ has power to establish colls. within the state of NSW and under this power establd Newcastle Univ Coll in Dec 1951 The govt of the coll is vested in the council of the univ A bd of studies consisting of the sr members of the academic staff of the coll supervises the teaching and examining of courses at Newcastle and is responsible to the professional bd and the council of the univ

LIBRARY The library contains 43,675 vols.

FIRST DEGREES. BA pass, hon., BArch pass, hon., BCom pass, hon. (accty, econ.), BE pass, hon. (civil, electr engin), BSc pass, hon. (chem engin, indust chem, sci), BSc(Tech) no hon. (pt-time) (chem engin, civil engin., electr engin., indust chem, mech engin, metall)

HIGHER DEGREES MA and, depending on particular field of study, ME, MCom, MSc and PhD

DIPLOMAS Postgrad dipl in educn (DipEd)

STUDENT NUMBERS Enrolments at Newcastle, 1960: 1162, consisting of higher degree, 55, DipEd, 16, 1st degree full-time, 485, 1st degree pt-time, 567; msc, 39

GENERAL INFORMATION

The univ. was incorporated by act of the NSW parliament on July 1, 1949—initially under the name of 'The N.S.W. Univ of Technology'—to meet the increasing demand in Australia for grads in scientific and technol fields In 1958 these original objectives were extended by the Univ of N.S.W. Act, 1958, which gave the univ. power to conduct courses and its and award degrees in the fields of med. and humane studies and in such other fields as the council may from time to time determine Courses for the BA degree were first offered in 1960, and in med (MB BS) in 1961

The univ from its inception has provided courses in the traditional fields of scientific educn and has built up schools in engin and in the physical, mathl and biol scis On this foundation the univ has in recent yrs extended its activities into such specialized technol fields as wool technol, textile technol, fuel technol and highway and traffic engin Courses are offered for degrees in most fields on both a full-time and a pt-time basis The first coll of the univ was establd at Newcastle in 1951 Pt-time courses for BSc(Tech) degree in electr engin., mech engin. and metall, and for BSc degree (chem), are offered at Wollongong A full college of the univ is being establd there with its own bldgs At Broken Hill pt-time courses in mining engin, mech engin and metall for BSc(Tech) degree, and in chem for BSc degree, are available The first two pt-time yrs of engin are offered at Orange In Broken Hill and Orange univ staff

and equipment are accommodated in the technol colls

The univ has establd within its academic structure a no of sp insts. to develop res. and conduct courses in fields which overlap the traditional subj divs There are insts of admin, highway & traffic res, nuclear engin and rural technol

The univ has also establd a company, Unsearch Ltd, controlled by the univ council, to provide a res and testing service to indust All profits are given to univ

CONSTITUTION The univ is governed by a council of 36 members representing the state parliament, industrial, commercial and agricultural bodies, employee organizations, tech educn, professl. orgns, the Univ of Sydney and the univ's own academic staff and its undergrads. and grads The professional bd is the main academic body of the univ There are 7 facs whose membership is made up of the sr. members of the constituent schs

INCOME (1960) Operating, £A3,018,938 (state parliament grants, 66.26 per cent, Commonwealth parliament grants, 20.67 per cent, fees & contributions from industry and other sources, 13.07 per cent) Also in 1960 the state parliament provided £A1,069,550 and the Commonwealth parliament £A491,988 to meet capital expenditure on bldgs and equipment In addition contributions from industry, comm and other sources

towards sp res and other purposes amounted to £A680,639

FACULTIES AND DEANS (1961) *Appl sci*: archit Prof F E Towndraw, *arts*: Prof M S Brown (sociol), *comm*: Prof E B Smyth (accty); *engin*: Prof A H Willis (mech engin), *med*: Prof F F Rundle (surg), *sci*: Prof J F. Clark (appl psychol)

UNIVERSITY PRECINCT The main site of the univ is in the Sydney suburb of Kensington where the original area of 70 acres was in 1960 enlarged to 95 acres with the acquisition of an adjoining golf course. Development at Kensington has reached the stage where all of the univ's schs except electr, mech and civil engin are located on this main site. The engin schs are at present located in the grounds of the Sydney Tech Coll but plans are well advanced for their accomm at Kensington. The 1st bldg of the med sch is nearing completion on the campus at Kensington.

LIBRARY Central libr at Kensington and jt. collections in univ. coll. and tech coll. libr used by staff and students. Univ holdings in all collections 151,970 vols.

LABORATORIES. In addition to teaching labs in the sei and engin schs there are a no of specialized labs including a radiochemical res lab, the UTECOM computing lab and, at Manly Vale, the water tes lab

ADMISSION See Appendix III

ADMISSION OF NON-MEMBERS With the approval of hd. of sch. concerned, unmatriculated students may attend classes and take exams, but such study cannot be counted as meeting the requirements for a degree

PUBLIC EXAMINATIONS. See Appendix III.

FIRST DEGREES 3 yrs—BA pass (4th yr for hons in Engl, hist, philos, sei thought, psychol, sociol, econ, maths), BSc pass (4th yr for hons in appl. ehem, biochem, ehem., geol, maths, microbiol, entomol., phys, psychol, theory of stats, zool.), BCom pass (4th yr for hons in accty, appl psychol, indust. relns, econ, stats), 4 yrs—BBuild, BSc pass, hons (appl geol, ceramic engin, ehem engin, food technol, fuel technol, indust aits, indust ehem, metall, mining engin, optometry, polymer sci, textile technol, wool technol), BE pass, hons (civl, electr, mech, mining, indust engin), BSurv pass, hons, BCom pass, hons (wool comm), 5 yrs (pt-time) (6th yr for hons)—BSc (appl psychol), BArch pass, hons, 6 yrs.—MB BS pass, hons., BSc(Tech) (pt-time), no hons (aeron engin, ceramics, ehem engin, civil engin., electr engin, food technol, fuel technol, indust chem, indust engin, mech, engin, metall., naval archit, polymer sci) Courses for the BCom, BAArch, BSurv and BSc (gen sci and appl chem) degrees may also be taken by pt-time study. Candidates for hons do work addnl to that required for pass degrees

Students in fies of appl sci, engin, med and

sei study the common 1st-yr subjs, maths, phys, chem plus a 4th subj from psychol, engin, gen. biol or geol. Choice of 4th subj depends on course being taken

Full-time and pt-time courses leading to degrees in arts, comm, engin and sci. are conducted at Newcastle Univ Coll (see p 69).

In all undergrad. courses a certain amount of time is devoted to the study of subjs of a gen. educl. character outside the student's particular field. Students in fies other than arts take courses in the humanities and soc scis, while arts students take 2 courses in scientific subjs. A feature is the inclusion of periods of practical try in industry as an essential part of the scientific and technological courses to supplement the lab and lecture room work

HIGHER DEGREES *Research degrees* MA, MSc, ME, MArch, MCom, at least 2 yrs from bachelor's degree of this or other approved univs. Candidates for these degrees may register either as full-time or pt-time students or as students working externally to the univ. (Pt-time students normally take more than 2 yrs to complete the requirements.) Under certain conditions grads may submit theses for the award of MSe or ME without supervision, PhD (available in fies of arts, appl. sci., archit., comm, engin and sei), at least 3 yrs from bachelor's degree with hons or equivalent from this or other approved univs. Degrees of MD and MS being establd in fac of med. DSe (also hon) in fies of appl sci, engin, or sci, 5 yrs or more from 1st degree. *Degrees with formal instruct.* MTech (available in fies of engin and appl sci), 1 yr full-time, 2 yrs pt-time (ehem. engin, communications engin, concrete structures, control engin, highway engin, hydraulics & hydrol., nuclear engin, pub health engin, structural analysis, traffic engin); MHA, 2 yrs (1 yr at univ, 1 yr. admin. expenience in hosps)

DIPLOMAS *Postgraduate.* Food and drug analysis, food technol, fuel sci, highway engin, industrial engin and wool technol, open to grads in appropriate fields, 1 yr full-time, 2 yrs pt-time. Librarianship, 2 yrs pt-time. Educn (DipEd), at Newcastle Univ. Coll

Undergraduate. The univ since 1951 has provided the instruen. in dipl courses in fields of comm, engin, sci and technol leading to the N.S.W. dept. of tech educn's dipl award (A.S.T.C.). Commencing in 1961 these courses are being gradually withdrawn and replaced by 6-yr pt-time degree courses leading to the univ's new pass degree BSe(Tech)

Dipl in sociol. (3 yrs pt-time)

SPECIAL POSTGRADUATE COURSES In addition to courses leading to a higher degree, the univ. presents series of lectures designed to keep grads. in touch with latest devels in their respective fields. Less intensive courses on specific technol problems are given to personnel in industry

STUDY LEAVE Academic and sr. admin staff, one yr after 6 yrs' service, or in the case of profs,

6 mos after 3 yrs' service Provision is made for special cases.

FEL Payable by all students' univ union membership, £A6 p a, students' union and sports assocn membership, £A3 p a, library fee, £A5 p a Undergrad matric, £A3, graduation, £A3, full-time course fee (except comm and arts), £A120 p a, pt-time course fee, £A60 p a, comm full-time and pt-time course fees, £A60 p a, arts course fees, (pass) £A27 p a per subj, (hons) £A36 p a per subj DSc £A31 10s, PhD registration, £A2, graduation, £A27, supervision, £A30 p a MSc, ME, MArch, MCom registration, £A2, graduation, £A15, internal students, full-time, £A30 p a, pt-time £A15 p a; external students, £A10 p a MHA registration, £A2, graduation, £A3, course fees, 1st yr, £A112, 2nd yr, £A30 MTech and grad dipl registration, £A2, graduation, £A3, course fee, term payment of £A2 multiplied by no of weekly hrs of instruct involved

ACADEMIC YEAR Mar to Nov · 3 terms of 10 wks each

PRINCIPAL 'OPEN' ENTRANCE SCHOLARSHIPS (For candidates reading for a first degree) Commonwealth scholps (see pp 12-13) awarded by Cwth govt, fees & living allowance, all facs Jt Coal Bd. & Aust Coal Assocn (Res), Ltd. £A300-£A500 p a, plus fees for 4 yrs in elect., mech or mining engin, or fuel technol. The John Heine £A100-£A150 p a for final 2 yrs in mech, elect., or chem. engin, appl chem, or metall Wool Industry scholps in wool technol. £A500 p a for 4 yrs Wool Res Trust Fund (6) £A400 p a. for 4 yrs, in text technol or wool technol Text. industry scholps, in text technol.

PRINCIPAL BENEFACTIONS Wool Research Trust Fund, £A31,430 for res in the schs of wool technol and text technol

(Total value of all benefactions received £A157,467)

MAJOR BUILDING DEVELOPMENTS Bldgs approaching completion. union bldg, Kensington, sci/engin and union bldgs, Newcastle Univ Coll.

NEW DEPARTMENTS AND CHAIRS. Chairs of bus. admin, geol, nuclear engin, school of nuclear engin, inst of admin

RETIREMENTS Dr N Rosenauer (mech engin), G B Howarth (metall)

DEATHS W C Wurth (chancellor), Dr E G Hopkins (electr. engin), F E Rice (archit.)

RESIGNATIONS J R Allen (mech engin), apptd to position in industry, R K Crowden

£A500 p a. for 4 yrs. Food technol. scholps £A400 p a for 3 or 4 yrs Colonial Sugar Refining Co Ltd. scholp in comm, £A600 p a. for full-time study

POSTGRADUATE FELLOWSHIPS, ETC ICIANZ res fellowship for British Commonwealth-grads, £A1100 p a. for 2 yrs. for study in fields related to interests of ICIANZ, Consolidated Zinc Metall scholp for graduates in metall, £A600 p a for 1-3 yrs for res in the industry with which the co is associated; Australian Atomic Energy Commission res studentships, £A800 p a for 1-3 yrs, Australian Inst of Nuclear Sci. and Engin. res studentships, £A800-£A1500 p a for 1-3 yrs, General Motors-Holden's res fellowships, £A800-£A1200 p a for 1-3 yrs, atmospheric pollution res fellowships, £A1000-£A1300 p a for 1-3 yrs, Commonwealth postgrad awards (see pp 12-13), £A700-£A900 p a for 1-4 yrs

RESIDENCE Accommodation is provided at Kensington in Basser Coll. for 200 men students in residence. Tutorial assistance available for resident students (Address Box 24, P O Kensington)

UNIVERSITY REGIMENT Established in 1951, the univ regiment is organized as an infantry bn with an establt of 35 officers and 805 other ranks. It consists of Bn HQ (2 platoons), support coy (4 platoons) and 4 rifle coys. CO Lt.-Col. J F Whittle, MBE

PUBLICATIONS *Calendar with Annual Report* (10s), *Faculty Handbooks*, *Newcastle Univ Coll Handbook*, *Technology*, *Vice-Chancellor's Letter to Graduates* Student Publications' *Tharunka* (fortnightly during term), *Engineering Yearbook*, *Science Yearbook*, *Orientation Handbook*

THE YEAR 1960

(biol scis), apptd. lectr in bot, Tas; D J Douglas (civil engin), apptd to post in industry, Dr Janet Graham (biol scis), apptd. lectr in biochem, Adel, H R Hudson (econ), apptd. sr lectr in econ, Adel, K Kmenta (econ), apptd lectr in econ, Syd, Prof D C Rowan (econ), apptd to chair of econ, S'ton, K S Sellick (civil engin), apptd to post in industry, J D Smith (chem technol), Dr B S Thornton (electr engin), apptd to post in industry, Edith M Werkhoven (maths) *Newcastle University College* Dr L Bodt (German), apptd lectr in mod langs, Monash, J B Beston (Engl), to higher studies, Harv

HONORARY DEGREES DSc—W F Sheahan, N.S.W. minister for health, C Y Syme, chairman of directors, BHP Co Ltd

[Contd on p. 82]

UNIVERSITY OF QUEENSLAND*

Founded 1909

Postal Address St Lucia, S W 6, Brisbane, Queensland, Australia

Cables and Telegrams University, Brisbane

Telephone Brisbane 72021

VISITOR—H.E. Col Sir HENRY ABEL SMITH, KCVO, DSO, Hon LLD
 CHANCELLOR—Sir ALBERT AXON, KBE, Hon DEng *Melb*, ME, MIEAust
 DEPUTY-CHANCELLOR—H G WATKIN, BA DipEd Hon LLD
 VICE-CHANCELLOR—Professor F J SCHONELL, MA *Bum*, PhD DLit *Lond*, FBPsS
 WARDEN OF COUNCIL—Sir ALAN MANSFIELD, KCMG, LLB *Syd*
 REGISTRAR—C J CONNELL, BCom AAUQ, FASA, FCAA
 LIBRARIAN—H BRYAN, MA

TEACHING STAFF

[†=Part-Time]

Agriculture		MacDonald, K, MSc <i>Syd</i>	St Lectr
Teakle, L J H, BScAgric <i>W Aust</i> , MS		Jackson, R B, MSc <i>Melb</i>	Lectr
PhD <i>Calif</i>	Prof	Dunstone, J R, MSc DipEd <i>Syd</i>	Lectr.
Skerman, P J., MBE, BA DAggrSc	Reader	Masters, C J, MSc <i>N Z</i>	Lectr.
McCarthy, W O., MAggrSc <i>N Z.</i> ,		2 Sr Demrs, 2 Demrs, 2 Demrs †, 3 Teach-	
PhD <i>Iowa</i>	Sr Lectr	ing Fellows	
Waring, S A, BAggrSc <i>Syd</i> (Agron)	Lectr.		
Fox, W. E, BSc	Lectr.	Botany	
Hughes, J D, BSc	Lectr.	Herbert, D A, DSc <i>Melb</i>	Prof
1 Lectr †, 8 Res Assts, 1 Demr, 1 Sr Res		Langdon, R F N, MAggrSc PhD	Reader
Fellow		Wilson, G L, DPhil <i>Oxon</i> , BAggrSc	Sr Lectr
Animal Husbandry		Abcrdeen, J E C, MAggrSc PhD	Sr Lectr
	Prof	Cubb, A B, MSc PhD	Lectr
Campbell, E A., BSc <i>Edn</i> , MA		Clifford, H T, MSc <i>Melb</i> , PhD <i>Durh</i>	Lectr.
PhD <i>Camb</i>	Sr Lectr	Barlow, B A, BSc PhD <i>Syd</i>	Lectr
Prior, W J, BVSc <i>Syd</i>	Si Lectr	8 Demrs, 1 Half-time Demr, 7 Demrs †	
McBride, G, BAggrSc <i>Adel</i> , PhD <i>Edin</i> ,		Chemistry	
MAgrSc	Sr Lectr	Jones, T G H, CBE, DSc <i>Syd</i> ,	
Springhall, J A, MBE, BVSc <i>Syd</i>	Lectr	Hon. LLD, FRACI	Prof.
Fallon, G R, BVSc	Lectr	Lahey, F N, DSc, FRACI	Res Prof
5 Lectrs †, 1 Demr, 5 Demrs †, 2 Res Fellows		Edmiston, E S, BSc BScApp, FRACI	
Architecture		(Indust C) Assoc Prof	
Cummings, R P, Hon. BArch, FRIBA,		Lauder, I, MSc <i>N Z</i> , PhD <i>Manc</i> , DSc,	
FRAIA	Prof.	FRACI	Assoc Prof
Lucas, F B, BArch <i>Syd</i>	Reader	Plowman, R A, BSc PhD <i>Lond.</i> , FRACI	
Juppenlatz, M	Sr Lectr	(Inorg C) Reader	
Marquis-Kyle, S. J, DipArch	Lectr	O'Connor, E A, MSc <i>Melb</i> , FRACI	Reader
Greig, W A	Lectr	Jenkins, G H, BSc MScApp, FRACI	
6 Lectrs †, 1 Sr Demr, 6 Sp Demrs		(Sugar Technol) Sr Lectr.	
Biochemistry		Sutherland, M. D, MSc <i>N Z</i> , DSc,	
	Prof	FRACI	Sr Lectr
Hines, H J. G., BSc <i>Lond</i>	Assoc Prof	Wood, H L, MSc <i>Adel.</i> , BSc PhD,	
		FRACI	(Agnic) Sr Lectr.
		Grigg, E. C M, MSc	Lectr

* Member of the Association of Universities of the British Commonwealth

Alexander, D. M., MSc PhD *N Z* Lectr
 Hall, J. R., DPhil *Oxon*, MSc Lectr
 White, E. T., BScApp (on leave) Lectr
 Wells, P. R., BSc PhD *Lond*, FACS Lectr
 Carman, R. M., MSc PhD *N Z* Lectr
 Broomhead, J. A., MSc Syd Lectr
 Thompson, M. J., BSc PhD Lectr
 Barnes, G. T., BSc PhD (Phys. C) Lectr
 3 Sr. Demrs., 4 Demrs., 10 Demrs. †, 10 Teaching Fellows

Classics

Cooper, C. G., MA *St And* Prof
 Pryor, A. D., MA *Camb* Sr Lectr
 Ashworth, W. D., MA *St And*, BA *Oxon*. Lectr
 McKay, R. J., MA *Melb*, BA *Camb* Lectr
 Barrett, D. S., MA Lectr
 Howes, J. R., BA *Melb* & *Oxon* Lectr
 1 Lectr †

Dentistry

Lumb, S. F., DDSc *Melb*, FDSRCS, FDSRCSed Prof
 Sagar, J. A., DDS *Tor*, BDS Sc Lectr
 Pearn, J. O., MDSc Reader
 Ramsay, E. D., MDSc Reader
 Kruger, B. J., DDS *Northwestern*, DDSc Reader
 McDougall, W. A., MDSc BSc Sr Lectr
 Martin, K. H., MDSc Sr Lectr
 Junner, B. A., MDSc Lectr
 Grimes, W. D., MDSc Lectr
 Roper, M. G., MDSc Lectr
 Winzar, C. F., MDSc Lectr
 8 Lectrs †, 13 Temp Lectrs., 1 Demr †

Divinity

12 Lectrs. †

Economics

Gifford, J. K., MA *Glas* Prof
 Lane, W. R., MA *Camb*, MCom Sr. Lectr
 Gynther, R. S., AAUQ, FASA, FCAA (Accty) Sr. Lectr
 Reitsma, A. J., DEcon *Rotterdam* Sr. Lectr
 Palmer, G. R., BSc *Melb*, BEc *Syd* Sr. Lectr
 Price, G., BCom Lectr
 Beck, G. W., BCom AAUQ (Accty) Lectr
 Harris, C. P., MEcon BCom AAUQ Lectr
 Hughes, Mrs. H., MA *Melb*, PhD *Lond*. Lectr
 Hajek, E. J., JUDr *Prague* Lectr
 Gunton, R. J., BEcon Lectr
 Sanderson, L. R., AAUQ (Accty) Temp Lectr
 11 Lectrs. †, 3 Jr Lectrs., 1 Grad Asst.

Education

Bassett, G. W., MA DipEd *Syd*, PhD *Lond* Prof.
 Henderson, N. K., BA MEd *Melb*, PhD *Lond* Reader
 Middleton, I. G., PhD *Lond*, BCom BEd Sr. Lectr
 Lang, R. C., BSc BEd BA *W Aust*. Sr. Lectr
 McLeod, J., BSc *Manc*, EdB *St And* Sr. Lectr
 Smith, Hazel M., DipSocStud *Syd*, BCom (Soc. Stud.) Sr. Lectr

Poulter, M. W., BA BCom DipEd *Tas*, MA PhD *Col* Sr. Lectr
 Cochran, R. G., BA MEd Lectr
 Drinkwater, D. J., MA *Syd* & *Lond* Lectr
 Halliwell, L. M., BA DipSocStud DipEd *Melb* Lectr
 Bowker, E., MA DipEd *Lav* Lectr
 Evans, G. T., BSc BEd DipEd Lectr
 Watts, Betty H., BA BEd Lectr.
 McRae, Jean I., BA DipSocStud *Syd*. (Soc Stud.) Lectr
 Lawry, J. R., BA DipEd *Melb* Lectr
 Bonnell, Valma M., MA Lectr
 Kuystra, H. E., CanDis *Amst* Lectr
 Wise, J. H., BSc Lectr
 26 Lectrs †, 1 Half-time Soc Worker, 1 Soc Worker, 1 Sr. Demr., 3 Demrs., 1 Jr. Lectr, 3 Res Fellows

Engineering, Civil

Lavery, J. H., BSc *Oxon*, ME, MIEAust Prof.
 McKay, G. R., BEng PhD *Liv*, MIEAust Reader
 Stoney, A. J. McC., BEE *Melb*. Sr. Lectr
 O'Connor, C., BE Sr. Lectr
 Burkbeck, G. H. M., DIC, BE Sr. Lectr
 Apelt, C. J., DPhil *Oxon*, BE Sr. Lectr
 Mapp, W. A., BE Lectr
 Meek, J. L., MS *Cahf*, BE BSc Lectr
 Gourlay, M. R., BSc BE *Syd* Lectr
 Nilsson, R. D., BE BSc Lectr
 11 Lectrs †, 2 Demrs †

Engineering, Electrical

Pientice, S. A., MEE BSc *Melb*, MIEAust Prof.
 Parnell, T. M., PhD *Lond*, BSc BE Sr. Lectr
 Jordan, T. A., BSc(Eng) *Lond* Lectr
 Magee, B. I., BE Lectr
 Fraser, S. G., BE Lectr
 10 Lectrs †, 1 Testing Officer, 1 Sr. Demr., 3 Demrs., 18 Demrs. †

Engineering, Mechanical

Shaw, M., ME *Sheff*, BMEchE *Melb*, MIMechE Prof.
 Leahy, T. F., BE DipMEE (on leave) Sr. Lectr.
 Sheridan, N. R., MSc *Birm.*, BE DipMEE Sr. Lectr
 Krok, T. V., BE *Syd* Sr. Lectr
 Clark, D. J., BE DipMEE Sr. Lectr
 Gilmour, C., BSc BE Lectr.
 Hooker, R. J., BE *Adel* Lectr
 Foster, G. A., MA *Camb* Lectr
 Juler, P. A., BMEchE *Melb*. Lectr
 Bullock, K. J., BE PhD Lectr.
 4 Lectrs †, 2 Demrs., 1 Res Asst

Engineering, Mining and Metallurgical

White, F. T. M., BMEtE *Melb*, FIM, FGS Prof.
 Gregory, C. E., BE BA *Adel*, ME BEcon Reader
 Waring, J., BScTech *Manc.*, MSMetEng Wrs, FIM Sr. Lectr.

Hogan, L. McN, MSc *Melb* Sr Lectr
 Bull, W. R., BScEng DipMD&CP *Leeds* Lectr
 Russell, B., BEMet *N Z*, PhD *Burn* Lectr
 Adams, P. L., BSc *Burn* Lectr
 Biewer, C. W., MSc *Melb* Lectr
 1 Sr Res Officer, 1 Res Officer, 3 Lectrs †,
 2 Teaching Fellows, 9 Demrs †

Chemical Engineering

Brooks, P. C., MScApp IndChem
 SMChemEng *M I T*, FRACI Sr Lectr
 Howarth, W. J., BSc *N S W* Lectr.

English Language and Literature

Cawley, A. C., MA PhD *Lond* Prof
 Thomson, A. K., MA Prof
 Cochrane, G. R., MA *Melb*, DipdePhon
 L&L *Paris* (Phonetics) Sr Lectr.
 Flint, E. H., MA Sr Lectr.
 Hadgraft, C. H., BEd *Melb*, MA DipEd Sr Lectr

Hamilton, K. G., BEd MA Sr Lectr
 Hanger, Eunice, MA Lectr.
 Wilson, R. B. J., MA DipEd *Syd* Lectr
 Gerson, S. H., BA *Lond* Lectr
 Edwards, P. D., PhD *Lond*, MA Lectr
 Harris, J. W., MA *Camb* Lectr.
 5 Jr Lectrs, 1 Res. Fellow, 1 Demr †

Entomology

Perkins, F. A., BAgSci *Syd* Reader
 Woodward, T. E., DIC, MSc *N Z*, PhD Sr Lectr
 Exley, Elizabeth M., DIC, MSc Lectr
 1 Res Officer, 1 Lectr †, 1 Demr, 3 Teaching Fellows

French

Mahoney, J. C., BLitt MA *Oxon.*, BA Prof.
 Denat, A. H. M., L&L DipId'ÉtSup *Toulouse* Sr Lectr
 Campbell-Brown, Kathleen, MA
 (on leave) Sr Lectr.
 McArthur, D. G. M., MA *N Z*, DU^{Paris} Lectr.
 McWatters, K. G., BA DipEd Lectr
 1 Lectr †

Geography

Greenwood, R. H., MA *Camb* Prof.
 Duncan, C., MA *N Z*, PhD *Ohio State*
 (on leave) Sr Lectr.
 Dick, R. S., MSc *N Z* Sr Lectr
 Perry, T. M., BA DipEd *Syd*, PhD *A N U* Lectr.
 Lloyd, P. E., BA *Bum* Lectr.
 Tugby, Mrs E. E., MSc *Syd* Lectr.
 1 Lectr †, 2 Demrs.

Geology and Mineralogy

Wilson, A. F., MSc *Adel*, DSc *W. Aust.*,
 FGS (on leave) Prof
 Hill, Dorothy, PhD *Camb*, DSc, FAA,
 FGS Res Prof.

Jones, O. A., MSc *Camb*, DSc Reader
 Bryan, W. B., BA *Dartmouth*, MA
 PhD *Wisc* Sr Lectr
 Kretz, R., MSc PhD Sr Lectr
 Robinson, E. V., BA Lectr
 Webb, J. P., PhD *St Louis*, BSc Lectr.
 Stevens, N. C., BSc PhD *Syd* (on leave) Lectr
 Maxwell, W. G. H., DIC, BSc PhD,
 FGS Lectr
 Lectr

5 Lectrs †, 2 Demrs, 2 Demrs †, 8 Teaching
 Fellows

German

Leopold, K., MA *Syd*, PhD Reader
 Bonnin, G. M., BA *Reed*, MA PhD *Stan* Sr Lectr
 Powell, A. W., BA Lectr
 McInnes, M., MA DipEd *Edin* Lectr
 1 Lectr.†

History and Political Science

Greenwood, G., MA *Syd*, PhD *Lond*
 McCaughey Prof
 Neale, R. G., MA DipEd *Melb* Reader
 Schaffer, B. B., BScEcon PhD *Lond* Reader
 Rawdon, D. W., MA PhD *Melb* Reader
 Morrison, A. A., MA Sr Lectr
 Joyce, R. B., BA LLB *Syd*, MLitt *Camb* Sr Lectr
 Truman, T. C., BA *Melb*, MA Sr Lectr.
 Singhal, D. P., BA *Pary*, MA *Pary* (I),
 PhD *Lond* Sr Lectr
 Grimshaw, C., BA DipEd *Syd*, MA Sr Lectr.
 Taring, P. N., MA PhD *Camb* Lectr
 Knight, K. W., MEd *Syd* Lectr
 Gunson, W. N., MA *Melb.*, PhD *A N U* Lectr
 Stoodley, June, BA Lectr
 Brett, C. B., BA *Much* Lectr
 Staveley, R. W., BEd *Syd*, MA PhD *Chic*
 Richardson, J. P., BSc(Econ) *Lond* Sr Lectr
 1 Jr Lectr, 1 Res Fellow

Journalism

20 Lectrs †

Law

Harrison, W. N. L., BA *Oxon.* & *Q'ld.*,
 LL.M. Garrick Prof
 (Public L.) Prof.
 Sykes, E. I., LL.D. *Melb*, BA Reader
 Ryan, K. W., PhD *Camb.*, BA LLB Sr Lectr
 Morris, J. M., MB BS LLB Sr Lectr
 Lumb, R. D., LL.M. *Melb.*, DPhil *Oxon.* Lectr
 McPherson, B. H., BA *Natal* & *Camb*,
 LLB *Camb* Lectr.
 4 Lectrs †

Mathematics

Davis, C. S., DFC, MSc *Syd*, PhD *Camb*. Prof.
 Mahony, J. J., BA BSc *Melb*, PhD *Manc*
 (Appl. M.) Prof

McCarthy, J P, MA	Assoc Prof	Simpson, K E., BA DipPhysEd AEd	Asst Dir
Finucan, H M, MA Oxon., BA	Reader	4 Lectrs †, 1 Instr	
	Reader		
Morrin, G R, BSc Syd, BA PhD Camb	Sr Lectr	Physics	
Powell, H M, MA BSc	Sr Lectr	Webster, H C., CMG, PhD Camb,	
O'Donnell, M P, MSc	St Lectr	DSc Tas, FIP	Prof
Steller, E T., MSc DrMath Ley	Lectr	Reimann, A L, PhD Berl, DSc Adel.,	
Howard, L E, BSc	Lectr	FIP	Rcs Prof
Popple, Myra A., BA	Lectr	Robertson, D F, MSc	Reader
Kelly, L, OBE, BSc Lond, MIMechE	Lectr.	Parsons, R W, BE Adel, DPhil Oxon,	Reader
Cvetkov, B	Lectr	FIP	
Woolcock, W S, BSc	Lectr	McNicol, R W E, MSc Camb & Q'ld,	
2 Lectrs †, 4 Jr Lectrs, 2 Demrs †	Lectr	PhD	Sr Lectr
		Crouchley, J, BSc W Aust, MSc Adel	
Medicine, see below		Thomas, J A., BSc Adel, PhD	Sr Lectr
		Noon, J H., PhD Roch, MSc	Sr Lectr.
Metallurgy, see Engin., Mining and Metallurgical		Mugglestone, D, BSc St.And, PhD Lond	
			Sr Lectr
Mineralogy, see Geol.		Lasich, W B, MSc PhD Melb	Sr Lectr
		Burke, M J., BSc Syd, MSc	Lectr
Modern Languages, see Inst of Mod Langs, below		Singleton, D G, MSc	Lectr
		Stevens, K. A., BSc	Lectr.
		Taylor, R G S, BA MSc	Lectr
Music		Perrett, B J, BSc Lond	Lectr
Brandon, H E, FTCL	Sr Lectr	Goodwin, G L, BA MSc Adel	Lectr
Spearritt, G D., MusBac Melb, BA	Lectr	McGilvray, J P, BSc	Lectr
Thornton, D W, BSc W Aust,		Bowman, G G, MSc PhD	Lectr
BMus Lond	Temp Lectr	Mackay, W A, MSc PhD N Z	Lectr
		Mainstone, J S, BSc PhD Adel	Lectr
		McInnes, B A, BSc Syd	Lectr
Parasitology			Lectr
Sprent, J. F. A., PhD DSc Lond,		3 Sr. Demrs, 9 Demrs, 11 Half-time Demrs,	
FRCVS	Prof.	5 Teaching Fellows	
Pearson, J C., MA PhD Tor.	Sr Lectr	Physiology	
Hayte, H M D, BSc Edin., PhD Camb	Lectr	Hawker, R W, BS Syd, MD Syd & Q'ld,	
4 Sr. Res Fellows, 4 Lectrs †		PhD, MRACP	Prof
Veterinary Anatomy		Budtz-Olsen, O E, ChB MD Cape T.	Prof
May, N D S., MSc QDS	Sr Lectr	Ladd, R. J., BVSc BSc Syd, PhD Lond	Reader
Tucker, R, BVSc Warsaw,		Kratzang, C C, MSc Syd, PhD Lond	Sr Lectr
DVMHabit Munich	Lectr	Blackshaw, A W, DVSc Syd	Sr Lectr
Watson, J W, BVSc QDAH	Lectr	Cross, R B, PhD Edin, BSc MB BS	St Lectr.
1 Sr. Res Fellow, 1 Demr †		Lipton, A, BSc PhD Lond	St Lectr
			Sr Lectr
Pharmacy		Klemm, G. H, BSc	Lectr.
Dare, J G, PhD Leeds	Reader	Whyte, J M, BSc Melb	Lectr.
Williams, C H., BSc DipPharm Syd,		Harvey, Nancy E, MSc	Lectr
MSc	Lectr	Booth, Mollie, MB BS Syd, PhD Lond	Lectr.
		1 Sr Demr., 9 Demrs., 4 Res Assts	
Philosophy		Political Science, see Hist and Pol. Sci	
James, G, BD Melb, MA	Sr Lectr	Psychology	
Valhs, V. T., PhD Lond., MA	(on leave) Sr Lectr	McElwain, D W, MA N Z & Melb,	
Overend, R. G., MA Edin	Lectr.	PhD Lond, FRP&S	Prof
2 Lectrs †		Naylor, G F K, MSc MA DipEd Syd,	
		PhD, FRP&S	Reader
Physical Education		Harwood, Elsie, MA PhD	Sr Lectr.
Burge, I. C., BPhysEd Springfield, BCom		Keats, J A, BSc Adel, BA Melb., AM	
BA PhD	Dir	PhD Prim	Sr. Lectr.
		Mortimer Tanner, R S, BA	Lectr

Tugby, D J, BSc *Syd*, BA *Melb*,
PhD *A N U*

Enticknap, L E, MA

Damm, J T, BA *BEd*

13 Lectrs †, 1 Demr, 3 Half-time Demrs,
1 Res Asst

Surveying

Buley, J V, BSc *Melb*

Miller, P C, BSurv

Harley, I A, DipIPhotogrammetry *U C*,
Lond, BSurv

5 Lectrs †

Veterinary Clinical Studies

Burns, R H G, BVSc *Syd*

Osborne, H G, BVSc *Syd*

English, P B, MVSc

Berriman, J A, BVSc *Syd*

Grono, L R, BVSc *Syd*

7 Lectrs †, 1 Res Officer, 1 Teaching Fellow

Veterinary Preventive Medicine

Francis, J, DSc *Lond*

Winter, H, DMedVet *Vienna*

Seawright, A A, BVSc BSc

Olds, R J, PhD *Camb*, DipBact *Mane*,
BVSc

4 Lectrs †, 1 Sr Res Fellow, 6 Demrs †,
1 Res Fellow

Zoology

Stephenson, W, BSc PhD *Durh*

Bleakly, M C, MSc *N Z*, DPhil *Oxon*

Endean, R, MSc *Syd*, PhD

Mather, W B, BSc *Tas*, MSc *Melb*,
PhD

Hoyte, H M D, PhD

Dall, W, MSc

Bayly, I. A. E, MSc *N Z*

Stenhouse, D, MA BSc *N Z*

Lee, A K, BSc *W Aust*

2 Sr Demrs, 6 Demrs, 1 Demr †, 3 Teaching
Fellows, 1 Res Asst.

MEDICINE

Anatomy

Hickey, M F, MA MB BS

Arnold, M, MB BCh *Rand*, FRCSEd

Mitchell, Mrs R. E., BMedScAnat

MB ChB *N Z*

1 Lectr †, 6 Temp Lectrs, 1 Sr. Demr

Child Health

Rendle-Short, T J, MA BChir MD *Camb*,
MRCP

1 Teaching Registrar

Medical Psychology, Psychiatry and Mental Hygiene

Bostock, J, MB BS DPM *Lond*, FRACP

1 Res Fellow, 1 Res Asst

Medicine

Tyrer, J W H, BS MD *Syd*, MRCP,

FRACP

Lloyd, H M, BCh MA DM *Oxon*,

PhD *Lond*, MRCP (Cln) Reader
(Cln) Sr Lectr

Sanders, Dorothy F, MSc *W Aust*,

PhD *Lond* Sr Lectr

Emmerson, B T, MB BS, MRACP Sr Lectr

Jackson, D C, DSC, MB BS *Melb*

(Paediatrics) Half-time Sr Lectr

Hamilton, W J, MB BS Half-time Sr Lectr

13 Sp Lectrs, 13 Cln Lectrs, 43 Asst

Clin Lectrs., 18 Tutors, 4 Teaching

Registrars, 1 Officer-in-Charge Clin

Lab., 1 Grad Demr, 1 Res Asst

Microbiology

Skerman, V B. D, BAgSc DSc Prof

(on leave) Reader

Back, K J. C, MSc *Syd*, PhD Sr Lectr

Halliday, W J, BSc *Melb*, PhD *Wus* Sr Lectr

Atherton, J G, BScApp(MedSc) PhD Sr Lectr

Skyring, G, BSc Temp Lectr

1 Sr Demr, 1 Demr, 5 Demrs †, 6 Teaching

Fellows, 3 Res. Assts

Obstetrics and Gynaecology

Shedden Adam, G. W, MB BS *Syd*,

FRCSEd, FRCOG Half-time Prof

Ealer, E J, MB BS Half-time Sr Lectr

3 Teaching Registrars, 5 Sp. Lectrs, 2 Cln.

Lectrs., 6 Asst. Clin Lectrs, 2 Tutors

Pathology

Canny, A J, BSc MB BS *Syd*, FRACP Prof

Inglis, J A, MB BS *Syd*, MRCP

(Cln P) Reader

Vickers, T H, MB *Syd* Sr Lectr

Halliday, Mrs J. W, PhD *Wus*, BSc

Half-time Lectr.

Lectr

Lectr

1 Lectr †, 1 Tutor†, 1 Demr, 4 Demrs.†

Physiotherapy and Occupational Therapy

Philcox, Mrs Sara (Occupnl Therapy) Lectr.

Geason, U. J (Occupnl Therapy) Lectr.

Forster, A. Louisa (Physiotherapy) Lectr.

Fyfe, Margaret C, Teacher's Cert *Lond*.

(Physiotherapy) Lectr

23 Lectrs †, 1 Tutor, 1 Sr Demr, 4 Demrs.

Psychiatry, see Med. Psychol.

Social and Preventive Medicine

Gordon, D., MB BS Prof
 Silverstone, H., BA N Z., PhD Edn Sr Lectr
 Williams, M., MB BS Half-time Lectr
 24 Lectrs 7, 1 Demr.

Surgery

Sutton, N G., MB ChM Syd, FRCSEd, Prof
 FRACS
 Mitchell, R M., BMedSc MB ChM N Z., Reader
 FRCS, FRACS
 Friend, W D., MB BS, FRCS, FRACS
 Mowat, J. K., MB BS Syd, MS Half-time Sr Lectr
 Leaming, D. B., MB BS Durh, FRCS Sr Lectr
 12 Sp Lectrs., 7 Clin Lectrs, 39 Asst
 Clin Lectrs, 8 Tutors, 3 Teaching
 Registrars

EXTERNAL STUDIES

Olsen, F. J., MEd Melb, BSc PhD (on leave) Dir
 Goodman, R D., BA, BEd Melb., (Educn) Sr Lectr
 PhD A N U (Econ) Lectr
 Elliott, C J., BSc (Econ) S'ton. (Econ) Lectr
 McFarlane, B. J., BEd Syd (Econ) Lectr
 Genn, J M., BSc BA (Educn) Lectr
 Needham, Rev G., MA Lond, ThL (Educn) Lectr
 Glad, A H., BA (Educn) Lectr
 Goodwin, K. L., BA DipEd Syd (Engl) Lectr
 Sykes, Alrene M., BA Syd. (Engl) Lectr
 White, Olive N., BA (French) Lectr

Corfield, Mrs. N C, BA (Hist) Lectr
 Dignan, D K., BA DipEd (Hist) Lectr
 Lavery, J R., BA (Hist) Lectr
 Ruddell, Caroline M., BA (Latin) Lectr
 Capell, K., BSc (Maths) Lectr
 Hardy, G J H., BSc (Maths) Temp Lectr
 Rinaldi, F., MA W Aust. (Philos) Lectr
 Thornton, N S., BA Syd (Pol Sci) Lectr
 2 Tutors

INSTITUTE OF MODERN LANGUAGES

Patson, N. (Arabic) Tutor
 Mitchell, W. F. (Chinese) Tutor
 Panchenko, A. (Chinese) Tutor
 Goossens, W L J P, BA (Dutch) Tutor
 Beven, R A, BA (French) Tutor
 Bowker, Mrs E., BA Lso (French) Tutor
 Campbell-Brown, Kathleen, MA (French) Tutor
 Cochrane, G R., MA Melb, Dipde Phon
 LèsL Paris (French) Tutor
 Bonnin, G M., BA Reed, MA PhD Stan (German) Tutor
 Bowker, E., MA DipEd Lso (German) Tutor
 Powell, A. W, BA (German) Tutor
 Kothari, N M., BSc Bom. (Hindi) Tutor
 McDonnell, R E. (Italian) Tutor
 Rinaldi, F., MA W Aust. (Italian) Tutor
 Mathieson, K M. (Japanese) Tutor
 Jossiffe, R. J. (Malay) Tutor
 Patson, N. (Mod Greek) Tutor
 Perdena, Irene I., BA DipEd (Polish) Tutor
 Pappadopoulos, Mrs E., BA DipEd (Russian) Tutor
 Young, Mrs S. (Spanish) Tutor
 Gerson, S H., BA Lond. (Swedish) Tutor

ADMINISTRATIVE AND OTHER STAFF

Dep Registrar S A. Rayner, MEd Melb,
 EdD Ill, MA Bursar L N Livingston, FASA
 Student Counsellor: H. W Theile, PhD Lond,
 MA Manager of Univ Press F W Thompson,
 MA Mich State. Univ Architect
 Registrars: H B Green, ... Dep Librarian:
 D B Scott, BA Asst Student Counsellor
 C Williams, BA BEd Student Health
 Officer† M Williams, MB BS

PRINCIPALS OF RESIDENTIAL COLLEGES Cromwell (Congregational): Rev G L Lockley,

MA Syd, Duchesne (RC Women) Joan Percy-Dove, MA DipEd Syd, Emmanuel (Presb) Rev L J Douglas, BA BD Syd, King's (Methodist), master Rev I H Gummert, BD Melb Div Coll, ThD U T S (N Y), MA, St John's (C of E), warden Canon A L Sharwood, MA Melb, ThD A C T, DipTh Oson; St Leo's (RC), rector Rev Fr Johnston, MA N U I; Univ. of Queensland Union Coll (undenominational), hon warden Prof M. F Hickey, MA MB BS, Women's (undenominational) Mary C Nixon, MA Syd

ASSOCIATED COLLEGE

UNIVERSITY COLLEGE OF TOWNSVILLE, P O Box 499, Townsville, Queensland (tel Townsville 92193) Establd. 1961. Warden—F J Olsen, MEd Melb, BSc PhD Librarian—, Sr Admin Officer—J W Marshall, Lectrs—BOT, Margaret M Mackay, BSc St And, MSc Syd CHEM, J T. Baker, MSc EDUCN, E Scott, BA Syd ENGIN., K P Stark, BE ENGL,

R S Smith, BA FRENCH, R K Moss, BA DipEd Melb GEOL, P J Stephenson, DIC, PhD Lond, BSc. HIST, I. N. Moles, MA MATHS, B. B Newman, BSc DipEd PHYS, E H Carman, MSc PhD Melb ZOOL, R P Kenny, BSc W Aust 1 Sr Dcmr., 2 Dcmrs
 Student Residences Men Stuart House, Stuart Drive, Wulguru, Townsville (tel Stuart

321), £A5 10s p.w. students, £A7 p.w. graduates, 42 students, Principal—I N Moles, MA Women Duncragan, Melton Hill, Townsville (tel. Townsville 6247), £A5 10s p.w. students,

£A7 p.w. graduates, 18 students, Principal—Margaret M Mackay, BSc St And, MSc Syd. See also under 'General Information', below.

GENERAL INFORMATION

The univ was established by an act of the state legislature in 1909 and teaching in the facs of arts, sci and engin commenced in 1911. Other facs establd were comm 1926; agric 1926, law 1930, dent 1935, vet sci 1936, med 1936; archit 1948; educn 1948. Provision for external students has been made since 1911.

The move from the temp bldgs to the permanent site at St Lucia was planned in 1936 but as a result of war-time delays the transfer began only in 1949.

Enrolments first reached the following levels in the years indicated: 1000 (1934), 2000 (1945), 3000 (1946), 4000 (1948), 5000 (1956), 6000 (1958), 7000 (1959), 8000 (1960), 9000 (1961).

In 1961 the Univ Coll of Townsville was established. In 1962 it will provide 1st-yr classes in all facs except archit, and 2nd-yr classes in the facs of arts, sci and engin. It is expected that chem, educn, Engl., hist, pure and appl maths., phys and zool. will be taught to 2nd-yr level. See also above.

The univ serves the state of Q'ld (pop. 1,464,835, area 667,000 sq mls) and encls external students from adjacent Commonwealth territories.

Special strengths in engin, vet sci. and agric sci have been developed through close connexion with and support from indust.

Current devels. incl the installation of 2 electron microscopes, a digital computer centre is soon to be establd.

In 1961 a programme of in-service training for academic staff will be held, incl a course in teaching for 140 demrs and 11 lectrs, a conference on teaching for 50 new lectrs, and a seminar for sr staff members.

CONSTITUTION The governing body, the senate, consists of 27 members, 14 apptd by the state govt, 9 elected by the univ council (consisting of all grads, all teaching staff, benefactors, etc.), 3 *ex-officio* members (the dir-general of educn, vice-chancellor and the pres of the prof bd) and a rep. of the staff assocn. A full-time vice-chancellor is the exec officer of the senate and the chief admin officer of the univ.

INCOME (1961) £A2,728,507 (state govt., £A1,091,000, Commonwealth govt., £A920,757; fees, £A612,400, other, £A104,350).

FACULTIES AND DEANS (1961) *Agric*, Prof L. J. H. Teakle, *archit*, Prof R. P. Cummings, *arts*, Prof R. H. Greenwood (geog), *comm & econ*, Prof J. K. Gifford (econ.), *dent.*, Prof S. F. Lumb, *educn.*, Prof G. W. Dussett, *engin.*, Prof S. A. Prentice (electr engin); *law*, Prof W. N. L. Harrison; *med*, Prof N. G. Sutton

(surg), *sci.*, Prof T. G. H. Jones (chem), *vet sci.*, Prof J. F. A. Sprent (parasitol).

UNIVERSITY PRECINCT The St Lucia site of 242 acres lies in a pocket of the river some 5 mls from the centre of Brisbane (pop 578,000). The main bldgs of the facs of arts, sci, comm & econ, agric, law, vet sci, educn, and archit, are on an elevated ridge. On the river flats are four ovals, 16 tennis courts, boat shed and other sporting facilities. Other bldgs house admin, library, electr. engin, students' union, civil engin, surv, phys educn. Extensions and new bldgs for chem, zool, agric, civil engin and phys educn were brought into use in 1960-61. The vet sci. sch. moved into its new bldg in 1961 and stage I of an extensive group of new bldgs for the fac of engin is well advanced. Further bldgs for facs and depts now at other sites will be built at St Lucia.

LOCATION OF OUTSIDE DEPTS Med sch., Herston Rd, Herston, Brisbane, exper farm (Moggill), Moggill, Brisbane; exper farm (Redland Bay), Redland Bay; exper mine, Indooroopilly, Brisbane, remedial educn centre, depts. of mech engin, mining and metall. engin, bot, entomol, pharm., med psychol and music, George St, Brisbane, dent coll., Turbot St, Brisbane, dept of physiol, William St, Brisbane.

LIBRARY 228,000 vols incl Fryer libr (Aust.) 5100 vols, Thatcher libr (ext studies) 18,000 vols, Darnell Pacific Inst. collection (hist and culture of countries bordering Pacific ocean) 5200 vols, and deptl. libr., incl. musical scores and gramophone records.

LABORATORIES Scismol room and vault, radio res, radon, X-ray, hydraulics, high voltage engin structures, soils and concrete, and normal deptl. labs.

FIELD STATIONS Redland Bay exper farm (vegetable crops, sugar cane and demonstrations, 14 acres), Moggill exper. farm (100 mixed cattle grazing 400 acres of improved pastures, and cows, sheep, horses, pigs and poultry on 120 acres of which 96 acres improved pastures); univ. lab for marine and field studies, Dunwich, Stradbroke Island; facilities for geol, bot and zool res. available at marine res. stn., Heron Island, Great Barrier Reef.

MUSEUMS Anthropol. museum contains a high-quality collection of material from Australian aborigines and from New Guinea, geol museum contains teaching and res material with sp collections in paleozoic corals and permian fossils; museum of pathol has collection of specimens

used for undergrad and postgrad teaching, teaching and hist museums in dent, zool, soc and prev med, surg and other depts

DARNELL ART COLLECTION About 250 paintings and other works of art, mostly by Australian artists. Periodical exhibns of the collection held in Darnell Art Gallery. Darnell Library of the Fine Arts, reference books and art lit, 550 vols

TEACHING HOSPITALS (and average teaching beds) Brisbane (900), Brisbane Children's (200), Brisbane Women's (160), Princess Alexandra (550), Mater Misericordiae (250), Chemsides Chest Clinic (180), Goodna Mental H

ADMISSION See Appendix III. Enrolments close Jan for new students. Overseas students should apply in Dec and forward full credentials

FIRST DEGREES. (* indicates degree can be completed wholly or in part by evg study) 3 yrs —BA*, BCom*, BEcon*, BPharm*, BSoc*, 4 yrs —BA hons, BCom hons, BEcon hons, BSc hons, BAgSci, BScApp (indust chem or geol), BPhy, BE (except chem), BSocSci, BSurv, 5 yrs —BVSc, LLB*, BE(chem), BScFor, BDSoc, 6 yrs —MB BS, BArch*

BA hons may be taken in classics, econ, Engl, French, geog, German, hist, Latin, maths, philos., pol sci, psychol.

BSc hons may be taken in bacteriol, biochem, bot, chem, entomol, geol, maths, metall, phys, physiol, psychol, zool

BCom hons may be taken in accty., econ stats, geog., hist, pol sci, psychol, pub admin

BEcon hons may be taken in accty., econ., econ stats., geog, hist, maths, pol sci, pub admin

HIGHER DEGREES Open to grads BED, BD Open to bachelors of 2 yrs' standing of this or other approved univs, MA, MCom, MEcon, MSc, MDSc, MScApp, LLM, MArch, MEd, MS, MTh, MEngSc, of 3 yrs' standing MScFor, ME, MVSc, MAgrSci, MD, of 4 yrs' standing, DDSc, of 5 yrs' standing DAgSci, DSc, DD, DVSc, DScFor, of 7 yrs' standing, DLitt, DEcon, DE. Open to masters of 3 yrs' standing DE, of 5 yrs' standing LLD Standing required before admission to the PhD course varies according to fac in which prior degree taken. PhD can be awarded in all facs Master's degrees and PhD degrees may be taken pt-time. These higher degrees are obtained by exam and/or thesis, but in some cases certain specified outside experience is required in advn

HONORARY DEGREES All first and higher degrees may be awarded as hon degrees

EVENING AND EXTERNAL STUDENTS In the courses available to them, evg and external students are permitted to spread their studies over a longer period than day students and pay a proportionate amount of fees each yr. Degrees available to ext students incl BA, BCom, BEcon, LLB, BEd, MA, MCom, MEcon, LLM, MEd. Degrees available to evg students incl BA, BCom, BEcon, LLB, BEd, MEd. Students for higher

degrees must have completed hons course or equivalent (normally as internal students). The first 3 yrs of the BE course may be completed by pt-time study. External enrolments are accepted from students resident in Qld, the Northern Territory and the Territory of Papua & New Guinea, grads of univ. of Qld and servicemen living elsewhere than in a univ city, holders of Colombo Plan Australian correspondence scholps in S-E Asia, 25 other appr students from S-E Asia

DIPLOMAS Comm (on unit basis, approx 3 yrs), journalism, approx. 4 yrs; physiotherapy, occupnl therapy, phys educn, soc studies, 3 yrs, pub admin, 2 to 3 yrs; music, div, 2 yrs, educn, educnl psychol, sugar technol., sugar sci, 1 yr postgrad., psychol med, postgrad, ophthalmol, postgrad (at present the univ acts only as an examining body for this dipl and does not provide a regular course of instruct)

CERTIFICATES (pt-time, evg and ext) educn. (AEd) (on subject basis, approx 3 yrs), accty (AAUQ), 3 yrs plus 2 yrs' experience (provisional cert awarded after completion of academic requirements), teaching and trg of sub-normal children, 1 yr for trained teachers (CTTSC).

RESEARCH Facilities available in all depts for postgrad study and res. Postgrad students may be admitted to attend courses of tuition or to pursue res not leading to a qualif of the univ. Arrangements should be made with hd of dept. Prelim enquiries about fees, etc, should be addressed to registrar. Annual res. report containing summary of work on each project is available free on request. Res grant £A88,173 from univ funds plus outside sources

The univ has a mod punch-card installation which is available at sp times for res purposes

STUDY LEAVE. Leave for 12 mos on full pay may be granted after 3 yrs' service (readers and above) or 6 yrs' service (sr lectrs and lectrs.) An allowance based on number of dependants may be made

FEES Degrees: dent, engin, med, vet sci, £A144 p a, agric, appl geol, archit, arts (final hons), educn, for., pharm, physiotherapy, sci, surv, £A120 p a, aits, comm, econ, law, soc studies, £A105 p a, div, £A75 p a

ACADEMIC YEAR March to Nov 3 terms of 12, 9, 9 wks

ADULT EDUCATION Public lectures cttee organizes lectures in Brisbane and country areas. Inst of Mod Langs organizes courses and conducts exams in mod foreign langs for persons of any age not served by sec schs or univ. Evg classes at elem, inter and advanced levels in 14 langs conducted by tutors apptd by the univ. No previous knowledge of lang to be studied required. Advanced courses reach standard of univ sr pub exam and a pass in the advanced level exam in German, French or Italian is accepted for adult matric. purposes

VACATION COURSES Phys educn for teachers, ext studies provides lectures for external students in certain subs Both during Aug vac

PRINCIPAL 'OPEN' ENTRANCE AWARDS Open scholps (for Q'ld residents), Commonwealth scholps (see pp 12-13) and fellowships to those bonded to serve govt or other employer

PRINCIPAL 'OPEN' POSTGRADUATE AWARDS Commonwealth postgraduate awards (see pp 12-13), Baillieu Res scholp, Fred Z Eager postgrad fellowship in vet sci, ICIANZ res fellowship, Monsanto res scholp, United Graziers' Asscn fellowship in vet sci, Zinc Corp scholp

GRADUATES' ASSOCIATIONS Men grads' asscn sec, H W O'Dea, 106 Laura St, Ekibin Women grads' asscn sec, Mls A N Joss, 19 Cawmore Rd, Galloway's Hill

STUDENT RESIDENCES *Men's colls* Cromwell Coll, Walcott St, St Lucia (tel. 7-1151), £A7 p w, 104 students, Emmanuel Coll, Upland Rd, St Lucia (tel. 7-1131), £A6 p w, 172, King's Coll, Upland Rd, St Lucia (tel. 7-1121), £A6 p w, 166, St John's Coll, College Rd, St Lucia (tel. 7-5739), £A6 10s p w, 110, St Leo's Coll, College Rd, St Lucia (tel. 7-5316), £A5 6s p w, 72, Union Coll, Wickham Tce, Brisbane (tel. 2-4992), £A5 15s p w, 110 *Women's colls*, Duchesne Coll, College Rd, St Lucia (tel. 7-6212), £A6 p w, 55, Women's Coll, College Rd, St Lucia (tel. 7-1171), £A6 16s p w, 73

UNIVERSITY MILITARY AND AIR FORMATIONS Q'ld Univ Regiment founded in 1948 Primarily officer and NCO trg unit Q'ld Univ Squadron founded in Nov 1950 Four flights, tech, med, equip and admin Cadets allotted according to faculty

STUDENT COUNSELLOR Educational and personal counselling is available from student counsellor who carries out appts bd functions

STUDENT HEALTH SERVICE Pt-time specialist available for consultation, student health officer apptd. by the Union maintains close liaison with student counsellor Service covers free anti-TB campaign, diagnostic health service, phys educn (compulsory for 1st yr med & physio, voluntary for others), vaccination for med, dent, vet sci, and bacteriol

STUDENT LOAN ASSISTANCE SCHEME Limited assistance is given by univ to able students suffering financial disability, by granting small

loans for purchase of books and apparatus and for living expenses, or permission to defer payment of fees

STUDENTS' UNION Administered by students, helps organize univ soc life, refectories, common rooms, publens and controls Union Coll, secures co-op of univ authorities, staff, grads and undergrads, publishes newspaper. Financed almost entirely by membership subs (compulsory for internal students) Permanent staff comprises sec, treasurer and exec officer, housed in new union bldg at St Lucia, opened in 1961

STUDENTS' SPORTS UNIONS Active sports unions provide for all major sporting activities and incl 23 men's clubs and 16 women's clubs Extensive grounds with pavilions are at the service of the sports unions

PUBLICATIONS Official—*Calendar*, £A1, postage 11d, *Report of the Senate*, free (annual), fac *Handbooks*, 3s.-4s, postage 8d, *Matriculation Manual*, 4s, postage 11d, *Music Exams Manual*, 2s, postage 5d, *Australian Journal of Pol. and Hist*, £A1 1s p a (2 issues), postage 4s 4d outside British Commonwealth, *Slow Learning Child*, 15s p a (3 issues), *Law Journal*, 7s 6d p a (1 issue), *Gazette* (academic news), 3d per copy (3 p a), fac and dept *Papers* in series, *Survey of Dent in Q'ld*, 1960, *Macassar Lectures*; *John Thomson Lectures*, *English Scottish and Australian Bank Ltd Res Lectures*; *The Univ and its Courses* (entrance requirements, courses of study and vocational opportunities), *Statistics*, *Exam Papers*, 3d per copy loose, 2s 6d-3s in booklet form covering 10 yrs Student—Students' Union. *Semper Floreat*, free fortnightly newspaper, *Whacko* (student songs), 2s 6d (annual), *Galmah* a (literary), 4s (irregular), *Orientation Handbook*, free (annual) Facs and socs *Tyephne* (mod fac), free (annual), *EUS Journal* (engin fac), free (annual), *Tangha* (dent fac), 5s. (annual), *Apyrtus* (vet sci fac), annual, *Makar* (Engl soc), 6d. per copy (monthly)

UNIVERSITY BOOKSHOP Branches at George St and St Lucia Under univ admin Specializes in students' text-books, apparatus, etc

UNIVERSITY OF QUEENSLAND PRESS Established in 1948 Publishes official publens and text-books, lab. manuals and other academic works approved by the publens. cttee, and maintains a bookshop for sale of text-books, stationery, apparatus and other student requisites

THE YEAR 1960

PRINCIPAL BENEFACTIONS Pub. appeal, £A140,000 for construction of Great Hall, donation, £A110,000 for purchase and installation of computer.

(Total value of all benefactions received £A408,920)

MAJOR BUILDING DEVELOPMENTS Bldgs completed sch of vet sci, sch of phys educn, students' union bldg.; biol scis (accomm for zool and agric depts); structures lab, soils and concrete lab; hydraulics lab; high voltage lab. *Approaching completion* admin block and

2 teaching blocks, Univ Coll. of Townsville, biochem, extension to chem, St Leo's Coll., extension to Women's Coll

N.W. DEPARTMENTS AND CHAIRS Dept and chair of child health; dept of pharm, dept of biochem

RESIGNATIONS Maureen R Arundel (classics), to postgrad study, Oxford, D G Bettison (educn), apptd sr res fellow, sch of soc scis, A N U, R E Dowling (hist & pol sci), apptd. lectr, sch of philos, N S W, I D. Hascock (zool), apptd sr lectr in biol, Monash; W C Hoffman (Eupl maths), ill health, C Howard (law), apptd sr lectr in law, Adel, R J H Morris (physiol), apptd res fellow in physiol, A N U, D J Stalley (econ), apptd. sr lectr in econ, N S W; B E Ware (electr engin), to post in indust, F A Wilson (Engl), apptd lectr in Engl, Buffalo, N Y

DEATHS R Gradwell (lectr in geol)

HONORARY DEGREES (conferred as part of univ jubilee celebrations) LLD—H E Col Sir Henry Abel Smith, gov of Q'd, visitor to univ, W G F R Nicolson, premier of Q'd; H G Watkin, dir-gen of educn, dep-chancellor of univ, Sir George Paton, vice-chancellor, Melb, chairman of Australian vice-chancellors' cttee; T G H Jones, prof of chem, Sir Alexander Reid, chancellor, W Aust DSc—Sir Robert Hall, econ adviser to H M govt, Sir Leslie Martin, chairman, Australian univs commission, Rt Hon Sir Earle Page, chancellor, N E., Lt.-Col Sir Charles Blackburn, chancellor, Syd.

Statistics

STUDENT NUMBERS, April 1961*

	Part-Time Part-Time		
	Full-Time	Internal	External
Men	3029	2055	2040
Women	838	912	540
Total	3867	2968	2580

*Includes students in Univ. Coll. of Townsville

§ Includes agric, 17, archt, 87, arts, 321; comm & econ, 553, dent, 4, educn, 649; engin, 46, law, 100; med, 11, phys educn, 70, sci, 603, vet sci, 5

|| Includes agric, 20, arts, 855, comm & econ, 585, dent, 3, educn, 957, engin, 4, law, 45; med, 1; sci, 101, vet sci., 9

Univ. of New South Wales contd from p. 72]

Statistics

STUDENT NUMBERS, 1961

(as at March 31, 1961)

	Part-Time	
	Full-Time	External
Men	2560	5080
Women	387	241
Total	2947	5321

Distribution by Faculties Appl. sci, 1139, archt, 593, arts, 574, comm, 1383, engin, 2823, med, 75; sci., 1447, bd of vocational studies, 234 Total 8268.

Distribution by Faculties Agric, 234, archt, 174, arts, 2128, comm & econ, 1330, dent, 242, educn., 1714, engin, 585, law, 101, med, 944, phys educn, 70, sci, 1562, vet sci, 241 Total 9415.

Included in the figures above are —

Higher degree students, 269

New admissions, 2684

Students in New Guinea, 263

Students from other countries, 466 (Countries from which largest numbers came: Fed. of Malaya, 149, Hong Kong, 50, Singapore, 40, N Z, 40; Fiji, 35, Indonesia, 29)

DEGREES AWARDED (1960) Agric. BAgSci, 18, BScFor, 6, MScFor, 4 Archt BArch, 5, BArch (hons), 2. Arts. BA, 122, BA (hons), 17, BD, 3, BD (hons), 1. Comm & econ BCom, 31, BCom (hons), 2, BEcon, 13, MEcon, 2. Dent. BDS, 70, MDSc, 3. Educn. BEd, 8, MEd, 1. Engin. BE, 52; BE (hons), 19, BSur, 5, ME, 2. Law. LLB, 11. Med MB BS, 61, MB BS (hons), 6. Sci. BSc, 111, BSc (hons), 1, BScApp(Geol), 1; BScApp(IndChem), 5, BScApp(Physio), 9, MSc, 8, MScApp(MedSci), 1, BScApp(Geol) (hons), 3, BScApp(IndChem) (hons), 7. Vet. sci BVSc, 20, BVSc (hons), 1, MVSc, 1. PhD (all facs) 6 Total number of first degrees awarded, 610

DIPLOMAS AWARDED (1960) DipSugSci, 4; DipSugTech, 1, DipEd, 53, DipCom, 32, DipMus, 1; DipArch, 2; DipPhy, 46, DipDiv, 5; DipOccTher, 8, DipSocStud, 1, DipPub Admin, 4, DipPhysEd, 14

CERTIFICATES AWARDED (1960). Educn. (AEd), 68, accty. (AAUQ), 66, teach and trg of subnorm. children (CTTSC), 3

Included in the figures above are —

Postgraduate students, 542 (430 higher degrees, 112 grad dipls.).

New admissions, 2159

Students from other countries, 531 (Countries from which largest numbers came: Fed of Malaya, 171, Hong Kong, 97, Singapore, 69, Indonesia, 36, India, 34)

DEGREES AWARDED (1960) Appl. sci. BSc, 43; BSc (hons), 16, BE, 5, BE (hons), 6, MSc, 11, PhD, 2. Archt. BArch, 9, BArch (hons), 6. Arts. BA, 23, BA (hons), 6. Comm BCom, 16. Engin. BE, 72; BE (hons), 25; MTech, 7, ME, 6; PhD, 1. Sci. BSc, 56; BSc (hons), 19, MSc, 9, PhD, 7

UNIVERSITY OF SYDNEY*

Founded 1850

Postal Address . Sydney, New South Wales, Australia

Cables and Telegrams Univsyd, Sydney

Telephone 68 0522

VISITOR—H E. THE GOVERNOR OF NEW SOUTH WALES

CHANCELLOR—Lt -Col Sir CHARLES B BLACKBURN, KCMG, OBE, BA *Adel*, Hon DSc *N S W*, *Tas* & *Q'ld*, Hon DLitt *N E*, Hon LLD *Melb*, MD ChM, FRCP, Hon FRCPed, FRACP

DEPUTY-CHANCELLOR—Major-General I N DOUGHERTY, CBE, DSO, ED, BEC

VICE-CHANCELLOR AND PRINCIPAL—Emeritus Professor S H ROBERTS, CMG, MA LittD *Melb*, DSc(Econ) *Lond*, Hon LLD *Brist*, Br Col. & *McG*, Hon DCL *Durh*, Hon. DLitt *N E*

DEPUTY VICE-CHANCELLOR—Emeritus Professor A G MITCHELL, PhD *Lond*, MA

ASSISTANT PRINCIPAL—W H MAZE, MSc (on leave)

REGISTRAR—MARGARET A TELFER, OBE, BA DipEd

LIBRARIAN—A D OSBORN, PhD *Col.*, AMLS *Mich*, MA *Melb*

TEACHING STAFF

[†=Part-Time]

Agriculture, see also Animal Husb. and Vet Sci

McMillan, J R A, MS *Corn*, DScAgr Prof.

Campbell, K O, AMPhD *Chic*, MPA *Harv*

BScAgr (Agric Econ) Res Prof

Vincent, J. M., DipBact *Lond*, DScAgr

(Agric Microbiol) Assoc Prof

Watson, I A, PhD *Minn*, BScAgr

(Genetics & Plant Breeding) Assoc Prof

White, N H., DSc *Tas*, MSc

(Plant Pathol) Assoc. Prof

Breyer, B. Z., DrPhil *Bonn*, MD *Padua*,

FRACI (Agric Chem) Assoc. Prof

Collis-George, N, PhD *Camb.*, MSc *Mane*

(Soil Sci.) Assoc Prof

Whitlstone, W G, DSc *N Z*

(Dairy Husb) Reader

Jenkins, H. V, BScAgr

Dir, North West Wheat Res Inst,

Narrabri, N.S.W.

Tchan, Y. T., DSc *Paris*

(Agric Microbiol.) Linnean Macleay Sr.

Lectr.

Baker, E P, PhD *Calif.*, BScAgr

(Genetics & Plant Breeding) Sr. Lectr.

Hacobian, S, PhD MSc

(Agric Chem) Sr Lectr

Crofts, F C, BScAgr (Agron) Sr. Lectr.

Griffin, D M., MA PhD *Camb*

(on leave) (Plant Pathol) Sr Lectr

Anderson, R H., BScAgr (For) †Lectr

Jackson, D L, BScAgr (Agric Bot) Lectr.

Bunt, J S, PhD BScAgr (Microbiol.) Lectr.

Bauer, H H, PhD MSc (Agric Chem) Lectr.

Davey, B G., PhD *Aberd*, BScAgr

(Soil Sci) Lectr.

Parish, R M, BScAgr (Agric Econ) Lectr.

Balaam, L N, BSc *Q'ld.*

(Biometrical Methods) Lectr.

Carter, O G, PhD MS *Corn*, BScAgr

(Agron) Lectr.

McPhillips, J, PhD BScAgr Res. Officer

Anatomy

Macintosh, N. W G, MB BS DipAnth

Challis Prof.

Gabriel, A C., DDS

(on leave) (Dental A.) Sr Lectr.

Thwaites, C F., MB BS, FRACS Sr Lectr.

Perrott, J W Sr Lectr.

Freedman, L, PhD BSc *Cape T* Sr Lectr.

Animal Husbandry

Robinson, T J, PhD *Camb.*, MSc(Agric)

W Aust (on leave) Prof.

Geddes, H J., MAgrSc *N Z*

Gaird Sr Lectr, Dir of Animal

Husb Farms

McNary, H. W., PhD MS BSA *Purdue*

(Poultry Husb.) Dir.

Walker, D. M, MSc *Lond*, PhD BSc *R'dg*

(A Nutr) Sr Lectr.

Barkei, J F S., BAgrSc *Q'ld.*

(A Genetics) Lectr

Ryan, R K, MVSc (A Management) Lectr

Wardrop, I. D., PhD MScAgr *Melb.* Lectr.

* Member of the Association of Universities of the British Commonwealth

Anthropology

- Geddes, W. R., MA NZ, PhD Lond
(Soc. A.) Prof
Hogbin, H. I. F., PhD Lond, MA Reader
Capell, A., PhD Lond, MA (Oceanic Langs) Reader
Meggitt, M. J., MA PhD Sr Lectr
Jaysawardena, C., BA PhD Lond, BA Ceyl Lectr
Swift, M. G., BSc(Econ) Lond Lectr

Archæology

- Stewart, J. R. B., MA Camb.
(Middle Eastern A.) Hall Prof.
Birmingham, Mrs Jean M., MA St And & Lond Sr Lectr
Megaw, J. V. S., MA Edm Lectr

Architecture

- Ashworth, H. I., MA BArch Manc, FRIBA, Prof
FRAIA
Cowan, H. J., PhD Sheff, MSc Manc, MIE Aust (on leave) (Archit Sci) Prof
Winston, D., BArch Lwo, AM Harv, FRIBA (Town & Country Planning) Prof
Baldwinson, A. N., FRAIA Sr Lectr
Molnar, G., DipIngAich Bud Sr Lectr
Meyer, A. R., BArch Sr Lectr
Collard, M., BCE BArch Melb, FRAIA Sr Lectr
Woffenden, H. G., MA Lond Sr Lectr
Boileau, I. E., MA Camb., PhD Manc. (Town & Country Planning) Sr. Lectr.
Rees, L. (Hist of Sculpture & Painting) † Lectr
Trevor-Jones, E., BA Aich Lectr
Clarke, J. H., BSc NZ. (Archit Sci) Lectr
Bunker, R. C., MA Birm. (Town & Country Planning) Lectr.
van Zyl, F. D. W., BArch Cape T Lectr
Toon, J. G. (Town & Country Planning) Lectr

Biochemistry

- Stull, J. L., PhD Camb, BSc McCaughey Prof
Hensley, W. J., MD BS, MRACP Sr Lectr
Pollak, J. K., PhD McG, BSc Sr Lectr
Kellerman, G. M., MB BS MSc Sr Lectr
Webster, H. L., PhD Camb, BSc Sr Lectr
Linnane, A. W., PhD MSc Lectr
Hunt, A. L., PhD BSc Adel Lectr
Dougall, D. K., DPhil Oxon., MSc W Aust Lectr
Done, J., PhD MSc Lond. Lectr

Botany, see also Agric.

- Crocker, R. L., DSc Adel Prof.
Mercer, F. V., PhD Camb, BSc Adel (Plant Physiol) Assoc Prof
Smith-White, S., DScAgr Reader
Newman, I. V., PhD Lond, MSc Sr. Lectr.
Lecturers
Carolin, R. C., BSc Lond (on leave) (Systematic Botanist)
Martin, A. R. H., MA Camb, PhD Lond

- Berrie, G. K., PhD Lond, BSc Manc
ap Rees, T., BA DPhil Oxon
Hughes, A. P., MA PhD Camb
Sr. Tutor
Webster, Jessie A., BSc (on leave)

Chemistry

- Le Fèvre, R. J. W., DSc PhD Lond., FRIC, FRSE, FRACI, FAA Prof, Hd of Sch
Shoppes, C. W., DrPhil Basle, DSc PhD Lond, FRIC, FRSE, FRACI, FAA (Org. C.) Prof.
Alexander, A. E., BSc R'dg, MA PhD ScD Camb, FRACI, FAA (Phys. C.) Prof.
Green, R. A. W., DSc NZ, FRIC, FRACI (Inorg C.) Assoc Prof
Luons, F., PhD Manc, BSc Reader
Iredale, T., DSc Lond, BSc, FRIC, FRACI Reader
Ritchie, E., DSc, FRACI Sr Lectr
Broe, J. J., MSc DipEd Q'ld Sr Lectr
Lyons, L. E., PhD Lond, BA MSc Sr. Lectr
Ross, I. G., PhD Lond, MSc Sr Lectr
Gibson, N. A., MSc PhD Sr Lectr
Freeman, H. C., MSc PhD Sr Lectr.
Parks, A. G., DrPhilNat DrHabil MagChemTechn Tartu, FRACI Sr Lectr.
Taylor, W. C., PhD Manc, MSc Sr Lectr
Harle, A. J., MSc DipEd Lectr
Holland, H. G., PhD Camb, MSc Lectr
Stevenson, Brenda J., MSc N S W Lectr
Sullivan, E. P. A., PhD MSc Lectr
Armstrong, R., BSc Sr. Tutor-Demr
Williams, A. J., MSc Sr Tutor-Demr

Divinity, see below**Economics**

- Butlin, S. J., MA LittD Camb., BEC Prof.
Spann, R. N., MA Oxon (on leave) (Govt & Pub Admin) Prof
Chambers, R. J., BEC (Acctg) Prof.
Rutherford, R. S. G., MA Oxon. (E Stats) Assoc Prof

Senior Lecturers

- Black, H. D., MSc (Econ)
Kewley, T. H., MA DipSocStud DipPubAdmn (Govt & Pub. Admn)
Gates, R. C., MA Oxon, BCom Tas (Econ)
Laffer, K. M., BA W Aust. (Econ.)
Simpson-Lee, G. A. J., BEC (Econ.)
Gunswick, J., BSc(Econ) Lond (E. Hist)
Mayer, H., MA Adel (Govt & Pub. Admn)
Edwards, H. R., DPhil Oxon, BA (Econ)
Wheelwright, E. L., DFC, MA St.And. (Econ.)
Wilson, J. R., MSc (Econ.)
Buckley, K. D., BA Lond (E. Hist)
Burch, A., MA PhD Manc. (E. Hist)
Konijn, H. S., AM Col., PhD Calif (E Stats)
Shaw, A. E., BEC, FASA (Acctg)
Diane, N. T., AM Harv., BEC (Econ)

Lecturers

Bridge, A B K I, QC, LLB
 Kolsen, H M, BEC (on leave) (Econ)
 Loveday, P, BA (Govt & Pub Admin)
 Martin, R M, MA N Z, PhD A N U
 (Govt & Pub Admin)
 Kments, J, AM Stan, BEC (E Stats)
 Westerway, P B, BEC (Govt & Pub Admin)
 Laing, N F, BA Camb (Econ)
 Horner, D T, BSc(Econ) Lond.
 Standish, P E M, BA BEC (Acctg)
 Brown, R S, BEC (Acctg)
 Conn, N R, BEC (Econ)

Education

Connell, W F, PhD Lond, MA Ill,
 MA MED Melb. Prof
 Howie, G, MA EdB Aberd (on leave) Sr Lectr
 Campbell, W J, PhD Lond, MA
 DipEd N Z (on leave) Sr Lectr
 Whyte, Joyce F, PhD Ill, BA MED Sr Lectr
 Miller, T W G, DFC, PhD Birm, BA
 Spearrnt, D., MA MED Q'ld. Sr. Lectr
 Neale, Marie D., MA DipEd N.Z.,
 PhD Birm Sr Lectr.
 Le Maistre, E H, EdD Calif, MED
 BS Springfield (Phys. E) Lectr-in-Charge
 Swann, Marjorie O B, BA (Phys E) Lectr
 Debus, R L, PhD Ill, BA DipEd Lectr
 MacIsaac, A G, PhD Lond, MA Tas,
 BEd Melb Lectr
 Andersen, W E C, MA DipEd Lectr

Engineering, see below

English

(Early E Lit & Lang) McCaughey Prof
 Milgate, W, MA (E Lit) Challis Prof
 Russell, G H, PhD Camb, MA N.Z. Reader
 Wilkes, G A, DPhil Oxon, MA DipEd Sr Lectr
 Cross, K W G, MA PhD DipEd Dub
 Rogers, H L, MA Oxon Sr Lectr
 Herring, Thelma G, MA Oxon & Syd Lectr.
 Martin, B K, MLitt Camb., MA N Z Lectr.
 Dunlop, R T, BA DipEd Lectr
 Delbridge, A, MA Lond, BA DipEd Lectr
 Maudment, W M, BA Lectr
 French, A L, MA MLitt Camb Lectr
 Davison, P H, MA Lond. Lectr.
 Gunn, J. S., MA Lectr
 Little, G L, BA N Staffs., MA Melb. Lectr
 Marsh, D R C, BA PhD Natal Lectr.
 Burrows, J F, BA DipEd Sr Tutor
 Bernard, J. R L, BA BSc DipEd Sr Tutor

Forestry, see Agric

French

Henning, I., DUParis, BA McCaughey Prof
 Goesch, K J, DUParis, BA DipEd Sr Lectr.

Ridley, L A H, BA Lectr.
 Chambers, L R, MA DipEd Lectr.
 Fontaney, P, BLitt Oson Lectr.
 Kirsop, W, BA Lectr.
 Martin, A A, BA DipEd Lectr.
 Davey, Mrs Leath G, LesL Montpellier, BA DipEd Sr Tutor
 Walker, D C, BA Sr Tutor

Geography

McCaughy Prof
 Devery, P J, BSc DipTCP (Phys G) Sr. Lectr.
 Langford-Smith, T, BA Melb, MSc Adel,
 PhD A N U, BSc (Phys G) Sr Lectr
 Ruthford, J, PhD A N U, BA Sr Lectr
 Mathieson, R S, BSc(Econ) Lond,
 MA Wash Lectr
 Logan, M I, BA DipEd Lectr
 Jeans, D N, BA PhD Lond Lectr
 Tilley, P. D, BA Birm, DrPhil Bonn Lectr

Geology and Geophysics

Marshall, C. E., DSc Birm., PhD Durh., FGS
 David Prof of Geol, Hovell Lectr
 Dulhunty, J A, DSc Reader
 Vallance, T G, PhD BSc Sr Lectr
 Glasson, K R, MSc Sr Lectr.
 Quodling, Florrie M, BSc Sr Lectr
 Day, A A, PhD Camb, BSc Sr Lectr
 Packham, G H, PhD BSc Sr Lectr
 Phipps, C V G, PhD Tor, BSc Lectr.
 Jenkins, T. B H, PhD BSc Wales Lectr
 Branagan, D F, MSc Lectr
 Vernon, R H, MSc N E Lectr
 Tompkins, D K, MSc Coal Res. Officer
 Mahoney, J. A., BSc Curator of Collections

German

Farrell, R B, DrPhil Berl, MA McCaughey Prof
 McGlashan, L R. P, DrPhil Mun, BA
 Ryan, L. J, DrPhil Tubingen, BA Sr. Lectr
 Lectr.

Greek

Shipp, G P, MA Camb, BA DLitt Prof
 Treweek, A P., PhD Lond, BA Sr. Lectr
 Quincey, J H, MA Oxon Sr. Lectr
 Ritchie, W., MA PhD Camb, BA Sr. Lectr.

History

Ward, J M, MA LLB Challis Prof.
 McManners, J, MA Oxon, DipTheol Durh.,
 FRHistS Prof
 Jacobs, Marjorie G, MA Sr Lectr
 Bramsted, E, PhD Lond., DrPhil Berl Sr Lectr
 Shaw, A G L, MA Oxon, BA Melb Sr Lectr.
 Mansfield, B E., MA Sr. Lectr
 Evans, D. G., BA Wales & Lond
 (Anc. H.) Sr. Lectr
 Judge, E. A, MA Camb. & N.Z.
 (Anc. H.) Sr. Lectr.

Reese, T. R., BA *Sheff.*, PhD *Lond* Sr Lectr
 MacCallum, D. M., BA Lectr
 Cable, K. J., MA *Camb.* & *Syd.* Lectr
 Stephen, J. F. M. D., MLitt *Camb.*, BA Lectr.
 Nish, I. H., MA *Edin* & *Lond.* Lectr
 Sinclair, R. K., MA *Camb.*, BA DipEd
 (Anc H.) Lectr.
 Stambrook, F. G., BA *Oxon*, PhD
 BSc(Econ) *Lond.* Lectr
 Rose, R. B., MA *Manc.* Lectr
 King, A. Hazel K., DPhil *Oxon*, MA Lectr
 Mitchell, T. J., BA *Adel* Sr. Tutor

Indonesian and Malayan Studies

van Naerssen, F. H., DrPh & Litt *Ley*,
 MA Readcr
 Jones, R. A., BA *Lond* Lectr

Italian

Shaw, R. A., MA *Melb* Sr Lectr -in-Charge
 Lectr

Latin

Dunston, A. J., BA *Adel*, MA *Camb*
 (on leave) Prof
 Nicholls, J. J., MA *Camb*, BA Sr. Lectr.
 Duhigg, J., MA *Camb*, BA Sr. Lectr
 Lome, I. M., BA *Camb.* & *N Z* Lectr.
 Begbie, Cynthia M., MA DipEd Lectr
 Jocelyn, H. D., MA *Camb* & *Syd* Lectr

Law

Shatwell, K. O., MA BCL *Oxon*
 (on leave) Challis Prof
 Stone, J., BA DCL *Oxon*, LL.M. *Leeds*,
 SJD *Harv*
 (Internat L & Jurispr) Challis Prof
 Benjafield, D. G., DPhil *Oxon*, LLB Prof
 Morison, W. L., DPhil *Oxon*, BA LLB Prof
 Parsons, R. W., BA LLB Prof
 Thomson, D. C., BA LLB *W Aust*
 (on leave) (also Hyman Lectr in Indust
 L) Sr Lectr
 Iliffe, J. A., MA BCL *Oxon* Sr Lectr
 Tammelo, I., DrJur *Marburg*, MagJur *Tartu*,
 MA *Melb*
 (Internat L & Jurispr) Sr Lectr
 MacDougall, D. J., JD *Chc*, LLB *Melb*
 Si. Lectr.
 Roulston, R. P., LL.M. *Tas*, LLB Sr. Lectr
 Lane, P. H., BA LL.M. Sr Lectr
 Benthall, R. W., BA LLB *Dub* Lectr
 Campbell, Enid M., PhD *Duke*, LLB
 BEC *Tas* Lectr
 Whitmore, H., LL.M. *Yale*, LLB Lectr
 †Lecturers
 Currey, C. H., MA LL.D. (Const L)
 Barracough, F. E., MA LLB (Lunacy)
 Hutley, F. C., BA LLB
 (Successn & Admiralty)
 Teece, R. C., QC, MA LLB
 (Legal Ethics) Perry Lectr

Rath, A. F., QC, BA LLB
 (Pleading) Challis Lectr
 Budge, A. B. K. I., QC, LLB
 (Proceed) Challis Lectr.
 Selby, D. M., QC, BA LLB
 (Divorce & Domestic Relations) Challis
 Lectr
 Riley, B. B., QC (Bankruptcy) Challis Lectr.
 Badham, L. C., QC (Evidence) Challis Lectr
 Hope, R. M., QC, LLB (Property) Lectr
 Needham, G. D., BA LLB (Const. L) Lectr
 Tebbutt, H. W., BA LLB
 (Conveyancing) Challis Lectr
 St John, E. H., QC, BA LLB
 (Legal Interp.) Challis Lectr.
 Conacher, R. D., LLB
 (Equity Proceed.) Challis Lectr.
 Mason, A. F., BA LLB (Equity) Challis Lectr
 O'Keefe, B. S. J., LLB
 (Crim L) Challis Lectr

Mathematical Statistics

Lancaster, H. O., BA PhD MB BS Prof.
 Mulhall, H., PhD *Camb*, BSc Sr. Lectr
 Bofinger, V. J., MSc DipEd Lectr

Mathematics

Room, T. G., ScD *Camb*, FRS, FAA
 (Pure M) Prof.
 Bullen, K. E., ScD PhD *Camb*, MA *N Z* &
Melb, BSc *N.Z.*, FRS, FAA
 (Appl. M.) Prof.
 Smith-White, W. B., MA *Camb*, BSc
 (Pure M, Analysis) Assoc. Prof

Senior Lecturers

Wall, G. E., PhD *Camb*, BSc *Adel* (Pure M)
 Fletcher, G. C., PhD BSc *Lond* (Appl. M.)
 Williams, J. L., MA *Camb*, MSc (Pure M)
 Kelly, G. M., BA PhD *Camb*, BSc (Pure M)
 Buchwald, V. T., PhD *Lond.*, MSc *Manc*
 (Appl. M)

Lecturers

Bolt, B. A., PhD MSc DipEd (Appl. M)
 Wilson, P. R., BA MSc *Melb* (Appl. M)
 Smith, R. J., PhD *Tennessee*, MSc (Pure M)
 Butcher, J. C., MSc *N Z* (Appl. M)
 Mack, J. M., BSc (Pure M)

Senior Tutor Demonstrators

Ritter, M., BSc *Q'id* (Appl. M.)
 Kaagarv, L., MSc (Appl. M)

Senior Tutor

Hammer, J. A., Dipl. *E.L.Bud.* (Pure M)

Medicine, see below

Mining, see Engineering, below

Music

Peart, D. R., MA BMus *Oxon*, FRCM Prof.
 Harris, S. J. M., BA BMus *Oxon* Lectr.
 Steele, H. J., MA *N.Z.*, PhD *Camb* Lectr.
 Gross, E., MA *Aberd.* Lectr.

Oriental Studies

Davis, A. R., MA <i>Camb</i>	Prof
McKillop, B. C., MA <i>Camb</i> , BA	Sr Lectr
Sargent, G. W., BA PhD <i>Camb</i>	Sr Lectr
Lau, W. P., BA <i>Amoy</i> , MA (on leave)	Lectr
Frodsham, J. D., MA <i>Camb</i>	Lectr

Brennan, M. H., PhD BSc	Lectr
Hazard, C., PhD BSc <i>Mane</i>	Lectr
Little, A. G., BSc N S W.	Lectr
Davis, J., PhD BSc <i>Mane</i>	Lectr
Nicol, Phyllis M., MSc	Sr Tutor-Demr
Salier, D. G., BSc <i>Tas</i>	Sr Tutor-Demr

Pharmacology

Thorpe, R. H., PhD BSc <i>Lond</i>	Prof
Johnson, E. A., MD ChB <i>Sheff</i>	Sr Lectr
Cobbins, L. B., BSc <i>Melb</i> , PhD	Lectr

Physiology

Bishop, P. O., MB BS	Prof
Burke, W., BSc PhD <i>Lond</i> , (on leave)	Sr Lectr
Taylor, M. G., PhD <i>Lond</i> , MD BS <i>Adel</i>	Lectr
Hayhow, W. R., MB BS	Sr Lectr
Eventt, A. V., PhD BSc	Lectr

Pharmacy

Wright, S. E., MSc <i>Q'ld</i> , PhD DipPharm (Pharmacut Chem)	Prof
Watson, T. R., MSc N Z, PhD	Sr Lectr
Large, Dorothy K., BSc DipPharm	Lectr
O'Reilly, W. J., PhD <i>Calif</i> , BSc	Lectr
Coombe, R. G., MSc N Z	Lectr
Thomas, R. E., MSc	Lectr

Psychology

O'Neil, W. M., MA DipEd	McCaughy Prof
Hammer, A. G., MA (Abnormal & Clin P)	Assoc Prof
Champion, R. A., MA <i>Iowa</i> , BA (on leave)	Sr Lectr
Sutcliffe, J. P., MA PhD	Sr Lectr
Raddcliffe, J. A., BA	Sr Lectr
Day, R. H., PhD <i>Brist</i> , BSc <i>W Aust</i>	Sr Lectr
Lyle, J. G., MA <i>Melb</i> , PhD <i>Lond</i>	Sr Lectr
Pollack, R. II., MA PhD <i>Clark</i> , BS <i>Col of City of N Y</i>	Lectr
Earle, A. E., MA <i>Camb</i> (on leave)	Lectr
Mare, J. R., MA	Lectr
Gray, K. C., BA DipEd	Lectr
Moutimer, Yvonne S., BA <i>Brist</i> , PhD <i>Lond</i>	Lectr
Nash, J., PhD BSc <i>Edin</i>	Lectr
Thomson, R. I., MA DipEd	Lectr
Hopes, W., BA	Sr Tutor

Philosophy

Stout, A. K., MA <i>Oxon</i>	Prof
Mackie, J. L., MA <i>Oxon</i> , BA	Challr Prof
Walker, Alice R., BA	Sr Lectr
Rose, T. A., MA (on leave)	Sr Lectr
Baker, A. J., BPhil <i>Oxon</i> , BA	Sr Lectr
McCallum, D. M., MA BPhil <i>Oxon</i> , BA	Sr Lectr
Roxon, E., BA	Lectr
Bonney, W. L., BA BPhil <i>Oxon</i> , MA <i>Tas</i>	Lectr
Stove, D. C., BA	Lectr
Ginnane, W. J., MA <i>Melb</i> , BPhil <i>Oxon</i>	Lectr
Khamara, E. J., BA <i>Lond</i>	Lectr
Bradley, M. C., MA <i>Adel</i> , BPhil <i>Oxon</i>	Lectr

Physics

Messel, H., PhD N U.I., BA BSc <i>Qu</i>	Prof, Hd. of Sch.
Butler, S. T., PhD <i>Burm</i> , MSc <i>Adel</i> (Theoret. P)	Prof
Watson-Munro, C. N., OBE, MSc N Z, FIP (Thermo-nuclear P)	Prof
Love, W. H., PhD <i>Camb</i> , BSc	Dir, 1st & 2nd yr. Courses
Makinson, R. E. B., PhD <i>Camb</i> , BSc (on leave)	Reader
McCusker, C. B. A., MSc <i>Mane</i>	Reader
Mills, B. Y., DScEng BSc, FAA	Reader
Fraser, M., MA DPhil <i>Oxon</i>	Sr Lectr
Rathgeber, H. D., DIng <i>TH Stuttgart</i>	Sr Lectr
Ma, S. T., PhD <i>Camb</i> , BSc <i>Peking</i>	Sr Lectr
Guest, P. G., PhD MSc	Sr Lectr
Twiss, R. Q., MA <i>Camb</i> , ScD <i>MIT</i>	Sr Lectr
Millar, D. D., PhD <i>Dub</i> , BSc <i>St And</i>	Sr Lectr
Buckingham, M. J., PhD <i>Liv</i> , MSc	Sr Lectr
Mary, R. M., PhD BSc	Sr Lectr
Wynn, M. M., PhD <i>Burm</i> , MSc	Lectr
Wallace, C. S., BSc PhD	Lectr

Semitic Studies

MacLaurin, E. C. B., MA <i>Camb</i> , BA BD	Lectr
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Social Work

Brennan, T., MA <i>Camb</i>	Dir
Parker, Norma, MA <i>W Aust</i> , DipSocSci <i>Wash</i>	Supervisor of Professional Tg
Battle, Betty, BS <i>Col</i> , DipPhysEd <i>Melb</i>	Supervisor of Group Work
McLelland, Mary S., AM <i>Chic</i> , BA <i>Q'ld</i> , DipSocStud	(on leave) (Soc Case Work)
Ogilvie, F. Katherine, MBE, BA	(Med Soc Work)
Lawrence, R. J., BA <i>Oxon</i> & <i>Syd</i>	(Soc Admin)
Langley, Doreen, MBE, BSc DipDict <i>Melb</i>	(Lectr)
Grutzner, Margaret E., BA DipSocStud <i>Melb</i> (Psychiatric Case Work)	(Lectr)
Trethowan, W. II., MA MB BChm <i>Camb</i>	DPM <i>Lond</i> , FRACP
Nash, J., PhD BSc <i>Edin</i>	Lectr
Burns, F. H., MB BS, MRACP	Lectr
Barnes, Lesley H., MB BS DPM	Lectr
Wyatt, W., MB ChB <i>Edin</i> , DPM <i>Lond</i>	Lectr

Veterinary Science

Carne, H. R., DVSc
(V Pathol & Bacteriol) Hughes Prof
Emmings, C. W., DSc PhD Lond, FAA
(V Physiol.) Prof
McFarlane, D., BSc Glas (V Med) Prof
Whitlstone, W. G., DSc NZ
(Dairy Husb) Reader

Senior Lecturers

Webb, R. M., BVSc (on leave) (V Anat)
Bain, R. V. S., MSc Adel., BVSc
(V Pathol & Bacteriol)
Steel, J. D., BVSc (V Med)
Larsen, L. H., MS Colorado, BVSc
(V Surg. & Obstet)
White, I. G., PhD BSc (V Physiol)
Loomis, L. N., DVM MS Mich
(V Pathol & Bacteriol)
McClure, T. J., BVSc (V Med)
Johnston, K. G., DipBact Lond, BVSc
Sr Clin V Pathologist

Lecturers

Osborne, Virginia E., BVSc (V Anat)
Lawrence, W. E., BVSc
(V Pathol & Bacteriol)
Wales, R. G., BVSc (V Physiol.)
Wright, A., PhD BSc Lev (V Anat.)
Gordon, H. M., BVSc †(V Parasitol)
Keep, J. M., BVSc Supt, V. Hosp
Hutchins, D. R., BVSc
Supt, Rural V Centre, Camden
Hyne, R. H. J., BVSc
Clin Instr., Rural V Centre, Camden

Zoology

Birch, L. C., DSc Adel., BAgSci Melb
Challis Prof
Woodhill, A. R., DScAgr
(Entomol) McCaughey Reader
Colefax, A. N., BSc Sr. Lectr
Stephenson, N. G., PhD Lond, MSc NZ
Sr Lectr
Dawbin, W. H. I., MSc NZ Sr Lectr
Lamb, K. P., PhD Camb, MSc NZ Sr Lectr
Salter, K. E. W., BSc (Entomol.) Lectr.
Simons, J. R., PhD Lond, MSc Lectr
Anderson, D. T., PhD BSc Lond Lectr.
Racek, A. A., DrRerNat Brno Lectr
Reisner, A. H., AB Stan, PhD Indiana Lectr
Meyer, G. R., PhD Lond., BA Med BSc
DipEd Lectr

DENTISTRY

Amott, A. J., DDS, FDSRCS, FACD
McCaughey Prof
Jolly, M., MDS Sr. Lectr

Ceramics

Grainger, W. A., MDS †Lectr

Dental Anatomy and Dental Histology

Gabriel, A. C., DDS (on leave) Sr Lectr.

Dental Histology

Griffin, C. J., DDS Sr Lectr

Dental Jurisprudence

Ash, W. P., BA LLB †Lectr

Dental Materia Medica and Therapeutics

Crane, L. G., DDS †Lectr

Dental Pathology

Cameron, D. A., MDS Assoc. Prof

Operative Dentistry

Lyell, J. S., MDS Assoc Prof
Bull, A. W., DDS Northwestern, BDS Sr Lectr.
Wing, G., MDS Lectr
Barker, B. C. W., BDS, FDSRCS Lectr

Orthodontia

Henry, R. G., MDS †Lectr

Periodontia

Levine, S., MDS †Lectr.

Preventive Dentistry

Martin, N. D., MDS Assoc Prof.
Godfrey, K., MDS Sr Lectr

Prosthetic Dentistry

Graham, C. H., DDS Northwestern, MDS Prof.
Earnshaw, R. G., PhD Manc., MDS Q'ld. Sr Lectr
Bevan, E. M., MDS (on leave) Lectr

DIVINITY**Ecclesiastical History**

Amott, Rev F. R., MA Oxon, ThD ACT †Hd. of Dept

New Testament Language and Literature

Brown, Rev J. H., MA BD PhD Glas †Hd. of Dept

Old Testament Language and Literature

MacLaurin, E. C. B., MA Camb, BA BD †Hd of Dept

Philosophical and Historical Theology

Hayward, Rev. S. R. B., MA Camb †Hd of Dept.

ENGINEERING

Aeronautical Engineering

Wittrick, W H, MA *Camb*, PhD, FAA
Lawrence Hargrave Prof
Bird, G A, BSc ME Sr Lectr
Davies, G A O, BEng Lrv Lectr

Chemical Engineering

Hunter, T G, DSc PhD *Birm*, FRACI Prof
Wood, T, MSc *Birm*, PhD (on leave) Sr Lectr
Prince, R G H, BSc BE(Chem) *N.Z.*,
PhD Sr Lectr
McManamey, W J, PhD ME Sr Lectr
Parker, H H S, BSc Sr Lectr
Elms, J N, BE Lectr
Coillet, D W, MSc *Melb* Lectr
Glastonbury, J R., MEngSc Lectr

Civil Engineering

Roderick, J W, MA *Camb*, MSc PhD *Brist*,
MIEAust, FAA Challis Prof
Aston, R L, MSc PhD *Camb*, BSc BE,
MIEAust
(Geodesy & Surveying) Assoc. Prof
Pottet, O S, BSc BE Sr Lectr
Davis, E H, BSc(Eng) *Lond* Sr Lectr
Campbell-Allen, D, MA *Camb* Sr Lectr
Watkins, R D, PhD *Aberd*, BE *Q'ld* Sr Lectr
Rawlings, B, BSc MEngSc Sr Lectr
Hawkins, C A, BE, MIEAust (Road E) † Lectr
Stewardson, P B, BSc *Dish* (on leave) Lectr
Dunlop, N M, BE
(Water Supply & Sewerage) † Lectr
Harrison, H B, MEngSc BSc Lectr
Vickery, B J, MEngSc Lectr
Trahan, N S, BSc MEngSc Lectr
Jones, P B, MEngSc Lectr

Electrical Engineering

Christiansen, W N, DSc *Melb*, FIP,
FAA Russell Prof
Atchison, R E, MSc, FIP, MIEAust
(Communication E) Assoc. Prof.
Messerle, H K, MEngSc *Melb*, PhD Reader
Doe, A G, BSc BE Sr Lectr
Robinson, R B, BSc BE Sr Lectr
Murray, C T, BSc BE (Electronics) Sr Lectr
Mackerras, A P, BE, MIEAust Sr Lectr
Evans, F J, BSc BE (on leave) Sr Lectr
George, D W, BSc BE Sr Lectr
Docherty, I S, BSc Lectr
Wong, D G, MEngSc BSc Lectr
Pike, D B, BSc BE Lectr
Munro, G H, DSc *N Z*, FIP Hon. Lectr.

Mechanical Engineering

Fink, P T., BE Russell Prof
Hart, K R M, BSc ME Sr Lectr
Vonwiller, G B, BSc BE
(E Des & Drawing) Sr Lectr
Axelrad, D R, DiplIng *Vienna*, MEngSc
Sr. Lectr

Peterson, V R, BA BSc BE BEc Sr Lectr
Boomsma, M, Ing *Amst*. (Mech E Des) Lectr
Bayley, H G, MSc *Burn*, BE, Lectr
Sherwood, A A, BSc(Eng) *Lond*, Lectr
Halliday, R F, BA BE Lectr.
Luxton, R E, PhD *Lond*, BE *Adel* Lectr

Mining Engineering

Hargraves, A J, BME *Melb*. Temp Sr Lectr.
† Russell Lectr

MEDICINE

(for subjects of first 2 yrs.—
Anat., etc., see above)

Anaesthetics

Shea, L T, MB BS DA † Lectr, Tutor
Dwyer, B E, MB BS, FFARCS † Clin. Lectr
Jobson, P L, MB BS DA † Clin. Lectr
McCulloch, J F, MB ChM DA, FRACP,
FFARCS † Asst. Clin. Lectr.
Radcliff, J R, MB BS, FRIC, FRACI
† Asst. Clin. Lectr
O'Shea, B D, MB BS DA* † Asst. Clin. Lectr
Joseph, D, MB BS, FFARCS † Tutor
Spears, R B, MB BS DA † Tutor
Bowen, J M. C, MB BS DA † Tutor
Hodge, A H, MB BS DA † Tutor
Shaw, W R M, MB BS DA † Tutor
Gunner, B W, MB BS DA † Tutor

Bacteriology

de Burgh, P M, MB BS Bosch Prof.
Charlton, G, MDS Sr Lectr.
Faine, S, DPhil *Oxon*,
MD ChB BMedSc *N Z* Sr Lectr
Ellem, K A O, MB BS BSc(Med) Sr. Lectr

Child Health

Stapleton, T., MA DM BCh *Oxon*. Prof
Clements, F. W A, MD BS DTM DPH
Sr Lectr.

Diseases of Ear, Nose, Throat

Bulteau, V G, MB BS DLO, FRACS † Lectr.

Diseases of the Skin

Perkins, R. B, MB BS BSc, FRACP † Lectr

Embryology, see Histol

Gynaecology

Stening, G G. L, ED, MB BS, FRCSED,
FRCOG, FRACS † Clin. Lectr
Chenhall, F. N., MB BS, FRCS, FRACS
† Clin. Lectr.
Studdy, A S B, MB ChM † Clin. Lectr.
McGarrity, K. A., ED, MB BS, FRCOG
† Clin. Lectr.
Moon, A A, MBE, MB ChM, FRCSED,
FRCOG, FRACS † Clin. Lectr

Stening, M. J. L., VD, MD BS, FRCS,
FRACS †Asst Clin. Lectr
Jasper, W. G., MB BS †Asst Clin Lectr
Mearns, S. D., MB BS, FRCOG,
FRCSed, FRACS †Asst Clin Lectr
Loxton, J. C., MB BS, FRCSEd, FRACS

Kennedy, M. M., MB BS, FRCSEd,
FRACS †Tutor
Mulvey, Margaret, MB BS †Tutor
Knox, J. W., MB BS, FRCSEd, FRACS †Tutor

Histology and Embryology

Cleland, K. W., MB BS Bosch Prof
van Lennep, E. W., NatPhilDrs *Utrecht*
Sapsford, C. S., DVSc Sr Lectr.
Giffin, C. J., DDSc (Dent H. & E) Sr Lectr.
Sullivan, G. E., MSc NZ., PhD Lectr.

Infectious Diseases

Symington, N. J., MB ChM †Lectr

Medical Ethics

Hunter, J. G., CMG, MB ChM BSc †Lectr

Medical Jurisprudence

Percy, C. E., MB ChM †Lectr.

Medicine

Blackburn, C. R. B., MD BS, FRCP, FRACP Prof
Read, J. R., MD BS, MRACP Sr Lectr.
Piper, D. W., MB BS, MRACP Sr Lectr.
Hickie, J. B., MB BS, MRACP Sr Lectr.
McRae, J., PhD *Calif*, MB BS BSc(Med), MRACP Sr Lectr.
Posen, S., MB BS *Adel*, MRACP Sr Lectr.
Fowler, K. T., PhD *Lond*, MSc NZ Biophysicist

Morrow, Sir William, DSO, ED, MB BS,
FRCP, FRACP (Therapeutics) †Lectr.
Harrison, K. S., MB BS DTM, FRACP (Therapeutics) †Lectr.
Brown, K. S. M., MB ChM (Hist of M) †Lectr.

†Clinical Lecturers

Brodzinski, I. A., MB BS, FRACP
Greenaway, T. M., MB ChM, FRCP, FRACP
Fisher, W. E., MD ChM, FRACP
Markell, P. J., MB ChM, MRACP
Hall, G. V., MB BS, MRACP
Stapleton, T., MA *QM BCh Oxon*
†Assistant Clinical Lecturers
Maddox, J. K., VD, MD ChM, FRCP, FRACP
Spark, T. E. H., MB BS, FRACP
Deakin, J. H., MB BS, MRACP
Morrow, Sir William, DSO, ED, MB BS,
FRCP, FRACP
Epps, R. G., MB BS BSc
Geddes, B. L., MB BS, MRACP
Piper, D. W., MB BS, MRACP
Selby, G., MB BS, MRACP

Stuckey, D. S., MD BS, FRACP
Thomas, I. D., MB BS, MRACP

†Tutors

Harrison, K. S., MB BS DTM, FRACP
Haynes, B. G., MB BS
Puffett, R. D., MB BS, FRACP
Ritchie, F. L., MB BS, FRCPEd, MRACP
McDonald, G. L., BA MB BS, MRACP
Eakin, R. I., MB BS, MRACP
Curtin, B. A. D., MB BS, MRACP
Robertson, T. I., MB BS, MRACP
Raftos, J., MB BS, MRACP
Stuckey, D. S., MD BS, FRACP
Billington, B. P., MB BS, MRACP
Dalton, W. R., MB BS, MRACP
Burns, F. H., MB BS, MRACP
Harvey, H. P. B., MB BS, MRACP
Richards, J. G., MB BS, MRACP
Epps, R. G., MB BS BSc
Bauer, G. E., MB BS, MRACP
Hickie, J. B., MB BS, MRACP
Hurt, B. R. M., MB BS, MRACP
Greenaway, J. M., MB BS, MRACP
Packard, R. S., MB BS, MRACP
Wolfenden, W. H., MB BS, MRACP
Dowd, B. T., MB BS, MRACP
Tink, A. R., MB BS, MRACP
Vines, R. H., MB BS *Syd*, MRACP
Bateman, T. P. G., MB BS, MRACP
Church, D. T., MB BS, MRACP
Mulhearn, R. J., MB BS
Selby, T., MB BS, MRACP
Skyring, A. P., MB BS, MRACP
Lewis, R. G., MB BS, MRACP
Reed, C. S. H., MB BS, MRACP
Thomas, I. D., MB BS, MRACP
Beneche, J., MB BS, MRACP
Hennessey, W. B., MB BS, MRACP
O'Connell, B. P., MB BS

Newborn, Care of

Winning, Kathleen M., MB ChM †Lectr.
Stening, S. E. L., DSC, MB BS, FRACP
Isbister, Mrs. Clair, MB BS, FRACP †Lectr.
Bellmaine, S. P., MB BS, FRACP †Lectr.

Obstetrics

Mayes, B. T., MVO, MB BS, FRCSEd,
FRACS, FRCOG Prof
Shearman, R. P., MB BS DGO Assoc. Prof.
Reid, B. L., MB BS BVSc DTM&H Sr. Lectr.
Booth, E. A., MB BS DDR
(Radiol. in Obstet) †Lectr.
Heseltine, Mary J., MB BS *Melb.*, FRACP
(Bacteriol. & Pathol. in Obstet.) †Lectr.

†Clinical Lecturers

Cunningham, W. D., MB BS, FRCOG
Moon, A. A., MBE, MB ChM, FRCSEd,
FRCOG, FRACS
Richardson, K. S., MB BS DGO, FRACS

†Assistant Clinica; Lecturers

Hobson, A. F., OBE, MB BS, FRCSed,
FRCOG, FRACS
Jasper, W. G., MB BS
Meares, S. D., MB BS, FRCSed, FRCOG,
FRACS
Bellingham, F. A., MB BS, FRCOG
Grant, A. M. B., LM *Dub*, MB BS, FRCSed
Syred, R. H., MB BS DGO, MRCOG
Drummond, M. T., MB BS
Collins, E., MB BS

†Tutors

Cope, T. I., MD BS, FRCS, FRACS
Benson, Lois E., MB BS DGO
Holman, E. D., MB BS
Cummins, G. E., MB BS
Garrett, W. J., DPhil *Oxon*, MB BS, FRCSed
Scheumack, D. R., MB BS

Ophthalmology

Armstrong, K. B., MB BS, FRACS | Lectr

Pathology

Magarey, F. R., MD BS *Adel*, FRACP Prof
Cameron, D. A., MDS (Dental F.) Assoc Prof
Finckh, E. S., MB BS DCP Sr. Lectr
Smith, K. V., MB BS *Adel*, MRACP Sr. Lectr
Stehbens, W. E., DPhil *Oxon*, MB BS Sr. Lectr
Cox, R. W., DPhil *Oxon*, MD ChB *N Z* Sr. Lectr

Preventive Medicine

Ford, Sir Edward, OBE, MD BS *Melb*,
DPH *Lond.*, DTM, FRCP, FRACP Prof
Scott, G. C., MB BS DPH DTM&H Lectr

†Honorary Lecturers

Park, C. L., MD BCh DPH *Melb*
Southwood, A. R., CMG, ED, MD MS *Adel*,
FRACP
Fryberg, A., MBE, MB BS *Melb*, DPH DTM
Henzell, L., MD BS DPH *Lond*
George, W. E., MB ChM, FRACP
Heydon, G. A. M., MC, DPH DTM&H *Camb*,
BA MB ChM, FRACP
Fairley, Sir Neil Hamilton, KBE, MD DSc
Hon LLD *Melb*, Hon. DSc, FRCP,
FRCPed, FRACP, FRS
Cruckshank, J. M., CMG, OBE, MD CM
DPH *McG*, DTM *Lond*, FACP, FACS
McIntosh, A. M., BA MB ChM, FRACS
Wunderly, Sir Harry, MD BS *Melb*, FRCP,
FRACP
Backhouse, T. C., MB BS *Melb*, DPH *Oxon*,
FRACP

Psychiatry

Maddison, D. C., MB BS DPM, MRACP Prof.
Grutzner, Margaret E., BA DipSocStud
Melb (Psychiatric Soc. Work) Lectr.

Surgery

Loewenthal, J. I., MS *Melb*, MB BS, FRCS,
FACS, FRACS Prof
Bolliger, A., DrPhil *Basle*, DSc
(Exper. S.) Reader, Res Dir Gordon
Craig Urol Res Labs
Milton, G. W., MB BS *Adel*, FRCS,
FRACS Assoc Prof.
Mackenzie, D. C., MB BS, FRCS Sr. Lectr
Halliday, J. P., MB BS, FRCS, FRACS
Wyndham, N. R., MD MS, FRCS, FRACS Sr. Lectr
†Lectr & Tutor to deft. students

|Clinical Lecturers

Goulston, E. H., MB BS, FRCSI, FRACS
Wyndham, N. R., MD MS, FRCS, FRACS
McGrath, W. S., MB BS, FRCS, FRACS
Steigrad, J., CBE, ED, MB ChM, FRACS
Findlay, A. P., MB ChM
Loewenthal, L. S., MB ChM, FRACS

†Assistant Clinical Lecturers

Lovell, S. H., ED, MB MS, FRACS
Malcolm, R. J. W., MB ChM, FRCS, FRACS
Johnson, A. S., MB MS, FRACS
Cumberland, V. H., MB MS, FRCS, FRACS
Fagan, K. J., MB MS, FRACS
Tracy, G. D., MB, FRCS

†Tutors

Barling, E. V., MBE, MB BS, FRCS, FRACS
Langley, E. F., MB BS *Melb*, FRCS
Wilson, T. E., MD MS MSc *Melb*, FACS,
FRCS, FRCSed, FRACS, MRACP
Alexander, M. S., OBE, MB MS, FRACS
Pullen, W. J., MB MS, FRCS, FRACS
Spence, J. W., MB BS, FRCS, FRACS
Fleming, J. P., MB MS, FRCS, FACS, FRACS
Fowler, N. A., MB BS, FRCS, FRACS
Goldie, J. E. D., MB BS, FRCS, FRACS
Opie, R. C., MB MS, FRACS
Tomlinson, P. A., OBE, MB MS, FRACS
Sharp, A. C. R., MB BS, FRCS, FRACS
Greenwell, P. H., MB BS, FRCS, FRACS
Condon, R. D., MB MS, FRCS, FRACS
Keller, W. L. H., MB MS *DA*, FRACS
Jones, K. S., MB BS, FRCSed, FRACS
Lake, M. E., MB BS, FRCS, FRCSed
Cortis, E. M., MB BS, FRCS, FRACS
Colman, J. V. L., MB BS, FRCS
Hughes, J. D., MB BS, FRCS
Schneider, O. H., MB BS, FRCS, FRACS
Cohen, D. H., MB MS, FRACS
Bowring, A. C., MB BS, FRCS, FRCSed
Hudson, R. S. B., MB BS, FRCS, FRACS
Morgan, B. P., MB BS, FRACS
Ingles, M. J., MB BS, FRCS, FRCSed, FRACS
Graham, J. W., MB BS, FRCS, FRACS
Nash, T. P., MB BS, FRCS, FRACS
O'Neill, J. P., MB BS, FRCS, FRACS
Cropley, D. O., MB BS, FRCS, FRACS

Tropical Medicine

.... Prof.
Black, R. H., MD BS *Syd*, DTM&H *Lw*.
Sr. Lectr

†SPECIAL LECTURESHIP

Cross, K W G, MA PhD DipEd *Dub*
(Aust Lit)

TUTORIAL CLASSES

Wilson, J L J., BA NZ. Dir
Asst Dir
13 Tutors, 124 Tutorial Class Lectrs †

ADMINISTRATIVE AND OTHER STAFF

Accountant J C Bongers, FASA. Information Officer A. A. Gamble, FRAIA Dep. Registrar H. G. McCredie, LLB. Asst. Registrars M. Nell McKenzie, BA (Asst Registrar in charge of Exams), S. Weir Wilson, BEC, D R V. Wood, BEC; R B Fisher, MA NZ, Jean D. Laing, BA DipSocStud, B R Maley, BA Asst Accountant C A McClenahan, BEC Assoc. Librarian Beatrice P. Wines, BA Asst Librarians: Marjorie M. Thompson, BEC (in charge of Cataloguing), Jean P. Whyte, BA *Adel*, AM *Chc* (in charge of Public Services) Acquisitions Officer C M Hotimsky Archivist D S Macmillan, MA *Glas* Dir of Student

Health Services T D Wilkins, MB BS Dir. of Student Advisory Services S. W. Cohen, PhD *Lond*, MA Adviser to Men Students G Y D Scarlett, BA Adviser to Women Students Agnes M A Scobie, BA Officer of Works R J. Brickhill, BE BEC DipTCP. Architect Planner W V Abraham, BArch DipTCP Sr Admin Officer K R McInnes, BEC DipTCP Officer in Charge of Services G Preston, BA Exec. Asst in sch of phys O A Guth Sec to Appts Bd Isabel D. McKinney, BA Actg Sec to Extn Bd J J Nicholls, MA *Camb*, BA Housing Officer Mrs Doris Whalan

COLLEGES WITHIN THE UNIVERSITY

St. Andrew's College, Newtown, Sydney (tel LA1087) (Presb) For men Principal—Rev A A Dougan, MA Vice-Principal—Prof R N Spann, MA *Oxon* 6 Fellows and 23 Tutors

St. John's College, Camperdown, Sydney (tel LA1240) (RC) For men Rector—Very Rev. B J. Burnheim, MA *NUI*, DPhil *Louvain* Vice-Rector—Rev. R J Hine 8 other Tutors.

St Paul's College, Newtown, Sydney (tel LA1447) (Anglican) For men Warden—Rev F R Arnott, MA *Oxon*; ThD *ACT* Sub-Warden—J F Farrar, MB BS, MRACP 33 other Tutors

Sancta Sophia College, Camperdown, Sydney (tel LA2467) (RC) For women Principal—Rev Mother Yvonne Swift, LLB *Melb* Vice-Principal—Mother Mary Shanahan, BA 17 Tutors

Wesley College, Newtown, Sydney (tel LA2024) (Methodist) For men Master—Rev B R Wyllic, MA *Melb*, BD *Melb* Div Coll 15 Tutors

The Women's College, Newtown, Sydney (tel LA1195) (Undenominational) Principal—Doreen Langley, MBE, BSc DipDiet *Melb* 15 Tutors

GENERAL INFORMATION

Founded in 1850, the Univ of Sydney is the oldest univ in Australasia. Its devel has been largely due to private benefactions. The act of incorporation provided for the appt of a senate of 16 fellows (later increased to 26) and a statutory grant of £A5000. The first provost and vice-provost (later entitled chancellor and vice-chancellor) were elected the following yr, and the first 3 profs arrived in Sydney from the U.K. in 1852, the yr of the univ's inauguration in the Sydney coll bldgs. (now occupied by Sydney Grammar Sch) in College St. These bldgs proved to be inadequate, and the state govt made a grant of land at Grose farm on the western boundaries of the city, with provision for subgrants by the senate for 4 colls and for subsidies towards the coll. bldgs. and the salaries of their hds. The univ was transferred to this, its present site, in 1857. St. Paul's College (C. of E) was

established in 1854, St. John's (RC) in 1857, St. Andrew's (presb) in 1867, the Women's College (undenominational) in 1889, Wesley College (methodist) in 1910 and Sancta Sophia College (RC women) in 1929. All were built on univ land and subsidized on equal terms.

Most of the univ bldgs have been provided from public funds. The Great Hall, a replica of Westminster Hall, London, was opened in 1859 and the main bldg. completed the following yr.

The univ was granted a royal charter in 1858. Women were admitted to membership of the univ. in 1881 and were given the same rights as men 3 yrs. later.

CONSTITUTION The body politic and corporate of the Univ of Sydney consists of a senate constituted of 4 fellows apptd by the governor, 1 elected by the legislative council, 1 by the legisla-

trive assembly, 10 by the grads., 3 by the fellows, 1 the vice-chancellor of the time, 5 rep of the teaching staff, 1 (a grad.) rep of the undergrads. The chancellor and deputy-chancellor are elected by the senate from its own members. The chancellor or, in his absence, the deputy-chancellor, presides at all meetings of the senate, if both are absent, a chairman is elected by the fellows. The entire management of the affairs, concerns and property of the univ. is controlled by the senate, which makes the by-laws and is subject to approval of the governor, who is the visitor to the univ. No religious test is administered to any person.

There is a professorial bd to further and co-ordinate the work of the facs and depts and encourage schol. and res. The facs are responsible for supervision of teaching and conduct of exams. The proctorial bd may, on reference by the vice-chancellor, impose penalties for breach of discipline or misconduct by students.

INCOME (1960). £A3,588,297 (state govt grants, 47 per cent, Commonwealth govt grants, 23 per cent, fees, 25 per cent, endowments, 25 per cent, other sources, 25 per cent).

FACULTIES AND DEANS (1960). *Agric.*, Prof J. R. A. McMillan, *archt.*, Prof H. I. Ashworth, *arts*, Prof A. J. Dunston (Latin), *dent.*, Prof A. J. Amott, *econ.*, Prof S. J. Butlin; *engin.*, Prof J. W. Roderick (civil engin.), *law*, Prof K. O. Shatwell, *med.*, Prof F. R. Magarey (pathol.), *sci.*, Prof T. G. Room (maths.), *vet. sci.*, Prof H. R. Carme.

UNIVERSITY PRECINCT. The univ. is purchasing 35 acres adjacent to the existing grounds (81 acres excl. land occupied by colls). Half of this area has already been bought. The total area of 116 acres has been divided into 9 fac. precincts, areas for recreation, admin. services, etc. Over the next decade, it is planned to erect new bldgs. and to replace and renovate many old ones to provide adequate accomm. for 16,000 students.

The UNIV. LIBRARY, 647,130 vols., consists of the Fisher libr. and its 3 branches together with 52 depts. libr., the largest of which are: *agric.*, 3459; *archt.*, 10,979; *dent.*, 6874; *econ.*, 9000; *engin.*, 22,384; *geog.*, 7960; *geol.* & *geophys.*, 11,348; *law*, 34,311; *med.*, 24,572; *phys.*, 4813; tutorial classes, 5819. Associated libr. within univ. grounds, 234,939 (approx). Grand total, 882,069 vols. 31,800 vols. are in Chinese and Japanese.

MUSEUMS. Nicholson collection of prehistoric, Egyptian, nr. eastern, Cypriot, Greek and Roman antiq.; Macleay nat. hist., J. T. Wilson human anat.; J. L. Shellshear compar. anat. & phys. anthropol.; Haswell zool.; pathol.; obstet.; mat. med. War Memorial gallery of fine arts in memory of members of the univ. who fell in world war II.

LABORATORIES. *Agric.* (agron., *agric.*, *econ.*, genetics & plant breeding, *agric.*, *microbiol.*, plant pathol. and soil sci.), *anat.*, animal husb., *archt.*

sci., *archt.* (atelier), *bacteriol.*, *biochem.*, *bot.*, *chem.* (inorg., org., phys.), *computing* (phys.), *dent.*, *engin.* (aeron., chem., civil, electr., mech. and mining engin. and general hydrodynamics & ship tank), *geog.*, *geol.* & *geophys.*, *hygi.* & *embryol.*, *maths.* (computing), *med.*, *obstet.*, *pathol.*, *pharmacol.*, *pharm.*, *phys.*, *physiol.*, *psychol.*, rural vet. centre, Camden, NSW, *surg.*, univ. farms, Camden, NSW, *vet. sci.* (vet. med., vet. pathol. & bacteriol. and vet. physiol.), *zool.* Govt. labs.—CSIRO. *biochem.*, electr. engin., genetics, high pressure, plant physiol., Commonwealth dept. of health drug analysis, state dept. of agric., milk bd labs.

FIELD STATIONS. Crommelin biol. stn., Peal Beach, via Woy Woy (biol. res. on central coast of NSW). Castle Hill res. stn. (metropolitan area), Waterhouse plant breeding stn., Curlew (nr. Gunnedah, N.E., NSW). McGarvie Smith animal husb. farm, nr. St. Mary's, NSW (400 acres), *vet. sci.* farms (770 acres) for teaching of animal husb. and rural vet. centre (30 acres) for teaching of clin. vet. med. & *surg.* (Camden district, NSW). Univ. of Syd. astron. stn., Narrabri, NSW (stellar interferometer project in collaboration with Univ. of Manchester).

HOSPITALS—recognized clin. schs. Royal Prince Alfred, Sydney, St. Vincent's and The Royal North Shore, Royal H. for Women and Women's H., Crown St., King George V Memorial H. for Mothers and Babies (obstet. & gynaeol.), Royal Alexandra H. for Children (paediatrics), a number of others are recognized for special postgrad. trg.

The LAW SCHOOL (univ. dept.) is located at 167 Phillip St., Sydney (tel. BW5944), and the DENTAL HOSPITAL OF SYDNEY (univ. dept. of dent.) at 2 Chairers St., Sydney (tel. MA7591), dept. of *archit.* at 146-148 City Rd., Darlington (tel. 68 0522), and dept. of *archit. sci.* at 118-120 City Rd., Darlington (tel. 68 0522), POSTGRAD. CTTEE. IN MED. at Harford House, 188 Oxford St., Paddington (tel. 31 0671).

SCHOOL OF PUBLIC HEALTH AND TROPICAL MEDICINE. The sch. acts as the teaching and exam. centre for the univ.'s dipls. of pub. health and of trop. med. and hyg. In addition, a course in pub. health and prev. med. is given for undergrad. students. Courses are also given in architectural hyg., soc. hyg., trop. hyg. and indust. nursing. The sch. is financed by the Commonwealth health dept., but all teaching is directly controlled by the univ. and the fac. of med., together with all matters concerning dipls., syllabuses, fees, exams, etc. An advisory council of reps. of the univ. and of the Commonwealth dept. of health deals with all matters of policy. The staff consists of a dir. (also prof. of prev. med.), a prof. of trop. med., 11 med. officers, and a number of visiting lectrs., 4 entomologists, 4 parasitologists and 11 technical officers. The DPH entry requirements are

those of the General Medical Council of Gt. Britain, the DTM&H courses correspond to similar courses at the London Sch of Hygiene and Trop Med and the Liverpool Sch of Trop Med. The main divisions of the school are those of pub health and prev med, trop med and hyg, indust hyg, bacteriol and pathol, parasitol, and protozool, med entomol, vital stats, child health and environmental health. Library of about 15,500 vols, dealing espec in trop med and hyg, is available.

In the univ grounds is the TEACHERS' COLLEGE, a branch of the state dept. of educ. The courses leading to the univ postgrad dipl in educn (DipEd) are arranged through co-operation between the staffs of the univ and the coll. THE COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION (CSIRO) National Standards lab, situated in the univ grounds. Close collaboration in res activities exists between many univ depts. and relevant divisions of the CSIRO. This applies particularly in agric., biochem, bot, zool, vet. physiol, electr. engin. and chem engin. At the McMaster animal health lab., div of animal health and production, CSIRO, facilities are available for res. in parasitol., bacteriol. and biochem. The McMaster field station (800 acres), attached to the same div, adjoins the univ McGarvie Smith animal husbandry farm (see above). It is equipped primarily for investigations in genetics and reproductive physiol. in sheep and cattle under field conditions. In the dent. hosp bldg. is the inst. of dent. res., which was establd. in 1946 for investigations into the causes and prevention of dent. caries. The inst. also does the routine pathol. work for the dent. hosp. The Queen Elizabeth II res. inst. for mothers and infants, which is in the univ grounds, was establd. in 1958 for investigation of the causes and prevention of illness and deaths of mothers and infants. The Syd group of the Radio Res Bd is under supervision of prof of electr. engin. The group's main field of res. is study of ionosphere.

ADMISSION. See Appendix III. It should be noted that admission to the fac. of med. at the present time is restricted to residents of NSW because of shortages in staff and accomm., but the situation is reviewed at the end of each yr.

NON-MEMBERS OF THE UNIVERSITY. In exceptional circumstances only, a person without matric may be given permission by fac. concerned to attend lectures upon payment of necessary fees.

PUBLIC EXAMINATIONS See Appendix III

FIRST DEGREES 1 yr (after completing 3 yrs in med.)—BSc(Med) pass, hons., 3 yrs—BAgr pass (no hons.), BA pass (4th yr for hons.), BEc pass (4th yr for hons.), BPharm pass (4th yr for hons.), BSc(GenSc) pass (no hons.), BSc pass (4th yr for hons.), 4 yrs—BScAgr pass, hons., BEd pass (no hons.), BE pass, hons. (aeron., chem., civil or mining engin.), BE pass (electr. or mech.

engin.) (5th yr for hons.), BScChemEng pass, hons., BScFor pass (no hons.), LLB (full-time) pass, hons., BMus pass, hons., 5 yrs—BArch pass, hons., BDS pass, hons., LLB (pt-time) pass, hons., BVSc pass, hons., 6 yrs.—MB BS pass, hons., 2 yrs' advanced study or res. (for persons aged 21 yrs or upwards whose general educn and sp. qualif. for advanced study and res. have been approved by fac. concerned)—BA or BSc. Matriculated students who have completed 7 specified courses for BA and fulfilled all requirements for DipSocWk may qualify for pass BA and Dip SocWk in 4 yrs. The LLB qualifies conditionally for admission to the Bar. Law students may take the BA first, selecting law subjects in 3rd yr., and complete combined course in 6 yrs, thereby gaining concessions in regard to periods of studentship and service as articulated clerk.

In general, candidates for hons. are required to do extra work except in the facs. of law, med., dent., vet. sci. and archit., in which hons. are awarded on the pass work of the whole course.

There are hons. schools in the following subjects: BA—(a) [ordinary hons. degree] Greek, Latin, classics, Engl., French, German, Italian, Chinese, Japanese, Indonesian & Malayan studies, hist., philos., govt., psychol., educn., econ., anthropol., pure maths., appl. maths., mathl. stats., geog., music and archaeol., (b) [in sch. of soc. sci.] hist., philos., govt., psychol., educn., econ. and anthropol. BSc(Med)—anat., histol. & embryol., biochem., physiol., bacteriol., pathol. and pharmacol. BSc—chem., inorg. chem., org. chem., phys. chem., agric. chem., phys., geol., geophys. with geol., geog., psychol., bot., zool., physiol., biochem., anat., pure maths., appl. maths., pharmacol. sci. and analysis of foods and drugs, microbiol., phys., phys. anthropol., pharmacol. and mathl. stats. BScAgr—agric. chem., agric. econ., agric. entomol., agric. genetics, agric. microbiol., agron., animal husb., gen. agric., plant pathol., soil sci. and agric. bot. BEc—econ., econ. hist., govt., econ. stats. and accounting.

The BA, LLB, BSc(GenSc) and BEc may be taken solely by pt-time attendance, the BA and BEc solely by cvg attendance.

HIGHER DEGREES. When the 1st degree is awarded with hons., the period necessary to qualify for a higher degree is reduced in some cases as indicated. Div. (Bd), 3 yrs from 1st degree. Master's degree agric. (MScAgr), 2 yrs (pass), 1 yr (hons.) from BScAgr, 3 yrs from BAg, archit. (MArch), 3 yrs (or 2 yrs' advanced study and res.) from BArch, arts (MA with or without hons.), 3 yrs. (pass), 2 yrs. (hons.), (MA with hons.), 1 yr (hons.) from BA, dent. (MDS), 2 yrs. (pass), 1 yr (hons.) from BDS, econ. (MEc), 2 yrs from BEc; educn. (MED), 5 yrs from 1st degree, engin. (ME), 4 yrs. (pass), 3 yrs. (hons.) from BE or BScChemEng, (MEngSc), 2 yrs. (pass), 1 yr (hons.) from BE or BScChemEng, law (LLM), 2 yrs from LLB; pharm. (MPharm), 2 yrs from 1st degree, 1 yr. from BPharm with hons., sci. (MSc), 2 yrs. (pass), 1 yr. (hons.) from BSc, surg. (MS), 5 yrs. from

MB*BS, town & country planning (MTCP), 1 yr after award of DipTCP (2 yrs); vet sci (MVSc), 2 yrs from BVSc Doctorates (except PhD), provided that (in 1962 and 1963) 8 yrs have elapsed since matric in the fac concerned, (after 1963) 8 yrs have elapsed since award of degree qualifying for candidature, except DD, for which candidates must be of 5 yrs' standing from BD; agric (DScAgr), 5 yrs (pass), 4 yrs (hons) from BScAgr, dent (DDSc), 4 yrs from BDS, div (DD), 5 yrs from BD, engin (DSEng), 8 yrs (pass), 7 yrs (hons) from BE or BScChem Eng, law (LLD), hon and earned, 2 yrs from LLB, letters (DLitt), hon and earned, 8 yrs from 1st degree in arts, med (MD), 5 yrs from MB, sci (DSc), hon and earned, 8 yrs (pass), 7 yrs (hons) from BSc, vet sci (DVSc), 2 yrs from BVSc. After graduation, an approved candidate may proceed to the PhD in all facs (except law and med.) which takes 3 yrs from 1st degree (see below, 'Postgraduate Study').

All higher degrees (except DLitt, DD, MB and MVSc) are open to grads of other approved univs. Courses of instruction for BD, MED and MTCP and facilities for res for PhD and all degrees of master (except MS) are provided. Grads of other univs who are candidates for PhD or any master's degree (except MS) may be required to attend courses of instruction in addn to undertaking supervised res which must be carried out at Univ of Syd.

Except for MEngSc and PhD, grads of Syd Univ are not required to carry out, within Syd Univ, the res for above higher degrees. The res for MEngSc and PhD must be carried out within Syd Univ.

DIPLOMAS *Postgraduate* agric, by exam & thesis, open to grads who have completed courses acceptable to fac, 1 yr—(DipAgrChem), (DipAgrEc), (DipAgrEnt), (DipAgrGen), (DipAgrMicro), (DipPIPath), (DipAgrSc), (DipAnHus), (DipPHus), (DipDHus), educn (DPEd), which may be taken also in the teaching of English as a foreign lang, by exam, open to grads in any fac, 1 yr, dent (DPHDent), by exam and thesis, open to grads of 1 yr's standing who have completed courses acceptable to fac of dent, 1 yr, numerical analysis & automatic computing (DipNA&AC), by exam, open to grads who have completed maths. II (pure & appl), 1 yr, psychol. (DipPsychol), by exam, open to grads with hons or equivalent in psychol who have completed approved work in abnormal psychol, 2 yrs, medical, by exam after completing prescribed course, open to qualified med practitioners who have had specified general and special experience—anaesthesia (DA), 6 mos, clin pathol (DCP), 13 mos; dermatological med (DDM), 10 mos, gynecol and obstet (DGO), 6 mos, laryngol and otorhinol (DLO), 6 mos; ophthalmol (DO), 6 mos, pub health (DPH), 1 yr, psychol med (DPM), 15 mos, diagnostic radiol. (DDR), 1 yr, therapeutic radiol. (DTR), 1 yr, trop med and hyg (DTM&H), 5 mos. *Not restricted*

to graduates: anthropol (DipAnth), grads, by thesis within 3 yrs or such longer period as approved by fac, non-grads, by exam and thesis within 5 yrs., social work (DipSocWk), by exam, 3 yrs (2nd-yr status may be granted to candidates who have completed 5 specified courses towards BA); town and country planning (DipTCP), by exam, 2 yrs. Where applicable all dipls. are open to grads of any approved univ.

POSTGRADUATE COURSES NOT LEADING TO A QUALIFICATION Dept of German course in mod German poetry for hons grads fortnightly throughout yr. Dept of med course of 10 sessions in clin respiratory physiol in June/July and course of 12 sessions in liver dis in June/Aug. Dept of surg course in advanced surg in conjunction with Royal Aust Coll of Surgeons in March/April, wkly surg seminars at Royal Prince Alfred Hosp in March/Oct, course in cardiac aetiol and its management in June. Postgrad cttee in dent sci, cttee for postgrad studies in dept of law and postgrad cttee in med conduct regular courses in selected fields throughout yr for which printed prospectuses are available. Extension bd and dept of archit sci refreshes course in archit sci in Sept/Nov.

POSTGRADUATE STUDY AND RESEARCH FACILITIES The univ offers postgrad courses for dipls in educn, numerical analysis & automatic computing, psychol, pub health dent and in those fields in agric and med specified above under the heading 'Diplomas—Postgraduate'. The usual facilities for postgrad res are provided in the various depts, and candidates may proceed to the master's degree in most facs and to the PhD in the facs of arts, sci, engin, dent, vet sci, agric, econ and archit after completing at least 2 yrs supervised res. The univ publishes annually a statement entitled *Research and Scholarship* which sets out particulars of the res completed and in progress in the different depts.

RECOGNITION OF STUDIES ELSEWHERE The professorial bd grants proper status to persons who have completed part or all of a degree course in other univs.

STUDY LEAVE 1 yr on salary after completion of 6 yrs' service for full-time permanent members of teaching and certain st members of admin staffs, leave is not accumulative. Addnl leave may be granted without salary. Leave may be granted with salary at the equivalent rate of 1 term for each 2 yrs of service, e.g. after 6 yrs, since the last period of leave with salary, a term's leave with salary may be granted and leave entitlement retained for the remaining 4 yrs of service. Certain travel allowances are granted.

FEES Higher degree fees master's, £A15, doctorates, £A20. Degree of bachelor (incl matric and degree fees) sci (med.) (following min of 3 yrs in med), £A108—1 yr, music (following 2 yrs in arts), £A216—2 yrs, pass courses in arts, sci, gen sci, agric and econ, £A324—3 yrs, pass courses in educn, law,

engin (except civil) and agric sci, £A432, in engin (civil), £A398, hons courses in arts (1 or 2 schs), sci and pharm, £A432-4 yrs., pass courses in law, dent and archit, £A540, in vet sci, £A476, in econ (pt-time), £A375, hons courses in arts (2 schs) and engin (mech), £A540, in engin (civil), £A504-5 yrs., in med, £A576-6 yrs. *In addition to above fees:* hosp fees—med, 4th yr, £A31 10s, 5th yr, £A23 15s, 6th yr, £A4 10s, 'dent, 2nd yr to 5th yr (incl), £A18 p a, farm residence, vet sci, 5th yr, £A24. Compulsory subs to S.R.C. unions and sports unions 1 yr—men, £A16 7s, women, £A10 7s, 2 yrs—m. £A27 14s, w £A20 14s, 3 yrs—m £A39 18s, w £A31 18s, 4 yrs—m £A50 8s, w £A41 8s; 5 yrs—m £A61 15s, w £A46 15s, 6 yrs—m £A69 2s, w £A51 2s

ACADEMIC YEAR March to Nov 3 terms of 9 wks each

VACATION COURSES Short bridge course in maths in Feb as intro to maths I for students who have passed in gen maths. at matric. level, short intro course in phys in Feb for students who have not previously studied phys, conversion course in phys in Jan for students who have completed phys I and wish to proceed to phys II (dist.), post-coll course for teachers of French in Jan, refresher course for sch teachers of German in Jan, seminar for music teachers and members of public conducted by dept. of music in May, summer sch for phys sch teachers in Jan, summer sch. at postgrad. level conducted by fac of law in Jan, seminars on advanced topics in dept. of mech engin in May, ocesal courses at postgrad level in civil engin and in geol. & geophys Extn bd (with dept of zool) 2 field courses in animal ecol at Crommelin biol field stn in May, (with dept of archit sci and Timber Devel Assocn.) course on timber engin in May Dept of tutorial classes 2 one-wk residential liberal studies courses for indust execs in Feb, May and Aug, in conjunction with WEA, 10 days' summer sch at univ (part residential), residential week-end courses throughout yr and 10 days' courses in Dec./Jan for class students and gen public at WEA sch, Newport, nr Sydney St Andrew's Coll. course on mod theol and philos devals in July Sch of pub health and trop med vac courses vary with demand, e.g. in 1961, course in indust hyg for med practitioners, one for sch med officers and one on mosquito control for health personnel Another course of 30 lectures in trop med and hyg for missionaries, planters, nurses, etc, held annually during term.

PRINCIPAL 'OPEN' AWARDS for candidates at N.S.W. leaving cert exam *Scholarships*—Commonwealth govt scholops (see pp 12-13) tenable for normal period for first degree to all Australian univs (934 awarded to Sydney Univ for 1961), James Arken (2), £A50 for 1 yr. in any fac, Bowman-Cameron, £A50 p a for 3 yrs in arts, Martin McIlraith (2 vet sci, 2 agric, preference

to ex-servicemen or their sons), £A75 each for 1 yr, Queen Victoria (for best girl matriculant needing financial assistance), £A20 p a for 3 yrs in any fac., Robert Campbell (preference to necessitous child of member of A.I.F., 1914-18), £A50 p a for 2 yrs in any fac., Barker No III, £A50, and Horner exhibition, £A10, for 1st-yr course in maths, in arts, sci or engin, L'erside (2), £A37 10s each for 1st-yr course in chem, (L.C. and special paper)—Cooper No II, £A50 for 1st-yr courses in Latin and Greek, Garton No III, £A42 10s for 1st-yr course in French, Lithgow, No I, £A35 for 1st-yr course in German, Plumman scholop, £A70 for 1 yr in sci, Gowne scholops (4 for members of forces on active service, 1939-45 war, their children or grandchildren), £A75 p a for normal period of course Bursaries (42) awarded under Bursary Endowment Act, 1912, to Commonwealth scholars £A65 p a (for students living at home), £A104 p a (for students living away from home), with allowance for text-books not exceeding £A10 p a in each case, tenable for normal period of course, subject to financial circumstances, a limited number of privately endowed bursaries for promising but necessitous students, £A25-£A50 p a, with or without remission of lecture fees, awarded annually Univ grants remission of hall lecture fees for students sponsored by Soldiers' Children Educ Bd (N.S.W. Repatriation Dept) and bd pays all other fees Sydney Legacy War Orphans' Fund covers all fees for students sponsored by Legacy Club of Sydney. Interest-free loans, repayable within 2 yrs of graduation, may be granted from S.R.C. bursary & assistance fund to final-yr students in financial need

PRINCIPAL 'OPEN' POSTGRADUATE AWARDS A.E. & F.A.Q. Stephens postgrad res fellowship, £A850 p a, tenable by a grad of any univ except the Univ. of Syd for 1 yr (may be renewed for 2nd yr) for postgrad work within the Univ of Syd in any fac H.B. & F.M. Ginton postgrad res scholops. (2), sr grade £A1150 p a, jr. grade £A850 p a., tenable for up to 2 yrs by grads of any univ within British Commonwealth or by grads. of any univ who are British subs, for postgrad study within Univ. of Syd in chem in relation to industry and agric Commonwealth postgrad res. studentships (applicants must be domiciled in Aust) and univ res grant studentships, £A900 to £A1000 p a (to £A1050 p a in sp circumstances), tenable by grads or graduands of any Aust or overseas univ for 1 yr (may be extended for 2nd, 3rd or 4th yr) for postgrad work within Univ of Syd in any fac F.H. Loxton postgrad studentships or scholops (3, i.e. 1 in each of agric, chem, engin, vet sci), studentship £A1000 to £A1500 p a, scholop £A1600 to £A2075 p a, tenable by male grads of any univ for 1 yr (may be extended for 2nd, 3rd or 4th yr) for postgrad res within Univ of Syd

There is a PUBLIC RELATIONS AND INFORMATION OFFICE.

APPOINTMENTS BOARD (incl. 68 1720) Assists grads and undergrads to secure permanent, temp and part-time appts and makes careers information available to all students. The bd also collaborates with the extension bd in arranging lectures for business executives.

GRADUATES' ASSOCIATIONS Chemical Soc., Dental Alumni Soc., Sydney Assoc. of Univ. Teachers, N.S.W. Assoc. of Univ. Women Graduates, Univ. Club (for men), Newman Assoc. of Catholic Graduates, the Kabeiroi of the Univ. (dining club for male grads and undergrads), Soc. for Experi. Biol. of N.S.W., Arts Assoc. (for grads and other interested persons), Economics Graduates' Assoc., Chem. Engin. Assoc., Civil Engin. Graduates' Assoc., Electr. Engin. Soc., Musical Soc. (grad group).

RESIDENCE. The 6 halls within the univ. (see p 92) provide accomm. for the no. of students indicated. St Paul's Coll., 145, fees £A240 p a, St John's Coll., 110, fees £A240 p a, St Andrew's Coll., 155, fees £A270 p a, Wesley Coll., 160, fees £A256 p a, the Women's Coll., 144, fees £A263 10s p a, Sancta Sophia Coll., 96, fees £A240 p a. Tuition, supplementary to univ. lectures and classes, is given in the halls. Most of the tutors are members of the univ. staff, some are resident in the halls but all are available to students for personal consultation. Students need not reside in one of the halls.

STAFF RESIDENCES. There are no permanent residences controlled by the univ. for members of teaching staff. The univ. has, however, arranged with its bankers for larger advances than are normally granted on mortgage to be made to male married members of permanent teaching and admin. staffs for purchase of houses as approved by the univ. and its bankers. The bank advances up to 90 per cent. of approved purchase price and the univ. guarantees 25 per cent. of repayment of purchase price of houses bought under this scheme.

ADULT EDUCATION. Univ. extension lectures arranged by the extension bd. are given in courses from 3 upwards. Tutorial classes are provided, as prescribed by the act of 1912, under the superintendence of a jt. cttee. of the univ. and the W.E.A. of N.S.W.

UNIVERSITY MILITARY AND AIR FORMATIONS The Sydney Univ. Regiment is organized along the lines of a pentropic infantry bn but with a sp. component for officer trg. It forms part of the citizen military forces, C.O. Lt.-Col. K. G. Mosher, OBE, ED, BSc HQ SUR Trg. Depot, Univ. (tel. 68 3024). The Sydney Univ. Squadron, a citizen air force unit of the R.A.A.F., gives undergrads an opportunity to do officer trg. which, in accordance with their academic quals., will fit them for service as officers on the permanent air force or the reserve. The sqn incl. undergrads apptd. to commissions in the permanent air force C.O. S/Ldr.

J. L. Ingate HQ Dymock's Bldg., 428 George St., Sydney (tel. BL4381).

STUDENTS' ATHLETIC FACILITIES For men and women athletics, badminton, basketball, cricket, fencing, golf, gymnasiums, hockey, judo, skiing, squash, racketball, swimming, table tennis, tennis. For men baseball, boxing, football (rugby union, Aust. rules, soccer), rifle shooting, rowing, volley ball, water polo, weight lifting, wrestling. For women softball.

STUDENT HEALTH SERVICE Free diagnostic health service is available for students.

STUDENTS' REPRESENTATIVE COUNCIL comprises reps. of men and women day students in the several facs. (elected by ballot), 10s. of evg. students' assocn. (chosen by assocn. cttee), 4 pres. and other officers (chosen by these 10s.). The S.R.C. conducts the affairs of the student body and represents it generally, makes representations to the univ. on behalf of the student body or student soc., and has certain disciplinary powers subject to approval of vice-chancellor. All students must pay membership fee of £A1 7s (tel. 68 5051).

UNIVERSITY UNIONS The unions are an integral part of the univ. Sydney Univ. union (for men), founded in 1874, as a debating soc. Dining-rooms (public and private), reading-rooms, common-rooms, billiards-room, library, mercery dept. and bank agencies, union theatre under construction. Fees: £A5 entrance fee and annual sub., £A4, for all matriculated men students, life membership (grads), £A25. Sec. I. A. Ramage, BEc. Sydney Univ. women's union, founded in 1914. Premises, Manning House. Dining-rooms, common-rooms, study-room, stationery shop. Fees: £A6 annual sub. for all women students enrolled in a course, life membership (grads), £A25. Sec. Beryl E. Stevens, BA DipEd.

PUBLICATIONS *Calendar*, with annual report, 7s. 6d., *Handbooks* of the facs. of arts (annually), dent. (biennially), sci. (annually), 4s. 6d. each, fac. of econ. (biennially), dept. of town and country planning (biennially), 2s. 6d. each, and to the Nicholson museum of antiquities (o/p.), *Prospectuses* of the depts. of music, soc. work and tutorial classes, sch. of div. and extn. bd. (annually), annual exam. papers in scis., 2s., *Annual Reports* of appts. bd., extn. bd., cttee. for postgrad. studies in dept. of law, postgrad. cttee. in med., sports union (men's), women's sports assocn., Syd. Univ. union, women's union, jt. cttee. for tutorial classes. *Research and Scholarship* (annually), *List of Graduates* (every 5 yrs.), *Letter to Sydney Univ. Graduates from the Vice-Chancellor and Principal* (annually), *The Gazette* (quarterly), *Current Affairs Bulletin*, 28 vols. (fortnightly, ed. by dept. of tutorial classes), 6d. a copy or annual sub. 13s. 6d. to 26 copies, *Oceana*, 31 vols. (quarterly), £A2 10s. per vol. or 12s. 6d. a copy (vols. 1-22, £A1 10s., vols.

23-30, £A2), annual sub £A2 10s, *Aust Journal of Educn* (3 issues annually) (ed by dept of educn), 7s 6d a copy or annual sub £A1 1s, *The Sydney Law Review* (annually, under auspices of fac of law), £A1, *The Nucleus* (semi-annually), *George Judah Cohen Memorial Lectures* (biennially), *Todd Memorial Lectures* (frequency varies), 3s, *George Arnold Wood Memorial Lectures* (triennially), 3s, *Union Recorder* (weekly during term), *Bulletin of the Postgrad Citee in Medicine* (monthly), 3s 6d a copy or £A2 2s p.a., *Arts—The Proceedings of the Sydney Univ. Arts Assoc.* (frequency varies), 10s 6d a copy; *Apollonia* (annually) (journal of Dental Alumni Soc.), *Birdcall* (St Andrew's Coll periodical) (3 times p.a.), *Mamma* (journal of Newman Assocn) (annually), 4s, *The Univ of Sydney, A Description*, 5s, *The Univ of Sydney Centenary Celebrations, 1952, 15s*, *The Union Book of 1952* (commemorating the centenary of the univ), £A1 1s, H E Berff, *A Short Historical Account of The Univ of Sydney, 1852-1902* (o/p, but some copies available at univ), *One Hundred Years of the Fac of Arts* (Angus & Robertson, 1952, o/p), *The Jubilee Book of the Law Sch*, 1890-1940 (o/p, but some copies available at Law Sch), 5s, W Vere Hole & Anne H

Treweeke, *The History of The Women's Coll*, 1880-1953, 17s 6d Students' publications *Hon Sout* (weekly during term), *Innominate* (med) (twice a term); annually *Orientation Handbook*, *Tyticum* (agric), *Ana, Hermes* (arts), *Articulator* (dent), *Economic Review*, *Journal of the Sydney Univ Econ Soc*, *Engineering Yearbook*, *Blackacis* (law), 5s, *Oondooma* (geog soc), *Senior Yearbook—Sydney Univ. Medical School*, *Sydney Univ Medical Journal*, *Science Yearbook*, *Centaur* (vet sci), *Vespers* (evg students' assocn), *St Andrew's Coll Magazine*, *Johns* (St John's Coll), *Pauline*, *Yakkas* (St Paul's Coll), *Mens Earlem* (Sancta Sophia Coll), *Wesley Coll Journal*, *Sydney Univ Women's Coll Magazine*, *Sydney Univ. Women's Coll Calendar*

UNIVERSITY BOOKSHOP In 1958 the Sydney Assocn of Univ Teachers and the Students' Rep Council sponsored the formation of Univ Co-operative Bookshop Ltd under the Co-operation Act of NSW. The co-operative operates 2 bookshops within the univ grounds and has branches in several other educnl instns. Its main purpose is to provide a service at low cost in educnl and tech books for students, teachers and other members

THE YEAR 1960

PRINCIPAL BENEFACTIONS Australian Consolidated Press Ltd, £A10,000, Broken Hill Pty Co Ltd, £A10,000, S E Chatterton, £A10,000 and W D & H. O. Wills (Aust) Ltd, £A10,000 for res in sch. of phys., A. Basser, £A10,000 for electronic computer in sch. of phys., US Dept of Health, Educn & Welfare, Maryland, £A11,313 for res in sch. of chem. Income from existing foundations (not included in total below) N Garland Trust, £A30,705 for encouragement of vet educn and res; I F McMaster Bequest, £A30,151 for CSIRO scholps and fellowships, Aldyth E Quaife Fund, £A19,965 for res in med. (Total value of all benefactions received. £A775,347).

MAJOR BUILDING DEVELOPMENTS. *Bldgs completed*: addnl floor in archit bldg for students' common-room, new dissecting-room in dept of anat, teaching dairy and extn to dairy res unit at Rural Vet. Centre, Camden, flat for vice-principal, St Andrew's Coll *Approaching completion*: Edgeworth David bldg comprising 4 floors to provide offices, labs, res and teaching facilities for student other than 1st yr in dept of geol. & geophys.; 5 students' rooms (St Andrew's Coll); common-room, library and 29 students' rooms (Wesley Coll), entrance hall, 20 students' rooms and 2 tutorial-rooms (Sancta Sophia Coll)

RETIREMENTS Res Prof V A Vailey (phys); Dr J. C. Belisario (dis. of skin), J N Chesterman (obstet), Prof L F Dods (child health); R B. C. Stevenson (obstet), Dr E S Wallace (dent.), F H H Wilson (med)

RESIGNATIONS Dr R B Blacket (med), apptd to chair of med, NSW, Mrs Eveline Bofinger (mathl stats); J D Butchart (asst registrar), apptd asst registrar, Monash, Dr P J Claringbold (vet sci), apptd sr principal res officer, div of animal genetics, CSIRO, Dr P. J. Coleman (geol. & geophys), apptd sr lectr in geol, W. Aust., Dr J C Craig (chem), apptd to chair of pharmaceut. chem, Calif., E W Hemingway (mech engin), apptd sr lectr in mech engin, W Aust., Dr A J Herz (phys), apptd sci dir of high-energy group, Inst Nazionale di Fisica Nucleare, Milan, Dr J D. Keehn (psychol.), Dr R M Kirkpatrick (dent), Assoc Prof P I Korner (physiol.), apptd to chair of physiol, NSW, F G Larmine (geol & geophys), apptd to post in indust, M W Low (civil engin), to private practice, Dr J J Mahony (aeron engin), apptd reader in appl maths, W Aust., G Mumford (dent), apptd assoc prof of dent materials, Indiana; Prof. P D F Murray (zool), apptd reader in zool, NE, Dr K W Ogilvie (phys), apptd to staff of Natl Aeron & Space Admin, USA; Dr J S Pate (bot), apptd lectr in plant physiol., Belf., Dr H. W. S Philp (educn), apptd diu., Internat Inst. for Child Study, Bangkok, N J B. Plomley (anat.), Dr V. Politi (Ital), apptd head of Italian Inst. of Culture, Melbourne, L C A Watson (med), apptd sr res worker, metabolic unit, Univ Coll Hosp, Lond., Dr K C Westford (appl. maths.), apptd chair of maths., Monash; Dr H G Wilshe (geol. & geophys), apptd visiting fellow in geophys., ANU

DEATHS. Dr G Builder (sr lectr in phys), Emer. Prof. C E Fawcett (prof of chem, 1909-1945), Dr N E Goldsworthy (lectr in dent bacteriol), E M Higgins (asst dir, dept of tutorial classes), Emer Prof W K Inglis (prof of pathol, 1936-52), A B Powe (sr lectr in Latin), Dr J. H Wilson (lectr in prosth dent. & partial dent construction), J M Yeates (tutor in surg)

HONORARY DEGREES *DSc*—Prof T. Dobzhansky, Da Costa prof of zool, Col, Sir Robert Robinson, formerly prof of org chem (pure, & appl), Syd, and Waynflete prof. of chem, Oxford

Statistics

STUDENT NUMBERS, 1961

(as at the beginning of the academic year)

	Full-Time	Part-Time*
Men	6858	2058
Women	2569	1042
Total	9427	3100

Distribution by Faculties *Agric*, 291, *archit*, 251, *arts*, 3773, *dent*, 301, *div*, 4, *econ*, 849, *educn*, 6, *engin*, 934, *law*, 793, *med*, 2175, *music*, 3, *placm*, 448, *sci*, 1434, *vet sci*, 294 Others *anthropol* (DipAnth), 4, *educn* (DipEd), 209, *numerical analysis & automatic computing* (DipNA&AC), 12, *psychol* (DipPsychol),

6, *soc. stud* (DipSocStud), 2, *soc work* (Dip SocWk), 67, *town & country planning* (Dip TCP), 74, *students studying under regns of Aust Coll of Speech Therapists*, 20, *Aust Physiotherapy Assocn*, 82, *Pharmacy Bd of NSW*, 495 Total. 12,527

Included in the figures above are —

Postgraduate students, 899

New admissions, 3309

Students from other countries, 1129 (Countries from which largest numbers came Fed of Malaya, 373, Hong Kong, 254, Singapore, 187, NZ, 61, Indonesia, 43; Fiji, 33, N. Borneo, 27, Thailand, 22)

DEGREES AWARDED (1960) *Agric* BAgr, 3; BScAgr, 41, MScAgr, 6, *Archit*, BArch, 18; MArch, 1; MTCP, 1, *Arts*, BA, 393, MA, 11, *Dent*, BDS, 43, MDS, 10, *Econ* BEc, 54, MEC, 3, *Educn* MED, 11, *Engin*, BE, 79, MEngSc, 7, DScEng, 1, *Law* LLB, 82, LLM, 1, *Med* MB, 192, BS, 195, MD, 2, BSc(Med), 16, *Musn*, BMus, 2, *Sci* BSc (GenSc), 32, BSc, 143; MSc, 24; BScFor, 4, *Vet sci*, BVSc, 31, MVSc, 2, PhD (all facs) 30. Total number of first degrees awarded, 1328

DIPLOMAS AWARDED (1960) DipAgrEc, 1, DipEd, 146, DA, 1, DCP, 2, DDM, 5, DDR, 1, DGO, 1, DLO, 1, DO, 2, DPH, 4, DPM, 3, DTM&H, 10, DipSocStud, 13, DipTCP, 15

* Part-time is defined in the way recommended by the Australian vice-chancellors' cttee

UNIVERSITY OF TASMANIA *

Founded 1890

Postal Address Box 252 C, G.P.O., Hobart, Tasmania, Australia

Cables and Telegrams: University, Hobart

Telephones. Hobart 27741

VISITOR—H E. THE GOVERNOR OF TASMANIA

CHANCELLOR—The Hon. Sir HENRY S BAKER, KCMG, DSO, LLM

DEPUTY CHANCELLOR—A. W KNIGHT, CMG, MB BSc BCom

VICE-CHANCELLOR—K S ISLES, MA MSc Camb

REGISTRAR—A S PRESHAW, BA W Aust., FCIS

LIBRARIAN—D. H. BORCHARDT, MA NZ

TEACHING STAFF

[†=Part-Time]

Accountancy, see Comm.

Agriculture

Botany

Barber, H N., MA Camb, PhD Lond,

FAA

Curtis, Winifred M., MSc PhD Lond,

FLS

Jackson, W D, PhD

Crowden, R. K., BSc

1 Demr.

Chemistry

Bloom, H., MSc Melb., DIC, PhD Lond, Prof

Polya, J. B., DiplIngChem DScTech Ztir.,
DSc, FRIC Assoc. Prof.

Bick, I. R C, BA MSc Q'ld, PhD Camb

Kelly, F. H. C., MSc Melb., DSc, FRACI

Friend, J. A., MSc Syd., PhD Camb

Cheesman, G. H., DIC, BSc PhD Lond.,

FRIC

Roberts, N. K., BA W Aust., BSc PhD

4 Demrs.

Classics

Elliott, J. R., BA Syd., MA DipClassAthens

Camb.

Waters, K. H., MA Camb.

Hood, R. G., BA Melb.

Commerce

Firth, G G, BSc(Econ) Lond

Grant, J. McB, MEc Adel, DipEcon Camb

(Appl. Econ.) Prof.

Dallas, K. M., BCom

Hagge, A. J., BCom Melb., PhD Lond.

Vout, A. W., BEc

Nichols, W E, BCom

Dunn, L J, BCom

Reader

Lectr.

Lectr.

Lectr.

Education

Hardie, C. D., MA Camb

Doe, T. E., BSc Supervisor of Pract. Teaching

Collins, T G, BSc DipEd

Perkins, W H, BA DipEd

Chappell, F. R., MA Camb., DipEd Lond

Porter, R C, BA DipPhysEd Syd

Horsfall, Margaret L O, BA

DipEd W.Aust

Wilmot, Mrs Charlotte M, DipEd

DipPhysEd Syd, BA

Mahoney, D. P D, BEc Melb, BSc

.. . . .

(Music) Lectr

Engineering

Oliver, A. R., ME Adel.

Newstead, G. H., MEE Melb

Burrell, G. J., BE(Mech) N.Z

Trott, S M., BSc

Brownell, C D, BE

Gregory, M S, BE

Beresford, J E, BE

Reynolds, G C, ME Adel.

* Member of the Association of Universities of the British Commonwealth

TASMANIA

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Brodie, J. H., BSc BE *Syd*
 Lilley, E. M., BA *Oxon*, BSc

Lectr. Uiquhart, M. L., BSc
 Lectr. Pitman, E. J., PhD *Syd*, BA
 †Lectr. Hasofer, A. M., BE *Farouk*, BSc Temp. Lectr.

English Language and Literature

Harwood, F. W., MA *Melb*
 McAuley, J., MA *Syd*
 Stokes, E., MA *Syd*
 Porteous, A., MA *Edin*
 Hergenhan, L. T., MA *Syd*

Prof.
 Reader
 (Poetry) Reader
 Sr. Lectr.
 Lectr.
 Lectr.

Modern Languages

Smith, I. H., BA *Melb*, *DUParis*
 Batt, Jean C., BA
 St Leon, R. P. F., MA *Syd*
 Smith, Mrs Sybil, MA *Syd*
 Smith, V. B., MA

Prof.
 Sr. Lectr.
 Lectr.
 Lectr.
 Lectr.

Geography

Scott, P., MSc(Econ) *Lond*
 Davies, J. L., MA *Wales*
 Solomon, R. J., BA *Syd* & *Oxon*

Prof.
 Sr. Lectr.
 Lectr.

Philosophy

Milanov, K., PhD *Berl.*

Prof.
 Sr. Lectr.
 Lectr.

Geology

Carey, S. W., DSc *Syd*
 Banks, M. R., BSc *Syd*
 Spry, A. H., MSc *Adel*
 Green, R., BSc *Q'd*, PhD *A N U*
 Solomon, M., BSc *Lond.*, MSc
 i Demr.

Prof.
 Sr. Lectr.
 Sr. Lectr.
 Lectr.
 Lectr.

Physics

Ellis, G. R. A., BSc PhD
 Cruickshank, F. D., DSc
 Fenton, A. G., PhD *Birm.*, BSc
 Buchdahl, H. A., DSc *Lond.* & *Tas.*
 Scott, B. I. H., BSc PhD
 Fenton, K. B., BSc PhD
 i Demr.

Prof.
 Assoc. Prof.
 Reader
 Reader
 Sr. Lectr.
 Lectr.

History

Pike, D. H., DLitt *Adel*
 Wilson, G. T. J., MA *Camb* & *N Z*
 McRae, M. D., BA
 Roe, O. M., BA *Camb*, MA *Melb*,
 PhD *A N U*
 Green, L. F., BA *Q'd*

Prof.
 Sr. Lectr.
 Lectr.
 Lectr.
 Lectr.

Political Science

Townsend, W. A., BA *Birm.*, DipEd *Lond*,
 MA
 Lithgow, G., MA *Glas*, BA *Oxon*
 (Pub Admin)
 Tripp, M. L., DrPhil *Zür*, JD *Chic*
 Wettenhall, R. L., MA DipPubAdmin*

Prof.
 Lectr.
 Lectr.
 Lectr.

Law

Dunbar, N. C. H., LL.M. *Sheff.*, JSD *Yale*
 Higgins, P. F. P., LL.B. *Lond*
 Scott, M. F. C., MA *Camb*
 Harari, A., MJur *Jerusalem*, PhD *A N U*
 Howard, M., LL.M. *Birm.*
 Nygh, P. E., LL.B. *Syd.*

Prof.
 Sr. Lectr.
 Sr. Lectr.
 Sr. Lectr.
 Lectr.
 Lectr.

Psychology

Cardno, J. A., MA *Aberd.* & *Camb*
 Kruup, K., DrMed *Freib*, BA DipEd
 Cooper, Miss D. D.

Assoc. Prof.
 Lectr.
 Lectr.

Zoology

Clark, A. M., MSc *Melb*, PhD *Camb*

Ralston Prof.
 Sr. Lectr.
 Lectr.

Mathematics

Pitman, E. J. G., MA BSc *Melb*, FAA
 Goddard, L. S., BSc *Syd*, PhD *Camb*.

Prof.
 Prof.

Gulter, E. R., BSc *Belf.*, PhD
 Hickman, J. L., BSc
 i Demr.

ADMINISTRATIVE AND OTHER STAFF

UNIVERSITY OFFICE. Bursar: G. B. Harrison,
 FASA Asst. Registrar: D. A. Kearney, LLB
 Asst. Accountants: G. T. Briggs, BCom.,
 E. A. R. McNeil Admin Assts. K. R. Skinner,
 B.A. & E. Joyner, BA *Syd.* Chief of Exams:
 Linda E. Weidenhofer

LIBRARY. Dep. Librarian: Mis. Mary J.
 Marshall, BA.
 |STUDENT ADVISER: R. C. Porter, BA DipEd
Syd
 PHOTOGRAPHIC DEPT. TECHNICIAN: T. S.
 McMahon

AUSTRALIA

AFFILIATED RESIDENTIAL COLLEGES

CHRIST COLLEGE, Park St., Hobart (tel Hobart 24580) For univ and theol students only, fees, £A£80 p a Accommm, 36 Tuition given to theol students only Warden—Rev J L May, MBE, MA

HYTTEN HALL, University Grounds, Sandy Bay (tel Hobart 25534) For men; fees,

£A192 p a Accommm, 120 Warden—G T J Wilson, MA Camb & NZ

JANET FRANKLIN HALL, 308 Davey St., Hobart (tel Hobart 25728) For women, fees, £A184 p a Accommm, 40 Tutorials held in some subjs Principal—R Fleming, BEC DipEd Syd

AFFILIATED SCHOOLS

HOBART TECHNICAL COLLEGE, Bathurst St., Hobart (tel Hobart 23005). Principal—A. E. H. Griffiths, BSc(Eng)

LAUNCESTON TECHNICAL COLLEGE, Wellington

St., Launceston (tel : Launceston 22531) Principal—J W Faulkner, BCom DipEd.

MT. LYELL SCHOOL OF MINES AND INDUSTRIES, Sticht St., Queenstown (tel Queenstown 36). Registrar—H. V. Grecian.

GENERAL INFORMATION

Founded in 1890 under an act of the Tasmanian legislature, the univ was granted a royal charter in 1915. To the original facs—arts, sci and law—comm. was added in 1919, engin in 1922 and educn. in 1951 Teaching in agric begins in the near future Music was taught in the fac of arts from 1935 to 1938 but the lectureship has lapsed

CONSTITUTION The univ. consists of a council and convocation The council, which has the management and control of the affairs and property of the univ, consists of 19 to 21 members, 4 of whom are elected by the convocation, 3 by the teaching staff, 2 by members of parliament, 4 by the governor, and 3 by the governor on the recommendation of the council, the dir of education and the chairman of the professional bd. are *ex-officio* members The offices of chancellor and vice-chancellor may be filled by election by and from the members of council or by the appt. of persons not members of council. The governor is *ex-officio* visitor of the univ. The chancellor is elected every 2 yrs. and is a member *ex-officio* of every fac. and of every bd or cittee within the univ The vice-chancellor is the chief executive officer of the univ Convocation consists of all grads of the univ and members of council and teaching staff, its chief officers being the warden and vice-warden, who are elected every 2 yrs Its main functions are to elect members of council and of a standing cittee, which considers proposed new statutes or amendments to existing statutes The professional bd is the main academic body and exercises a general supervision over all matters concerning the studies and exams of the univ The facs exercise similar functions but are subordinate to the bd

INCOME (1959-60). £A617,337 (state govt grant, 56 per cent, Commonwealth govt grant, 33 per cent; fees, 9 per cent, misc, 2 per cent.)

FACULTIES AND DEANS (1962) Arts, Prof. J. R

Elliott (classics), comm., Prof. G. G. Firth, educn, Prof. C. D. Hardie; engin., Prof. A. R. Oliver; law, Prof. N. C. H. Dunbar, sci, Dr A. G. Fenton (phys)

UNIVERSITY PRECINCT The univ at present operates on 2 sites—Queens Domain and Sandy Bay. Bldgs. at present under constrcn. at Sandy Bay will on completion consolidate the whole univ. on that site.

LIBRARY 125,000 vols

LABORATORIES Bot., chem, engin. (civil, electr, mech), geol., phys, zool Testing plant in engin. dept

ADMISSION See Appendix III.

ADMISSION OF NON-MEMBERS. Any person, whether matriculated or not, may enrol for univ. classes provided he can satisfy prerequisites (if any)

PUBLIC EXAMINATIONS Matric., music (held in conjunction with other Australian univs) See also Appendix III.

FIRST DEGREES 3 yrs—BA (4th yr for honrs), BSc (4th yr for honrs), BEc (4th yr for honrs), 4 yrs—BE, BE (honrs), BFor, 5 yrs—LLB, LLB (honrs) Degree course in agric begins in the near future

Hons schs in following subjs BA—classics, Engl, French, German, hist, philos, pol. sci, psychol, BSc—bot, chem, geog, geol., maths, phys, zool., BEc—econ BE is gen engin. degree with specialization in final yr in chem, civil, electr or mech engin (in final yr honrs candidates do addnl work in chosen field and take addnl exam) Hons in law awarded for proficiency in pass course and on submission of satisfactory essay.

Degrees Completed Elsewhere. The univ. provides 1st yr of courses leading to degrees in med.,

dent and agric. sci (Adel or Melb), vet sci (Q'ld or Syd)

HIGHER DEGREES Open to bachelors of 1 yr's standing—MEngSc, 2 yrs¹—MA, MSc, LL.M., MEc, PhD (engin and sci), 3 yrs¹—PhD (arts), ME, 6 yrs¹—DSc, 7 yrs¹—DLitt, LLD, to masters of 3 yrs¹ standing—LLD. All higher degrees open to grads of other univs. DLitt, LLD, DSc also awarded as honorary degrees

DIPLOMAS Pub admin, 3 yrs, educn (postgrad), 1 yr

CERTIFICATES Educn, 2 yrs.

RESEARCH Facilities for postgrad res available in all facs. *Research Report* pubd annually

EVENING CLASSES Comm and econ students may gain first degrees by pt-time study. Sufficient evg courses also given in arts to enable pt-time students to complete BA or BA hon

STUDY LEAVE. Members of staff are eligible to apply for 1 yr's study leave on the termination of 6 yrs' service or 6 mos' study leave after 3 yrs

FEES Matric, £A3, *ad eundem statum*, £A2. Admission to degrees: bachelor's, £A5 5s., master's, £A15 15s., doctor's, £A26 5s., degree courses (full-time) in arts (3 yrs), £A170; arts (hons) (4 yrs), £A226, sci (3 yrs), £A235, sci (hons) (4 yrs), £A315, sci (appl) (4 yrs), £A293; engin (4 yrs), £A378, law (5 yrs), £A338, comm (3 yrs), £A198, econ (3 yrs), £A198; econ (hons) (4 yrs), £A254

ACADEMIC YEAR March to Dec. 3 teaching terms of 9, 10, 9 weeks respectively, and 1 exam term of 4 weeks

UNDERGRADUATE AWARDS 20 entrance scholcs, value £A26 p a plus refund cost of books, and travel allowance. Country students eligible to apply for boarding allowance. Up to 110 scholcs awarded by Cwth govt (see pp 12-13) value payment of fees, living allowance up to £A338 also payable subject to means test

POSTGRADUATE SCHOLARSHIPS AND GRANTS Res scholcs, £A800-£A1000, Commonwealth postgrad scholcs, £A800-£A1000, I C I A N Z res fellowship (from a grant made by the Imperial Chemical Industries of Australia and New Zealand Ltd), £A1100 p a, General Motors-Holdens scholcs, £A800-£A1200 p a, Australian Titan Products res fellowship in inorg chem, £A1200

APPOINTMENTS BOARD Establishment of appts. bd is provided for by statute, but operations are suspended

GRADUATES' ASSOCIATION Tasmanian Women Graduates' Assocn

STUDENTS' RESIDENCES See 'Affiliated Residential Colleges', above

STUDENTS' UNION. Tasmania Univ. Union.

PUBLICATIONS *Univ Calendar* (March, 10s), *Matriculation Manual* (March, 6s), *Details of the Ordinary Exams* (Oct, 3s), *Univ Gazette* (termly), *Univ of Tas Law Review* (annually, 10s 6d), *Research Report* (annually), students' paper, *Togatus* (monthly), *Report of 1955 Royal Commission on University of Tasmania*, Govt Printer, Hobart

THE YEAR 1960

PRINCIPAL BENEFACTIONS Total value of all benefactions received £A4480

MAJOR BUILDING DEVELOPMENTS Bldgs completed: engin *Approaching completion* chem, stage I of library

RETIREMENTS Prof E F Kiuth (chem), Assoc. Prof H P Tuck (electr engin)

RESIGNATIONS G L Frick (law), to private practice, P W Hughes (educn), apptd superintendent of curriculum res, educn dept, Hobart, A L LeQueune (hist), to sec sch teaching, England, Prof J McManners (hist), apptd prof of mod hist, Syd; D I D M Paton (bot), apptd as lectr in bot, A N U; Dr Wilms A Tucker (psychol)

DEATHS Prof F M Todd (prof of Engl, 1956-60).

Statistics

STUDENT NUMBERS, 1961

(as at the beginning of the academic year) *

	Full-Time	Part-Time	External
Men	556	394	62
Women	233	109	23
Total	789	503	85

Distribution by Faculties: Arts, 423; comm, 217, educn, 248, engin, 98, law, 86, sci, 305. Total 1377

Included in the figures above are —

Postgraduate students, 110

New admissions, 385

Students from other countries, 85 (Countries from which largest numbers came: Fiji, 21, Hong Kong, 15, Fed of Malaya, 9, India, 7, Vietnam, 6)

DEGREES AWARDED (1960) Arts BA, 56, BA (hons), 8, MA, 1, Comm BCom, 4, BEc, 8, BEc (hons), 3, Engin BE, 7, BE (hons), 3, Law LLB, 3, LLB (hons), 4, LL.M., 2, Sci BFor, 1, BSc, 25, BSc (hons), 14; MSc, 2, PhD (all facs) 2. Total number of first degrees awarded, 138

DIPLOMAS AWARDED (1960) DipEd, 31, DipPubAdmin, 11

CERTIFICATES AWARDED (1960) Educn, 34

AUSTRALIA

UNIVERSITY OF WESTERN AUSTRALIA*

Founded 1911

Postal Address : Nedlands, Western Australia

Cables and Telegrams Uniwest, Perth

Telephone Perth 86 2481 (11 lines)

VISITOR—H E. THE GOVERNOR OF WESTERN AUSTRALIA, Lt-Gen Sir CHARLES H. GAIRDNER,
KCMG, KCVO, KBE, CB, Hon DLitt

CHANCELLOR—Sir ALEXANDER J REID, CMG, ISO, JP, Hon LLD *Melb.* & *Q'ld.*, BA

PRO-CHANCELLOR—T. L. ROBERTSON, PhD *Lond.*, MA DipEd

VICE-CHANCELLOR—S L. PRESCOTT, OBE, MSc *Manc*

REGISTRAR—A J. WILLIAMS, BA DipEd

ACCOUNTANT—R M. FLETCHER

LIBRARIAN—L. JOLLEY, MA *Lond.*, FLA

TEACHING STAFF

[† = Part-Time]

Agriculture		White, D E., MSc <i>Syd.</i> , DPhil <i>Oxon.</i> , FRACI (Org. C) Prof.	
Underwood, E J., PhD <i>Camb.</i> , BSc(Agric), FAA	Prof., Dir (Soil Sci.) Prof	Cole, A R. H., DPhil <i>Oxon.</i> , BSc	Reader
Millington, A. J., DSc(Agric)	Reader	Elliot, G. A., MSc PhD <i>Lond.</i>	Sr Lectr
Schapper, H P., MCom <i>N.Z.</i> , PhD	Reader	Jeffries, P R., PhD <i>Sheff.</i> , MSc	Sr Lectr
Morr, R J., BSc(Agric)	Reader	Bevan, D J M., MSc <i>Melb.</i> , PhD <i>Lond.</i>	Sr Lectr
Loneragan, J F., PhD <i>Calif.</i> , BSc	Sr Lectr	Bottomley, G A., BSc PhD <i>Leeds</i>	Sr Lectr
Parker, C A., BSc(Agric) PhD	Sr Lectr	Cannon, J R., MSc <i>Melb.</i> , PhD <i>Camb.</i>	Sr Lectr
Mauldon, R G., MSc(Agric)			Sr Lectr
(Farm Management) Sr. Lectr		McLean, A D., BSc PhD <i>Chc.</i>	Sr Lectr
Gladstones, J. S., BSc(Agric) PhD	Lectr	Little, L H., PhD <i>Camb.</i> , MSc	Sr Lectr
4 Visiting Lectrs, 1 Lab. Manager, 13 Lab Techns., 12 Lab Assts, 9 Tech Assts		Levien, Barbara J., MSc <i>N Z</i>	Lectr
		Hewgill, F R., MA <i>Camb.</i> , PhD <i>Adel.</i>	Lectr
			Lectr
		1 Lab Manager, 7 Grad. Assts, 11 Lab Techns., 4 Lab. Assts	
Anatomy, see Medicine		Classics and Ancient History	
Biochemistry, see Medicine		Austin, M N., MA <i>Oxon.</i> , BD <i>Lond.</i>	Prof.
Botany		Weaver, P R C., MA <i>N Z</i> & <i>Camb.</i>	Sr Lectr
Grieve, B J., MSc <i>Melb.</i> , DIC, PhD <i>Lond.</i> , FLS	Prof	Jones, J. R., MA <i>Camb.</i>	Lectr
Brittan, N H., BSc PhD <i>Durh.</i>	Sr Lectr	Jory, E J., BA <i>Lond.</i>	Lectr.
Baird, Alison M., MSc	Sr Lectr	McGushin, P., MA	Lectr.
Smith, G. G., MSc	Lectr		
Johnson, Mrs Eileen-R. L., MA <i>Tor.</i> , BSc <i>Adel.</i>	Temp Lectr	Dental Science	
2 Visiting Lectrs, 1 Sr. Demr, 1 Grad Asst, 2 Lab. Techns., 2 Lab Assts		Sutherland, K J G., MB BS MDS <i>Melb.</i> , FDSRCSed	Prof.
Chemistry		Taylor, R. L., MDS <i>Syd.</i>	Reader
Bayliss, N S., CBE, BA <i>Oxon.</i> , BSc <i>Melb.</i> , PhD <i>Calif.</i> , FRACI, FAA		Cock, D J., MDS <i>Melb.</i>	Reader
(Phys C.) Prof., Chairman		Lewis, A J., DDS <i>Northwestern</i> , BDS	(on leave) Sr Lectr.
		Stevenson, T S., BDS	Sr Lectr

* Member of the Association of Universities of the British Commonwealth

Williamson, J. J., BSc Q'ld, FDSRCS
 5 Visiting Lectrs, 1 Grad Asst, 2 Techns,
 1 Photographer

Economics

Bowen, Y. I., MA Oxon Prof
 Lydall, H. F., BA S.A., MA Oxon (Comm) Prof
 Dowsett, W. T., MEd Syd Sr Lectr
 Gentili, J., DPolSc Univ Econ Inst (Venice),
 FRMetS (E Geog) Sr Lectr
 Harris, Meab, PhD Lond, MA Sr Lectr
 Oxnard, D. W., MA N.Z. Sr Lectr
 Kerr, A. McB., BSc(Econ) Lond, MA PhD Sr Lectr
 Subramaniam, V., BSc MA Madr, Sr Lectr
 PhD A.N.U. (Govt) Sr Lectr
 Cook, A., BA Sr Lectr
 Peters, R. W., BA Sr Lectr
 (Geog) Lectr
 2 Lectrs †

Education

Sanders, C., PhD Lond, MA DipEd, FBPsS Prof
 Gray, R. K., BSc(Ped) McG, MA N.Y. (Phys E) Sr Lectr
 Merrilees, D., BSc Syd Sr Lectr
 Wheeler, D. K., PhD Lond, BA DipEd Sr Lectr
 Priest, T. A., BA N.Z., EdB Glas Sr Lectr
 Adam, R. S., PhD Lond, MA DipEd Syd, Sr Lectr
 MEd Melb Sr Lectr
 Anderson, A. W., BA BEd Sr Lectr
 Russell, Mrs Gwendoline M., DipPhysEd (Phys E) Lectr
 Lond (Phys E) Lectr
 Strait, K. B., BSc Manc (Phys E) Lectr

Engineering, see below**English**

Edwards, W. A., MA Camb. Prof
 King, A., MA Oxon Reader
 Burrows, L. R., MA Sheff Sr Lectr
 Williams, Mrs Helen B. W., DU Paris, Sr Lectr
 MA Oxon, BA Sr Lectr
 Bradley, Mrs Jean D., MA Melb Sr Lectr
 Seddon, G., BA Melb Sr Lectr
 Parsons, P. E., MA Camb., BA Sr Lectr
 Gibbons, T. H., BA Lond, MA Sr Lectr
 Gibbon, F. P., BA Nott Sr Lectr
 King, Alison, MA St And Sr Lectr
 Forsyth, R. A., MA Natal Sr Lectr
 1 Lectr †, 1 Sr Tutor

French

Tauman, L., LèsL DU Aix-Marseilles, Prof
 Dèsl Paris Reader, Hd of Dept.
 Randall, Jean, MA Melb Sr Lectr
 Morrow, Christine, DU Toulouse, BA Sr Lectr
 Simon, C. J., LèsL Paris Sr Lectr

Geology

Prider, R. T., PhD Camb, BSc, FGS Prof.
 Glover, J. J. E., PhD Calif, BSc, Sr Lectr.
 Balme, B. E., BSc Sr Lectr.
 Coleman, P. J., BSc PhD Sr Lectr.
 McCall, G. J. H., DIC, BSc PhD Lond Sr Lectr
 Kay, J. G., BSc Sr Lectr
 5 Sr Demrs, 2 Lab Techns

German

Benn, M. B., MA Lond, BA Reader, Hd. of Dept.
 Wolff, J. M., BA Bum Sr Lectr
 Juengling, C. A., BA Sr Lectr
 Francas, Bianca J., BA (Sci. Lang) Lectr.

History

Alexander, F., MA Melb. & Oxon. Prof
 Crowley, F. K., MA PhD Melb, Reader
 DPhil Oxon Reader
 Schoffer, I., PhD Amst
 Orr, R. R., MA N.Z., PhD Lond (Pol) Sr Lectr.
 Sr Lectr
 Sr Lectr

Gillion, K. L. O., PhD A.N.U., MA N.Z., Sr Lectr.
 AM Fletcher
 1 Lectr †, 1 Sr Tutor

Italian

Vanzetti, F. † Lectr.

Law

Beasley, F. R., ED, BA Oxon, LLB Syd, Prof
 LLD Melb Reader
 Braybrooke, E. K., LL.M N.Z. & Col Sr Lectr
 Allan, D. E., MA Camb Sr Lectr
 Edwards, E. J., BA BL Rangoon, LLB (on leave) Sr Lectr
 McCall, I. W. P., LLB Sr Lectr
 Davies, W. E. D. L., LLB Wales Sr Lectr
 8 Visiting Lectrs

Mathematics

Blakers, A. L., AM PhD Prin, BSc Prof., Chairman
 Levey, H. C., BSc MA Melb, PhD Manc (Appl M) Prof.
 Silberstein, J. P. O., BA Melb, PhD Camb Reader
 Hurley, D. G., MA Melb Reader
 Prabhu, N. U., BA Madr, MA Bom, Reader
 MSc Manc Reader
 Gamblen, F., MA Camb, MSc DipEd Sr Lectr.
 Storer, R., MSc Brown, BA BSc DipEd Sr Lectr
 Bowen, E. W., MA BSc Melb Sr Lectr
 Wynter, P. E., BA MSc Melb., Sr Lectr
 DPhil Oxon. Lectr.

Brimer, H., PhD *Munch*
 Hume, Beryl, BSc
 Falk, W S, BA *Melb*
 Hood, M J., MSc *Lond.*, BSc

2 Tutors, 1 Grad Asst

Medicine, see below

Music

Callaway, F., MusBae *N.Z.*, FTCL
 Jones, T A, MA *Syd*, LMus
 Tunley, I E, BMus *Durh*

Philosophy

Grave, S A, MA *N Z*, PhD *St And*

Hutchings, P. A, MA *N Z*
 Franklin, R L, MA LL M *Melb*
 Marshall, G D, MA *N Z*

Physics

Birkett Clews, C J., BSc PhD *Lond*, FIP Prof
 (Theoret. P.) Prof
 Shearer, J, MSc *Melb*, BA, FIP Reader
 Williams, S E, MSc *Syd*, PhD *Brist.*,
 FIP Reader
 Jeffery, P M., MSc PhD Reader
 Swan, J B, MSc *Melb*, PhD Sr Lectr
 Lucas, L N D, DIC, MSc PhD *Lond*,
 FIP Sr Lectr
 Sr Lectr
 Sr Lectr

Anderson, R A, BSc PhD *Glas.*
 York, Essie, BSc Lectr
 Jarman, P D, DIC, BSc PhD *Lond* Lectr
 Maslen, E N., BSc DPhil *Oxon* Lectr
 Macklin, W, MSc DipEd *Adel*, DIC,
 . PhD *Lond* Lectr
 Thies, H H, MSc PhD *Melb* Lectr
 1 Lab Manager, 1 Demr., 3 Lab Techns,
 13 Lab Assts

Physiology, see Medicine, below

Politics, see Hist

Psychology

Walker, K. F., MA DipAnth *Syd*,
 PhD *Harv*, FBPsS Prof
 Marshall, A J., PhD *Lond*, FBPsS Reader
 Taft, R, BA *Melb*, AM Col, PhD *Calif*,
 FBPsS Reader
 Berndt, R M, MA DipAnth *Syd*,
 PhD *Lond* Reader
 Richardson, A, PhD *Lond*, BA Sr Lectr
 Yates, A J., BA *Lw.*, PhD *Lond*. Sr Lectr
 Lawrence, P, MA PhD *Camb* Sr Lectr
 Lumsden, J, BA *Syd*. Sr Lectr
 Drummond, Grace A, MA *Lond*, DipEd
Melb, BSc Lectr
 Star, K H, BA *Melb*, PhD *Lond*. Lectr

Lavsey, P J, MA BSc Lectr
 Ross, J, BA DipEd *Syd* Lectr
 Lectr Lectr
 1 Sr Tutor, 2 Grad Assts, 2 Lab Techns

Zoology

Waring, H, MSc *Lw*, DSc *Aberd*, FAA* Prof
 Hodgkin, E P., BSc *Manc*, DSc Reader
 Kirk, R L, MSc *Birm.*, DSc (on leave) Reader
 Main, A R, BSc PhD Reader
 Shield, J W, MSc (on leave) Sr Lectr
 Zwicky, K T, PhD *Zur.* Sr Lectr
 Finch, Miss Mary E, MSc Lectr
 2 Gr. Demrs, 5 Grad Assts, 1 Lab Manager,
 3 Lab Techns, 2 Lab Assts

ENGINEERING

Civil Engineering

Cooper, K L, MA *Oxon*, BSc *Oxon*. & Prof.
W Aust
 Espie, J. R, BE Sr Lectr, Testing Officer
 Reynolds, G C., ME *Adel* Sr Lectr
 Clegg, B, BE Sr Lectr
 Hondros, G., BE Sr Lectr
 Massey, P. C, BE (on leave) Sr Lectr
 Silvester, R, BA BE PhD Sr Lectr
 Sacks, R., BSc *Cape T* Sr Lectr
 Taylor, R J, BE *Qld* Lectr
 Thomas, S J (Drawing) Lectr
 Smith, B. G. A, BE Temp Lectr
 5 Lab Techns, 5 Lab. Assts

Electrical Engineering

Billings, A R, BSc(Eng) PhD *Lond* Prof
 Taplin, K W, BE Reader
 Bundell, J H, BE Sr Lectr
 Fall, J V., BE Sr Lectr
 Steven, D H., BE *Sheff* Lectr
 Mills, J, BE Lectr
 4 Lab Techns, 3 Lab. Assts

Mechanical Engineering

Allen-Williams, D J F., MA PhD *Camb* Prof
 Cole, J A, MSc *Manc* Reader
 Lutz, G G., BE Sr Lectr
 Minchin, R S, BE Sr Lectr
 Phillips, J. R, BMechE PhD *Melb*. Sr Lectr.
 Hunka, J., DE *Lodz* Sr Lectr.
 Hemingway, E. W, DIC, BSc(Eng) *Lond* Sr Lectr.
 Wager, J G, BE Lectr
 1 Visiting Lectr, 7 Lab Techns.

MEDICINE

Anatomy

Sinclair, D C., MA *Oxon*, MD *St And* Prof
 (on leave)
 Mortimer, K E, BA *S A*, MB BS *Lond* Sr. Lectr.

Blumei, W F C, MA BM BCh *Oxon*Glasgow, E F, MB BCh BAO *Belf*Wilson, A S, MB ChB *Glas*
2 Lab Techns**Biochemistry**Lugg, J W H, DIC, PhD *Lond*, DSc,
FRICOliver, I T, MSc *Melb*, PhD *Sheff*Seutt, P B, MSc *Melb*
Ketterer, B, PhD *Camb*, MSc
1 Grad Asst, 3 Lab Techns, 1 Lab Asst**Child Health**Macdonald, W. B, MD *Melb*
Lewis, I C, MD ChB *Edin***Medicine**Saint, E G, MD BS BSc *Dush*, FRCP
Lefroy, R B, MA *Oxon*, MB BS *Melb*Smyth, J R, MB BS *Lond*, MRCP**Microbiology**Stanley, N F, DSc *Adel*
Perret, C J, MA *Camb*, PhD *Lond*May, J W, MSc *Adel*Easterbrook, K B, BSc *Briss*
2 Grad Assts, 1 St Techn, 1 Lab Techn,
4 Lab Assts**Obstetrics and Gynaecology**King, G, OBE, FRCS, FRCOG
Martin, J D, MD *Lond*.**Pathology**ten Seldam, R E J, MD *Ley*
Barter, R. A, MD *Adel*Walters, N I M., MB BS *Adel*
Kakulas, B A, MB BS *Adel*, MRACP
1 Medical Illustrator, 1 St Techn, 1 Lab
Techn, 3 Lab Assts**Physiology**Summonds, W J, BSc MB BS *Q'ld*,
DPhil *Oxon*Collin, R, MSc MB BS
Kaldor, I, MD *Bud*Tyndale-Biscoe, C II, MSc *N Z*
4 Lab Techns, 3 Grad Assps, 4 Lab Assts**Surgery**Lewis, C W D, BSc MB MCh *Wales*,
FRCSBlocks, J G, MB ChM *Leeds*, FRCS
Paton, R, MB BS *Adel*, FRCS**ADMINISTRATIVE AND OTHER STAFF**UNIVERSITY OFFICE Asst Registrars D D
Dunn, BA *Melb*, LLB, J A Crawley; G. A
Bartlett, MA; N T Bodycoat, BA. Guidance
& Appts Officer R Flecker, MSc DCP (on
leave) Actg Guidance & Appts Officer J W
Winfield, BA Asst Accountant & Property
Officer N F Devlin Sec of Public Exams.
R J Gardiner, BA Sec of Music Exams
Erin M Keen Tcmp Asst Guidance & Appts
Officer J A Coventry, BA Sub-Accountant
K V Benwell St Asst Property Officer C D
Waters, MA *Camb* Clerk of Annual Exams &
Clerk of Convocation L A W Richards, BA
DipCom Admin Officer Mrs Chertell Guil-
foyle, BA *Lond*LIBRARY Dep Librarian F D O Fielding,
MA *Dub* Asst Librarians G G Allan, MA
Oxon, Barbara M Hale, MA *N Z* Sr Cata-
loguer H Kathleen Edmiston, BAADULT EDUCATION Dn T H Roberts, MA
Oxon, BA Dep Dn J Birman, BA Tutor-
Organizers I Hanna, BA *Melb*, B Parke, BA
N Z Sec : B Newton. Actg Librarian
Valerie Lewis, BAUNIVERSITY BOOKSHOP. Manager F H
Beaumont**RESIDENTIAL COLLEGES AND HALLS WITHIN
THE UNIVERSITY**ST. CATHERINE'S COLLEGE (tel 86 5847) For
women Warden—Eva Eden, PhD *Camb*ST. GEORGE'S COLLEGE (tel 86 5532) For
men Warden—J H. Reynolds, MA *Adel* &
*Oxon*ST THOMAS MORE COLLEGE (tel 86 5080).
For men. Rector—J. R Boylen, BA *Dub*, PhD
Rome.CURRIE HALL (tel 86 2742) For men Sr
Fellow—R Flecker, MSc

AFFILIATED SCHOOLS

PERTH TECHNICAL COLLEGE, St George's Tce, Perth (tel. 21 7158), founded 1900. Provides qualifying courses in chem, maths, appl maths, phys and geol for univ degree. Principal—A P F Farnington.

SCHOOL OF MINES, Kalgoorlie, W A (tel. Kalgoorlie 80), founded 1902. Provides qualifying courses in chem, geol, maths, appl maths, phys for univ degree. Full 4th & 5th yrs of course for BEng(Mining). Principal—O R A Hobson, BSc.

TEACHERS' COLLEGE, Claremont, W A (tel. 3 2154), founded 1902. Provides profess courses for BEd and DipEd. Principal—N G Traylen, MA DipEd.

TEACHERS' COLLEGE, Graylands, W A (tel. F4737), founded 1955. Provides profess courses for BEd and DipEd. Principal—W H Halliday, MA DipEd.

WESTERN AUSTRALIAN COLLEGE OF DENTAL SCIENCE, Wellington St, Perth (tel. 21 2667, 23 2631), founded 1934. Provides some courses for BDSc. Dean—Prof K J G. Sutherland.

GENERAL INFORMATION

In 1909 the govt. of W Australia apptd. a royal commission with Sir John Winthrop Hackett, who subsequently became first chancellor of the univ, as chairman. Following the commission's report, the Univ. of Western Australia was endowed by an act of the state legislature which recd the royal assent on Feb. 16, 1911. The first senate was gazetted on Feb. 13, 1912. Teaching began on March 31, 1913, and the formal inauguration of the univ. took place on Oct. 20, 1913.

At the time of its establ., the univ. had 3 facs—arts, sci. and engin. Law was added in 1927 and agric., originally a dept. of the fac of sci., became a sep. fac in 1937. In 1946 the fac of dent sci. was establ., and in 1947 the fac of educn. (from 1916 till 1947 educn. was under the fac of arts). Economics, a dept. of the fac. of arts since 1914, was establ. as a sep. fac in 1954 and this was followed by the establ. of the fac of med. in 1956.

From 1913 to 1930 the univ. was located in temp. bldgs. in Irwin St, Perth, but following a bequest under the will of Sir John Winthrop Hackett permanent bldgs. were erected on the present site of 165 acres at Crawley-Nedlands on a bay of the Swan estuary about 3 mls from Perth.

St. George's Coll., the first residential coll. within the univ., which was built and endowed by the Anglican church from funds bequeathed by Sir John Winthrop Hackett, was opened in 1931. A univ. hostel for men students and a women's coll. were opened in 1946. The hostel, renamed in 1961 Currie Hall, is now a hall of residence. The women's coll. renamed in 1959 St. Catherine's Coll., now occupies a new bldg. opened in 1960. St. Thomas More Coll., establ. by the Roman Catholic Church, was opened in 1955.

Perth, the capital city of W Australia, has a pop. of 395,000. The univ. serves the whole state of W A (pop. 735,000).

CONSTITUTION The admin. of the univ. is vested in a senate of 21 members, of whom 6 are nominated by the govt. and 7 are *ex-officio* or co-opted members. A second body with mainly

elective and revisionary functions is known as convocation. Convocation elects 6 members of the senate. The teaching staff elects 2 members.

INCOME (1960) £A1,340,196 (state govt., 57 per cent., Commonwealth govt., 33.7 per cent., other sources, 9.5 per cent.).

FACULTIES AND DEANS. *Agric.*, Prof E J Underwood, *arts*, Prof F Callaway (music), *dent. sci.*, Prof K J G Sutherland, *econ.*, Prof I I Bowen, *educn.*, Dr D K Wheeler, *engin.*, Prof D. J. F. Allen-Williams (mech. engin.), *law*, Prof F R Bensley, *med.*, Prof E G Saint, *sci.*, Prof R T Prider (geol.).

LOCATION OF DEPARTMENTS. Dental Coll. Wellington St, Perth (tel. 21 2667), Med Sch. Victoria Sq, Perth (tel. 23.1321).

LIBRARY 189,000 vols.

LABORATORIES. *Agric.*, snat., biochem., bot., chem., dent., engin., geol., microbiol., pathol., phys., physiol., psychol., zool.

MUSEUMS. *Agric.*, bot., pathol., geol., zool.

FIELD STATIONS. *Agric.*, bot., zool.

TEACHING HOSPITALS. Royal Perth, King Edward Memorial, Princess Margaret, Perth Chest H, Heathcote Reception Home, Claremont Mental, Fremantle Public.

ADMISSION See Appendix III.

NON-MEMBERS OF THE UNIV. Students not proceeding to a degree may be permitted to attend lectures in one or more subjects with the approval of the fac. concerned. Any such student who has not matriculated may be required to pass such prelim exam as the fac. may direct.

PUBLIC EXAMINATIONS. Sch. certs.: 11. and leaving, music and art of speech. Sch. cert. exams held annually in Nov., practical exams. in music and art of speech in May and between Aug. and Dec. For sec., see 'Admin. and Other Staff', above. Address 3 Howard St., Perth (tel. 21.9088). See also Appendix III.

FIRST DEGREES 3 yrs.—BA pass (4 yrs. for hon.) in classics, econ., Engl., French, German, hist., maths, philos., psychol. and anthropol.; BSc pass (4th yr for hon.) in anat., biochem., bot., chem., geol., maths., microbiol., phys., physiol., psychol., zool. 4 yrs.—LLB pass and hon.; BEd pass and hon.; BEc pass and hon.; BSc(Agric) (5th yr for hon.), BSc(For); BScSurv pass and hon.; BMus pass and hon. 5 yrs.—BDSce pass and hon., BE pass and hon. in civil, mech., electr., mining 6 yrs.—MB BS.

HIGHER DEGREES MA, LL.M., MEd, MEd, MSc, MEngSc, MSc(Agric), 1 yr from 1st degree with hon., 2 yrs from 1st degree pass, MDSc, 2 yrs from 1st degree, ME, 3 yrs from 1st degree pass or hon.; DLitt, 5 yrs from 1st degree, LLD, 3 yrs from 1st degree with hon., 5 yrs from 1st degree pass, DSc, DSc(Agric), 6 yrs from 1st degree, DEng, 3 yrs from 1st degree with hon., 4 yrs from 1st degree pass, DDSce, 4 yrs from 1st degree, PhD (agric., arts, dent. sci., educn., engin., sci. only), 2 yrs. from 1st degree with hon., 3 yrs from 1st degree pass. In arts and sci. a master's degree cannot be obtained in less than 5 yrs from matric. All higher degrees involve res. To proceed to master's degree a student must graduate with hon. or pass a prelim. exam. All degrees open to grads from other recognized univs. Master's degrees and the PhD are supervised degrees.

HONORARY DEGREES The senate on the recommendation of the honorary degrees cttee may confer any of its degrees as an honorary degree.

EXTERNAL DEGREES Only BA may be taken wholly externally (most of the units for BEd, BEc may also be taken) but only by residents of W Australia who live outside Perth metropolitan area and in special circumstances by students who have done a major portion of their course and have gone to live in another state. Enrolment is restricted almost entirely to non-lab subs except for lab. subs taken at affiliated instns, e.g. Sch. of Mines, Kalgoorlie. Tuition is given by correspondence and a circulating library service.

EVENING or LATE AFTERNOON CLASSES are held for first degrees in the facs of arts, econ and educn only, and a full degree course may be undertaken by evg study. Certain sci. and engin. classes may be taken in the evgs at affiliated colls but a full degree course is not available by evg study in these facs.

DIPLOMAS Educn., 1 yr postgrad.; child and educnl. psychol. (DCEP), 2 yrs.; clin. psychol. (DCP), 3 yrs.

RESEARCH. Postgrad. res is carried out in most depts and £A56,591 was provided for this purpose by the univ res grants cttee. In addition in 1960 £A73,745 was obtained from outside sources for res. Report published annually.

STUDY LEAVE. At the end of every 6th yr of continuous service, staff are entitled to study leave up to a max. of 12 mos. on full pay for a

programme of study approved by the senate. The senate may also grant up to 6 mos.' study leave after 3 yrs.' continuous service.

FEES Matric, no fee. *Ad eundem statum*, £A1 is Admission to degrees bachelors, £A5; master's and PhD, £A10, other doctor's degrees, £A25. No lecture fees are charged except in facs of dent sci and med., but there is a fac service charge varying in amount up to £A50 p a approx, covering exam fees, use of lab equipment, hire of microscopes, loan of books from library, etc. Approx fees for local dent and med students are dent—1st yr., £A62, subsequent yrs £A100, med—1st yr., £A60; subsequent yrs £A100.

Students coming from overseas and neither normally nor likely to become permanently resident in Australia are charged an annual fee of £A30, in addition to all charges normally payable by W Australians except in facs. of med and dent sci., when the fee is £A15 p a.

ACADEMIC YEAR March to Nov. three terms of 9, 9 and 8 wks.

ADULT EDUCATION Adult educn. work is controlled by the univ. adult educn. bd., which has its HQ and library in Chancery House, Howard St., Perth. Its activities, which are state-wide and include extension lectures, orchestral concerts, drama, opera and ballet, are carried on in the metropolitan area of Perth as well as in country districts. In assocn. with other interested bodies the bd. runs an annual 'Festival of Perth'.

PRINCIPAL 'OPEN' AWARDS Commonwealth govt. scholps (see pp 12-13) all fees plus living allowance (means test), Hackett bursaries, all fees plus living allowance (means test), govt. univ. exhibitions £A40 or £A20 p a.

SCHOLARSHIPS FOR GRADUATES Commonwealth scholps, value £A600-£A750, tenable 1 yr., may be renewed to a max. of 4 yrs (see pp 12-13), G.M.H. scholps (a), value £A800-£A1200, tenable for 1 yr., in engin., sci. and comm.; I.C.I.A.N.Z. scholp, value £A1100 p a, tenable for 2 yrs., in chem. or selected field.

GUIDANCE AND APPOINTMENTS OFFICE. Assists undergrads and grads to obtain employment, permanent or for vacations, also assists undergrads with personal problems.

STUDENT RESIDENCES. St. Catherine's Coll. 49 women, £A190 p a. St. George's Coll., 92 men, approx £A225 p a. St. Thomas More Coll. 65 men, £A195 p a. Currie Hall, 150 men, £A5.153 per wk. See also under 'Residential Colleges', above.

STAFF RESIDENCES. The univ. owns 49 houses which are let to staff members. In addn. there is a scheme which enables staff members to obtain a loan of up to £A6000 for purchase of a house.

MILITARY AND AIR FORMATIONS Univ. regiment (tel. 3 1966) univ. air squadron (tel. 86 3095).

STUDENT ORGANIZATION The student organization is known as the guild of undergrads. and the student bldg, which forms part of the Hackett memorial bldg is known as Hackett Hall. Annual sub to the guild is £A7 17s, but in first yr. students pay an extra £A1 18 registration fee. Pt-time and external students pay a proportionate fee.

ATHLETIC ACTIVITIES, ETC Three sporting ovals, lawn tennis courts, hockey and basket-ball grounds and a boatshed. There are 2 open-air theatres which are used for staging plays, concerts, films, etc., particularly by the adult educn bd in assocn. with the 'festival of Perth' cttee.

PUBLICATIONS *Calendar*, published annually for local and exchange purposes and not for sale,

a shortened ed called the *Handbook* is sold annually for 6s; *Orientation Handbook*, free to new students; *Univ Gazette*, limited distribution free; *Public Exam Manual*, 6s; *A Guide to the Univ of Western Australia*, Univ of W Aust Press, 1954, 5s; the *Pelican* (student newspaper). The sci. union is responsible for an annual magazine, *Scope*. Arts union publishes an annual magazine, *Westerly*. Individual publishers are undertaken by Univ of W Aust press, and include the *Annual Law Review* (10s 6d), *Univ. Studies in History and Economics* (occasional) and the *Educand* (annual, 10s 6d).

UNIV OF WESTERN AUSTRALIA PRESS. Publishes works of learning, official univ publicns. and such other educnl works as the bd of management may accept.

THE YEAR 1960

PRINCIPAL BENEFACTIONS Raine Med Res Foundation, £A19,200, partial distribution from estate of W S McGillivray, £A15,000, commerce degree appnt, £A11,000. (Total value of all benefactions received £A66,859)

MAJOR BUILDING DEVELOPMENTS Bldgs completed St Catherine's Coll (for women) *Approaching completion* new engin sch.

NEW DEPARTMENTS AND CHAIRS Chair of appl maths.

RETIREMENTS. A C Fox (prof. of philos.).

RESIGNATIONS P J Bentley (physiol), apptd. lectr., Bristol; D Bradley (English), apptd. sr lectr., Monash; Dr W Compston (phys), apptd. Fellow, A.N.U.; Dr R Dingle (phys.), apptd. to chair of theoret. phys, St And; Dr D P Drayer (agric), apptd. to chair of agric chem, Khartoum; Dr J Ganu (maths), apptd. sr Fellow, A.N.U.; G L Glick (civil engin), to private practice; Dr D Greenhalgh (phys), F. H. Johnson (dep registrar), apptd. registrar, Monash; J J. Laurie (civil engin), Dr J D Legge (hist), apptd. to chair of hist, Monash; Dr J. H. Little (pathol), apptd. to hosp post, Q'ld; Mary Redmond (German), apptd. lectr, Monash; Dr D R Smart (maths), S W Woods (sec, pub. exams), apptd. to state educn dept.

HONORARY DEGREES *DLitt*—H C Coombs, govr. of Commonwealth Bank of Australia

Statistics

STUDENT NUMBERS, 1961
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1572	1144
Women	398	401
Total	1970	1545

Distribution by Faculties *Agric*, 116, *arts*, 1488, *dent sci*, 74, *econ*, 149, *educn*, 281, *engin*, 305, *law*, 109, *med*, 302; *sci*, 682, *vet sci*, 9. Total 3515

Included in the figures above are —

Postgraduate students, 247

New admissions, 803

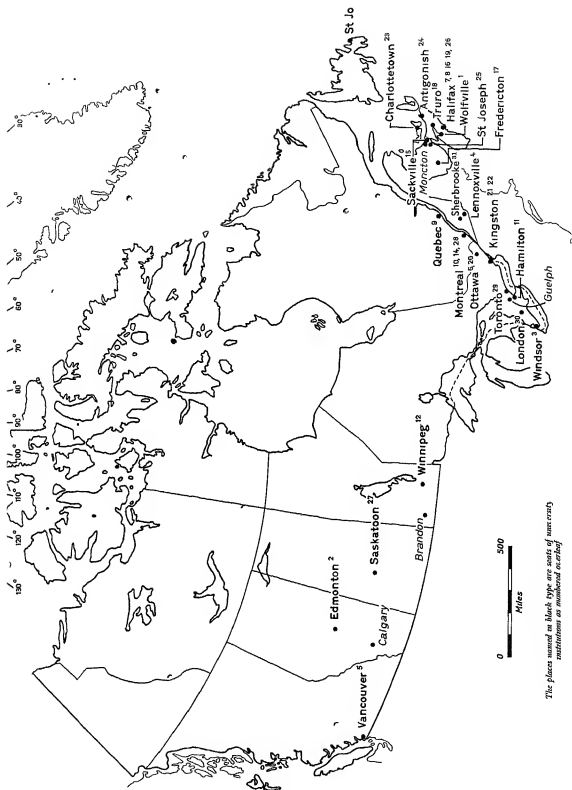
Students from other countries, 162 (Countries from which largest numbers came Fed of Malaya, 94, Singapore, 31, Sarawak, 13).

DEGREES AWARDED (1960). *Agric* BSc(Agric), 6, BSc(Agric) (hons), 3, MSc(Agric), 2, DSc (Agric), 1. *Arts*: BA, 109, BA (hons), 18, MA, 3. *Dent sci* BDS, 8; MDSc, 3. *Econ* BEc (hons.), 3. *Educn*: BEd, 15, BEd (hons), 12. *Engin*: BE, 19, BE (hons), 14. *Law*: LLB, 11, LLB (hons), 1. *Med*: MB BS, 3. *Sci*: BSc, 29, BSc (hons), 27, MSc, 5, BSc (For), 3. PhD (all facs), 11.

DIPLOMAS AWARDED (1960) DipEd, 42

CANADA

- 1 Acadia University (p. 129)
- 2 University of Alberta (p. 133)
- 3 Assumption University of Windsor (p. 147)
- 4 Bishop's University (p. 153)
- 5 University of British Columbia (p. 156)
- 6 Carleton University (p. 176)
- 7 Dalhousie University (p. 181)
- 8 University of King's College (p. 189)
- 9 Laval University (p. 192)
- 10 McGill University (p. 205)
- 11 McMaster University (p. 222)
- 12 University of Manitoba (p. 229)
- 13 Memorial University of Newfoundland (p. 243)
- 14 University of Montreal (p. 247)
- 15 Mount Allison University (p. 261)
- 16 Mount Saint Vincent College (p. 266)
- 17 University of New Brunswick (p. 269)
- 18 Nova Scotia Agricultural College (p. 274)
- 19 Nova Scotia Technical College (p. 276)
- 20 University of Ottawa (p. 279)
- 21 Queen's University at Kingston (p. 290)
- 22 Royal Military College of Canada (p. 299)
- 23 Saint Dunstan's University (p. 303)
- 24 St. Francis Xavier University (p. 305)
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- 27 University of Saskatchewan (p. 317)
- 31 University of Sherbrooke (p. 326)
- 28 St. George Williams University (p. 330)
- 29 University of Toronto (p. 334)
University of St. Michael's College (p. 359)
University of Trinity College (p. 361)
Victoria University (p. 363)
- 30 University of Western Ontario (p. 365)



The places named in black type are seats of university mathematics as numbered in this list

THE UNIVERSITIES OF CANADA

[Specially contributed for this edition by Colin M. McDougall, Registrar, McGill University]

HISTORY In 1635, the year before the colonists of Massachusetts Bay voted to found what would become Harvard College, the priests of Quebec city, capital of the French colony of Canada, founded the Collège des Jésuites. The Séminaire de Québec, lineal forefather of the mighty Laval University of to-day, was founded in 1663. To this institution the Collège des Jésuites transferred its arts courses in 1765, and from these roots grew the whole vast system of French-Canadian education. One lusty infant of the same parentage, which grew into a giant, was the University of Montreal, established as a 'succursale' of Laval in 1876, and receiving its own charter in 1920. Scores of classical colleges, each attached to one of the universities, were founded over the years, and the French-language institutions even spilled over the provincial frontiers. The Collège St-Boniface, for instance, was established in Manitoba in 1827, the bilingual University of Ottawa in 1848 and St. Joseph's, of New Brunswick, in 1864.

Colleges in the English-speaking tradition came later. For a decade after the conquest of the French colony in the 1760s, the British military shouldered their muskets and tended to military affairs. It was the American revolution which brought English-speaking education to Canada. Streaming north from their absconded colonies came the civilian loyalists, and these men concerned themselves at once with the task of providing education for their children. The first institutions they founded were named, predictably, 'King's' Colleges. King's College, at Windsor, Nova Scotia, was founded by provincial charter in 1789, receiving its royal charter in 1802. The University of King's College is now located at Halifax and is intimately associated with Dalhousie University. In New Brunswick the Provincial Academy of Arts and Sciences became the College of New Brunswick by provincial charter in 1800, receiving its royal charter as King's College, New Brunswick, in 1828. In 1859 this institution became the University of New Brunswick. A third, 'King's College at York' (precursor of the University of Toronto), was founded in 1827. One may reflect how the influence of King's College, New York (which took the name of Columbia University after the revolution), spread to Canada, a group of Anglican clergymen in New York planned King's College, Windsor, while awaiting the ships that would carry them into exile. The loyalists were as devout as they were loyal, not only did they name these colleges for their King, they prescribed for them his religion. Each institution was firmly and fervently Anglican, and thus the denominational pre-

cedence in Canada was firmly established. Only some of the loyalists, and only some of the English-Canadians, of course, were Anglican, and this division was to give rise to bitter disputes.

The universities of Canada may be classified in one of three main groups.

1 Those founded, supported and controlled in varying degree by religious denominations. *e.g.* Laval, Montreal, Ottawa, St. Francis Xavier, St. Joseph's—Roman Catholic; King's, Bishop's—Anglican; Mount Allison—United Church; Acadia (and, until 1957, McMaster)—Baptist.

2 Those primarily supported by their province, and to some extent subject to provincial control. *e.g.* New Brunswick, Toronto, Manitoba, Saskatchewan, Alberta, British Columbia.

3 Those independent of church or state (although perhaps denominational at the outset), and at one time dependent upon private benefaction. *e.g.* Dalhousie, McGill, Queen's, Western Ontario, Carleton.

The Anglican King's Colleges demanded and received financial grants-in-aid from their local and home governments, a privilege at first denied to the other denominations. This engendered considerable strife and bitterness, and the 'college question' became entangled with the current political struggle for responsible government. As quickly as possible the other denominations moved to establish their own institutions. Thus, to cite a few examples: Acadia (Baptist 1838), Queen's (Presbyterian 1841), Victoria (Methodist 1841), St. Francis Xavier (Scotch R.C. 1853), Woodstock College (Baptist 1857, now McMaster), Mount Allison (Methodist 1858).

During these years generations of stern, dedicated clergymen, some of them inspired teachers and educators, others denominational martinets, came to dominate the Canadian educational scene. For the most part there was nothing 'donnish' about these men, they had a hard job of education to do in a new country and they did it well. If the sweet delights of meditation in an Oxford cloister, or the revels of a Heidelberg beer-hall were missing, so were these things from the Canadian landscape itself. They bled their men to live in a dour country, the doctors, lawyers, teachers and fellow-clergymen who had to serve and earn their living in a new country whose very boundaries were unknown. Given the political-governmental background, it is little wonder that denominational battle lines were clearly drawn and bitterly contested.

The only early exceptions to this denominational emphasis were Dalhousie and McGill. Having seized the sum of £11,000 from the

American customs in the war of 1812-14, Lord Dalhousie founded the university bearing his name in 1818. This was in direct protest against the sectarianism and allocation of government support to the King's Colleges; and at Dalhousie registration was opened 'to all occupations and sects of religion'. James McGill left his estate and £10,000 to found McGill College, which received its royal charter in 1821. As a Presbyterian, turned Anglican, who married a Roman Catholic, McGill too decreed that his college should be non-sectarian. To accomplish this purpose one of the first principals, who was also rector of Christ Church in Montreal, had to be dismissed after bitter wrangling. Both these institutions were modelled on the University of Edinburgh pattern. A third institution of the Scottish type was Queen's, at first under Presbyterian control, but later non-sectarian. It is worthy of note that these three universities emphasized the study of science and medicine during the nineteenth century, and attained national prominence in these fields.

The universities of Canada are products of their times and geography. Hence in the early-settled Atlantic provinces, hitherto poor, there are no fewer than seventeen degree-granting institutions for a population of less than two million. Only three of these receive provincial aid in substantial amounts, and all envy the prodigal support received by universities in the central and western provinces. If poor in relative terms, the Atlantic universities are rich in academic accomplishment. It is these universities which have for the most part produced the presidents and principals of the other universities of Canada.

Quebec and Ontario, with a population of ten million, have fewer universities. In the case of Ontario financial support has been lavish, at least as seen by Maritime eyes; in Quebec, since the recent resolution of the federal-provincial constitutional impasse, support has been generous. The process of consolidation and federation proceeded rapidly in the central provinces after national confederation in 1867. Various subdivisions of Presbyterian and Methodist colleges were united, and larger institutions gathered hosts of small colleges under their wings. The University of Toronto, Canada's largest, is a classic example both of federation and affiliation, containing within itself three universities, and a number of affiliated colleges, as well as perpetuating the names of other superseded precursors.

In the west, the newest section of the country, a new philosophy is evident. Each of the four western provinces, Manitoba, Saskatchewan, Alberta and British Columbia, has its provincial university, and the provinces have decreed that degree-granting powers shall be confined to these provincial universities. All are large (the University of British Columbia is now Canada's second largest in enrolment), flourishing and generously supported by their provinces. All have affiliated or federated colleges (Manitoba began on the University of London model as an examining and degree-conferring body) and it is probable, as a

result of the population explosion, that institutions such as Brandon College (Manitoba), Regina College (Saskatchewan), the 'University of Alberta in Calgary' and Victoria College (British Columbia) will be assigned roles of greater importance in the future. In statistical summary, Canada has forty-six universities and colleges with degree-conferring powers, more than 300 other institutions offer courses at university level.

The movement in Canada to establish new universities gains additional impetus each year. Four new institutions have been proposed for the province of Quebec, even one for New Brunswick already so plentifully endowed. In recent years the following new institutions have come into being, or changed to university status: Assumption University of Windsor, Laurentian University of Sudbury, Osgoode Hall Law School, Royal Military College of Canada, University of Sherbrooke, Sir George Williams University, University of Waterloo, Waterloo Lutheran University, York University. The existing universities will expand, and still more universities will be founded in the years ahead. For the enrolment in 1960-61 of 114,000 students will more than double by the end of the decade.

CONSTITUTION In structure Canada's universities range all the way from simple unitary types like, say, St. Dunstan's, based upon one faculty with an enrolment of 350, to a federated and complex giant like Toronto with more than 14,000 students. On the scale between these extremes every size and type of institution is represented. Despite this diversity, however, it is interesting to note that a fairly constant academic standard prevails. One institution will, perhaps by ten percentage points, be less or more exacting than another in entrance requirements, but there is nothing equivalent to the US state university which is required by law to admit any high school graduate of that state. In this particular of relatively uniform standards Canadian universities on the whole more closely resemble those of the United Kingdom than the United States. For the same reason, of course, it is more difficult to pluck out and identify any one as being the Harvard or Oxford of Canada.

Plenary control is exercised in almost every case by a board of governors who reserve to themselves full financial powers, but assign matters of academic concern (including curriculum, standards, degrees, etc.) to a senate or faculty council. The president or principal (and, usually, in this case, the vice-chancellor) is appointed by the board as the university's chief executive officer. The chancellor may, in the case of denominational institutions, be an archbishop, in other cases a retired and distinguished academic, and, in others still, a businessman who acts as chairman of the board. The board itself draws heavily on the business world, hardly at all upon the academic. Provincial universities will have governmental representatives on the board, the religious will have their clerics, but the most striking feature

of all boards is the preponderance of businessmen who govern the universities of Canada. It says much for the sagacity and patience of these men that universities have flourished as they have. Inevitable conflicts of interests or conviction between business and academic attitudes have been met head-on and solved, financial management for the most part has been excellent. Still, the academics are calling more urgently each year for a greater voice in university government. (For an interesting debate on this topic see recent issues of the bulletin of the Canadian Association of University Teachers.) The one focal point at which the interests of board, senate and faculty intersect is the president or principal. As a member, and often the sole academic member of the board, and usually also the chairman of senate, he has been likened to a 'narrow isthmus' linking the academic body to its governing head, and the academics would have it that the isthmus needs considerable broadening.

FRENCH-CANADIAN UNIVERSITIES Unique in the Commonwealth are the French-Canadian universities, patterned after the French model, and resembling neither those of Great Britain nor the United States. While deriving their structural origin from France, it should at the same time be noted that the French-speaking universities have developed distinctively Canadian characteristics of their own. The core of their structure is formed by the numerous *collèges classiques*, each attached to one of the universities, and in aggregate forming the faculty of arts of that university. These *collèges* confer the BA degree after an eight-year course, the first four years being at secondary school level, the last four years constituting the *cours collégial*. Yet note the differences between one of these *collèges* and a French *lycée*. The French-Canadian baccalaureate demands one more year of study than its French counterpart, it allows for no elective courses at all, and its curriculum differs in many other important respects. This is the distinctively Canadian pattern that has evolved over the centuries; and it will help to remember that the pattern was modelled on the French system *before* secularization occurred.

There are scores of these *collèges classiques* scattered throughout the province of Quebec, at least one in every Roman Catholic diocese. They are mostly residential and are not co-educational, separate colleges existing for girls. Comparing the French-speaking BA to its English university equivalent, it will be seen that it is a 'general BA', offering neither specialization nor electives. For this reason, and because instruction is given only in French, transfer into or out of the stream from another academic system is almost impossible. This BA is the primary means of admission to the university proper; considering that the *collèges classiques* constitute the faculty of arts, the BA qualifies the holder for admission to every other faculty of the university. It is, moreover, the prerequisite for admission to medicine, law, theology, social sciences, graduate faculty of arts, pharmacy and dentistry.

The second method of admission to university is by attendance at a French-speaking high school. Here there are normally twelve years of secondary schooling, and at the end of the *douzième année* the student may be admitted to courses in engineering, science, commerce, education, physical education, forestry, agriculture, nursing, physiotherapy and laboratory technique. In each of these cases the student will study toward the baccalaureate in the field concerned. As a rough guide, the *douzième année* of the French-speaking high schools is considered equivalent to 'O' level in the General Certificate of Education.

The French universities correspond to their English-language counterparts in offering the master's and doctor's degrees at postgraduate level. It is sometimes assumed that the *licence* is the usual second degree, but this degree, with some exceptions, is conferred only on graduates of a *collège classique*, and is designed to qualify them to teach in a *collège classique*. It involves four dissertations instead of one thesis, and differs in other respects from the usual master's degree. The student coming to a French-Canadian university from another system will, in any event, either work toward a bachelor's degree in his chosen field, or toward the usual postgraduate master's or doctor's degree. Transfers at postgraduate level from the English to the French system are quite usual and can be effected without difficulty.

The foregoing is a simplified account of a complex subject, and for more detailed information the reader is referred to the institutional listings of Laval University (p. 192) and the University of Montreal (p. 247), as well as to some of the publications listed under 'Further Information' on p. 121.

RELATIONSHIP TO GOVERNMENT Under the terms of the Canadian constitution, as defined in the British North America Act of 1867, education is assigned to the various provincial governments and not to the federal government. Thus each province has its own department of education, and until recently, apart from running the Royal Military College and supporting various research activities, the federal government did little more than keep a benign eye on the universities. Since 1952, however, the federal government has recognized the financial needs of the universities as a national responsibility, and hence a federal grant, at present calculated on the formula of \$1.50 *per capita* of provincial population, and divided among institutions according to individual enrolment, has been paid to all universities except those in the province of Quebec. To avoid any imputation of governmental interference these payments are remitted to the universities through an incorporated academic body known as the Canadian Universities Foundation (see p. 120). In ten years the government of Canada has paid \$139 million of sorely needed dollars to its universities.

Provincial grants, both to provincial and non-provincial universities, vary from generous to scant. One province, for instance (Manitoba), allocates 5 per cent. of its provincial budget to

universities, another (Newfoundland) less than 1 per cent. The most recent survey shows that annual grants to universities ranged from a low of \$182,000 in Prince Edward Island, to a high of \$30,000,000 in Ontario, or, on a *per capita* basis, from \$206 per student in Nova Scotia to \$1776 per student in Alberta.

Quebec presented a very serious problem of its own. As the guardian of *la nervosance française* in Canada, Quebec has fiercely resisted any encroachment upon its exclusive rights in education. For six years, from 1953 to 1959, the universities of Quebec grew poorer and sadder and more desperate as the shooting war on the subject of provincial autonomy raged between the government of Quebec and the government of Canada. Education belongs to the province, cried the provincial government of that time—hence federal aid is unconstitutional and a violation of provincial rights. While the war raged the universities grew poorer and sadder and more desperate still. Happily to relate, however, a resolution* was reached in 1959, and in lieu of federal grants the Quebec universities now receive a statutory amount from the province larger than the federal grant (calculated on the basis of \$1.75 rather than \$1.50 per student) plus generous supplementary amounts for operating and capital costs. In effect, the government of Quebec has accepted the obligation of attempting to balance the budgets of its universities.

* CANADA COUNCIL. In 1957 the government of Canada set up a Canada Council charged with the task of implementing certain recommendations of the royal commission on national development in the arts, letters and sciences, which had been headed by the Right Honourable Vincent Massey. The announced object of the Canada Council was 'to foster and promote the study and encouragement of, and the production of works in, the arts, humanities and social sciences'. This was a bold and imaginative venture indeed in a country never previously noted for an over-zealous concern with its arts and artists.

To accomplish this purpose the government gave to the council the sum of \$100 million, divided into two funds, the University Capital Grants Fund and the Endowment Fund. The first fund of \$50 million is being spent over a ten-year period in matching grants to universities to help with the erection of buildings in the arts, humanities and social sciences. These grants were offered to ninety-five eligible institutions according to a complicated formula based on provincial population figures in relation to student enrolment, and they have already been put to extremely productive and effective use.

The second \$50 million, constitutes an endowment fund, the interest on which now yields almost \$3 million per year, and this money is used to accomplish all manner of good works.

* This whole problem makes a page of fascinating reading in Canadian history. For an excellent account see Edward F. Sheffield's *Canadian Government Aid to Universities* in the June 1960 issue of 'Vestis, the Australian Universities' Review'.

About \$1 million per annum is expended on a scholarships programme which provides some 600 annual scholarships and grants-in-aid to Canadian students at the postgraduate level. Grants totalling well over \$1 million are awarded each year to orchestras, theatres, ballet and opera companies, universities and various cultural or academic bodies to enable them to maintain or expand their activities. In addition, many individual artists, writers, musicians and scholars receive grants to enable them to complete given projects and to free them for creative work. Imagination has been evident in every phase of the council's activities. Recently, for instance, grants of \$2000 each were made to seven universities to commission sculptures on their campuses—note the dual purpose achieved here, that of beautifying the campus and at the same time enabling the sculptor to practise his art and earn a living. Special grants of up to \$5000 are now being made to university libraries to develop programmes of instruction and research in asiatic, slavonic and mediaeval studies.

Of the ten categories of scholarships offered by the council those of chief interest to academics from abroad will be the two classes of non-resident fellowships. These are (a) fellowships of one year for study or teaching in Canada in the arts, humanities or social sciences, of an average value of \$5000 (plus travel allowance, plus two-thirds travel allowance for wife) for senior fellows, and (b) awards of an average value of \$2000 (plus travel allowance), subject to renewal, for younger scholars who have shown exceptional promise. These latter scholars should not accept teaching duties, and, under a recent modification, the senior non-resident scholars are only rarely expected to teach. In the 1961-62 session prominent scholars from the United States, England and France will spend one year as visiting lecturers at the universities of New Brunswick, Alberta, British Columbia, Montreal, Ottawa and Laval.

In the retrospect of only a few short years it seems almost inconceivable that Canada, and especially its universities, ever survived and prospered without the Canada Council.

The chairman of the Canada Council is Dr Claude T. Bissell, president of the University of Toronto. The vice-chairman is the Very Reverend Father G.-H. Levesque, and the director is Dr Albert W. Trueman. The address of the Canada Council is 140 Wellington Street, Ottawa, Ontario.

FINANCE. The total income for thirty-three Canadian universities and colleges for the academic year 1959-60 was \$118,859,723. This figure covers academic phases of their operations and does not include some twenty millions of gross income from ancillary enterprises and deferred federal grants. The chief sources of income and the average proportion of the university

budgets derived from these sources are as follows: student fees, 27.8 per cent; gifts, 3.4 per cent; endowments, 4.1 per cent; federal grants, 13.9 per cent; provincial grants, 31.1 per cent; research grants, 15.4 per cent. These averages are far from being representative of individual universities. Thus student fees range all the way from approximately 15.0 per cent to 68.0 per cent; of some of the budgets, gifts range from 0.0 per cent to 35.1 per cent; endowments from 0.0 per cent to 28.1 per cent; federal grants from 0.0 per cent to 44.0 per cent; provincial grants from 0.0 per cent to 92.6 per cent; research grants from 0.0 per cent to 29.1 per cent.

PRE-UNIVERSITY EDUCATION In the English-speaking system children usually enter school at the age of six. Attendance is compulsory from the age of six to fifteen or sixteen. Approximately two-thirds of the children entering grade I continue into secondary school, and about one-third complete the requirements for a high school leaving certificate at the end of eleven or twelve years. In most provinces secondary schooling follows the composite pattern, although technical schools provide vocational courses in many of the cities.

Secondary schooling ends either at junior or senior matriculation level. As a rough guide, 'O' level in the General Certificate of Education is considered to be equivalent to junior matriculation, and 'A' level equivalent to senior matriculation. The junior matriculation year is grade XI in Newfoundland, Nova Scotia, Quebec and Manitoba, and grade XII in Prince Edward Island, New Brunswick, Ontario and British Columbia. The senior matriculation year is grade XII in Nova Scotia, Quebec, Manitoba, Saskatchewan and Alberta, and grade XIII in Ontario, New Brunswick (occasionally) and British Columbia. The senior matriculation year at school is generally accepted as being equivalent to first year at a university which admits from junior matriculation level.

In French Canada children either attend a high school, in which case the *fourième année* is usually the terminal year of secondary education, or they enter a *collège classique*, already described on p. 115.

ADMISSION (see also Appendix III) Except in faculties such as medicine, where the number admitted depends on the available number of clinical places, all applicants who meet the stipulated entrance requirements of a university are admitted. Residential universities, of course, can admit only up to their limit of available rooms, and a few universities are so crowded at present that a small proportion of qualified applicants must be turned away until new buildings and class-rooms are provided. In general, however, applicants who write provincial examinations at the end of their secondary schooling and obtain the required average (usually from 60 per cent to 70 per cent) in certain prescribed papers (as detailed in Appendix III) will be admitted. A small, but perhaps notable trend of the future, is the desire of a few univer-

sities to limit enrolment and to select the best students out of the total number who apply. McGill, for instance, requires College Entrance Examination Board tests of its Canadian applicants and issues some 'provisional early acceptances' before the provincial examinations have been written.

For admission to graduate school a first degree with at least 'second-class honours standing' in the subject proposed for the higher degree is usually required. Some graduate faculties will admit a student to a 'qualifying year' if he has good general standing but lacks the necessary prerequisite subjects. Graduates of other universities throughout the world are admitted if they have equivalent standing.

INSTRUCTION is in either English or French, according to the university. A good working knowledge of the appropriate language is essential, and some universities (e.g. University of Toronto) require applicants whose mother tongue is not English to submit the English Language proficiency certificate of the University of Cambridge or the University of Michigan. Non-Canadian students should apply as early as possible before the session commences. Canadian immigration authorities will require proof of health and financial competence.

STRUCTURE OF DEGREE AND DIPLOMA COURSES A pass or 'general' first degree is usually completed after four years of study from junior matriculation, or three years from senior matriculation. The BA normally comprises five full courses each year, science, and especially engineering courses usually considerably more. Examinations are held each session on the work of the year in each course, and 'pass standing' is required in order to be admitted to the subsequent year. In the general degree the student proceeds according to some basic pattern of major, continuation or cognate subjects. The vast majority of Canadian students are registered in general rather than in honours degree courses.

The honours degree usually demands an additional year of study, although this requirement is by no means universal. In honours courses the student may take 'joint honours' in two subjects or concentrate exclusively upon the one chosen subject. Concentration is the keynote of an honours course, the governing board of the academic banquet is not for the honours student he dines exclusively from the one academic dish. 'Honours standing' (usually from 65 per cent up) is required both to enter and to remain in an honours course.

A master's degree demands at least one year of study in certain prescribed courses beyond an honours bachelor's degree, and an acceptable thesis. The PhD requires at least two additional years, prescribed courses, examinations and the presentation of a comprehensive thesis. The work of the postgraduate student is carried out under a specified director of research, and his thesis must indicate some original capacity for

research Proof of competence in German or French, or both, is required, there is usually an oral examination, and sometimes the student must publicly defend his thesis.

Advanced degrees are also awarded in such faculties, colleges or schools as medicine, law, dentistry, social work, library science, etc. A prior period of study in another faculty and, more often, a first degree, is required for admission to these professional faculties, which are usually quite separate and distinct entities from the university's faculty of graduate studies and research.

Diploma courses are usually offered at a lower level than degree courses, although they will sometimes signify a further professional qualification, in the case, for example, of a diploma course in medicine open only to MD graduates. More usually, however, diplomas are awarded to those who seek lesser qualification in such fields as nursing, physical education, music, agriculture, etc.

TEACHING STAFF In 1961 there were some 8600 teachers and researchers employed in Canadian universities, ranged among the academic grades, in descending order of rank, of (full) professor, associate professor, assistant professor and lecturer or instructor. Another still more junior grade, not included in the above total, is that of demonstrator, a post which is often filled by post-graduate students. 8600 teachers and 114,000 students represents a student-staff ratio of about 13 to 1.

The main teaching method is the lecture, supplemented by seminars, and in the sciences there are often two hours of laboratory periods for each hour of lectures. In general, university teachers find their own time for research activities, although in some institutions the teaching load will be reduced to make more time available for important research projects. A fairly common pattern of maximum lecture-load is nine hours per week for a full professor, and twelve hours per week for an associate professor. Grants in aid of research are made to individual researchers in about half of the universities, about the same proportion provide funds for travel in connexion with research, for publication of papers and for attendance at meetings of learned societies. Sabbatical leave is established policy at only about one-third of the universities. At most of the others, however, leave of absence for research is usually granted, and the salary paid during leave, whether sabbatical or other, is usually about 50 per cent. of the full-time salary.

During the past decade salaries have more than doubled, the median for all grades now being about \$8000 per annum. Nearly all universities have adopted minimum salary scales for each of the four grades, and in some cases the medians and averages exceed the minima substantially. The minima in the higher-paying universities (it being understood that some are much lower) are as follows: professor, \$12,000; associate, \$9000; assistant, \$7000; lecturer, \$5500.

Tenure is nearly always granted to full professors, and often to associate professors. Pensions and superannuation plans are of all forms and kinds, and in general there is difficulty in transferring a plan from one university to another. This is a complex matter and those coming from abroad are advised to seek individual advice from their university when discussing terms of appointment. (At this time it will be found that only one-third of the universities offer contracts, the others will merely provide a letter of appointment.) More than half of the universities have a fixed pension plan with the amount of the pension running at about 2 per cent. of the final salary (or average salary of the last five years) per year of service. Thus a professor whose terminal salary is \$15,000 and who has served thirty years, should retire with 60 per cent. of \$15,000, or \$9000 a year. This will be recognized, of course, as being one of the more felicitous examples. Vacancies are usually filled as a result of private enquiry between universities. The Canadian Universities Foundation, however, now publishes periodic lists of 'Academic Vacancies in Canadian Universities and Colleges', and it is expected, in view of the importance of recruitment in the years ahead, that universities will make wider use of this and every other method.

The majority of Canadian professors have taken their first degrees in Canada. Although some Canadian graduate faculties are very good indeed, by choice, or by gravitation to the world headquarters of an academic discipline, many Canadians pursue their graduate training in the United Kingdom, the United States or Europe. Commonwealth and United States scholars are numerous in the Canadian universities, those from other countries constitute less than 5 per cent. In general, there are no restrictions based on nationality, and good scholars and teachers from all parts of the world are welcomed.

STUDENTS A 'university student' in Canada is generally taken to mean one who is in full-time attendance during the regular session extending from September until May. There were 114,000 such students enrolled during the 1960-61 session, and it is interesting to note that, although Canada has only one-third of Great Britain's population, this figure exceeds the total number enrolled in that country. The reason is, of course, that a higher proportion of those in the 'college-age group' (for statistical purposes, the population group aged 18-21) attends university in Canada. The proportion now enrolled is 11.2 per cent., and in the years ahead it is estimated that the figure will increase at least to 15 per cent. and possibly even to 20 per cent. Most Canadians, however, would qualify at the 30 per cent. proportion now obtaining in the United States. Several universities, e.g. Sir George Williams and Carleton, in addition to their day-time programmes, operate 'evening divisions' which offer degree courses to those who are employed during the day. Others enrol students in extra-mural courses and in

summer schools from which degree credit may be obtained. In general, however, the road to a Canadian first degree leads directly through three to five years of regular day-time attendance.

Many universities, especially those in the country or in smaller towns and cities, are completely residential. In the metropolitan universities the majority of students live at home or in lodgings, only a minority live in university residences, and these can seldom accommodate all who apply. Annual tuition fees range from a low of \$150 to a high of \$675 a year, depending on the university and the course concerned (e.g. medicine is high). (Note that these fees are substantially lower than those of private universities in the United States.) Room and board costs from \$425 to \$800. On the basis that another \$500 might be budgeted for all other costs, including books, entertainment, laundry, etc., this means that the total cost to a foreign student for one academic year will range from \$1100 to \$2000. Such a student may earn part of this cost through summer employment, but jobs during the four or five months of summer vacation are by no means guaranteed, and may be precluded by department of immigration regulations. Engineering students are commonly required to complete a minimum period of work in industry before their degrees can be conferred, and in cases of this and similar kind the department of immigration does, of course, permit the student to work.

Every student body has its representative 'students' council', usually with headquarters in a students' union, which forms a centre for the maze of activities offered to the students at large, and at many universities the students' council exercises a real degree of autonomy in conducting student affairs. The new student is confronted with a dazzling variety of student activities and clubs to choose from, and his bewilderment is not always ended by his dean's admonition that studies must take priority over extra-curricular affairs. Many universities have Greek letter fraternities. Nearly all universities have training units for the three armed services.

Most universities operate a health service, financed from fees, which includes medical treatment and hospitalization. There is usually a student counsellor and/or an adviser for foreign students, a placement service, a lodgings service, a vocational guidance service, etc. The range of 'welfare' services, however, varies widely from one university to another.

The scale of scholarship assistance, and other forms of student aid, has increased strikingly during recent years. The non-Canadian undergraduate will not usually be eligible for an entrance scholarship, but after he has written his first sessional examinations he will compete on equal terms for university scholarships and be eligible for bursary assistance or student aid. Canadian students now receive greatly increased amounts of aid from their province. In 1959-60 Quebec, for example, awarded \$1,470,000 in 'loan-bourses' to a total of 5400 students. Ontario awards an

automatic scholarship of \$400 to every student who obtains a grade XIII matriculation average of 80 per cent or better. Aid is more meagre in the Atlantic provinces, but the general trend from little to large help is apparent. The principle, at least, is now generally recognized that no talented student should be debarred from university for lack of financial means. One of the most important developments in the past decade may be the provision, through provincial, university and other schemes, of free tuition for every student who can obtain a second-class matriculation average. The federal government has long accepted an obligation to nourish research, and has therefore provided funds for graduate training. In science and technology such grants have been administered by the National Research Council for many years, and since 1958 postgraduate awards in the arts, humanities and social sciences have been made by the Canada Council (see p. 116).

ACADEMIC YEAR The usual academic year runs from the end of September until the middle of May, and is divided into two terms by a two-week break at Christmas.

VACATION COURSES Twenty-nine institutions offer summer courses for which university credit is granted. These generally extend over a six-week period, from early July to mid-August. Correspondence preparation for credit courses is often required and sometimes correspondence work will follow a summer session. It is possible, although not usual, to earn a degree through attendance at summer courses. Most universities, however, require a minimum period of regular attendance to obtain a degree, e.g. at least two regular sessions of resident study. In addition to credit courses, many universities offer summer programmes of general or cultural interest in such fields as fine arts, music, languages, handicrafts, and some hold advanced seminar courses for specialists in fields such as management, psychology, geography, etc.

UNIVERSITY EXTENSION Most universities offer programmes of extension courses, some for degree credit, some for professional advancement (e.g. chartered accountancy) and some as a community service to the public. In the metropolitan universities it is not unusual to find as many extension students thronging the halls and classrooms in the evenings as there are regular undergraduates during the day. The provincial universities often include teacher education programmes in their extension division, and in general university extension comprises what is commonly termed 'adult education'. In some centres the cultural life of the community is largely the activity of the university as expressed through its sponsorship of workshops, programmes and other series of events. An interesting feature is the extension service carried to off-campus areas, especially by the provincial universities, whereby mobile libraries visit outlying areas or the privilege of drawing books from the home university library may be offered.

INTER-UNIVERSITY ORGANIZATIONS The National Conference of Canadian Universities, founded in 1911, voluntarily surrendered its identity in 1958 to two successor organizations known respectively as the National Conference of Canadian Universities and Colleges, and the Canadian Universities Foundation. This re-organization became necessary because the whole assembly of universities, as such, could not administer the federal government grants. The CUF now acts as the executive arm of the NCCUC, it receives and distributes to universities the federal grants, from its administrative headquarters in Ottawa it deals with Commonwealth Scholarships, conducts research and issues publications, and in general carries out all projects which are common to the forty-odd member institutions of the conference.

The president of the NCCUC becomes the *ex-officio* chairman of the CUF, there are twenty-one members appointed to represent groups of institutions divided according to their enrolment. The larger body is thus freed from any administrative concern, and is able to fulfil its primary function as 'the national forum of academic opinion'. The NCCUC meets in plenary session once each year to discuss problems and matters of common interest.

The central office of the CUF includes the important Research and Information Service, which has an extensive library of material on higher education in Canada and abroad, acts as a clearing house for information and publishes studies of problems faced in common by Canada's universities and colleges.

The chairman of the CUF (and president of the NCCUC) for 1961-62 is the Very Reverend H. F. L'Égare, rector of the University of Ottawa. The executive director is Dr. H. W. Jamieson, who succeeded Dr. T. H. Matthews in 1961. The research officer is Dr. E. F. Sheffield. The address of the Canadian Universities Foundation is 77 Metcalfe Street, Ottawa 4, Ontario.

The growth of the Canadian Association of University Teachers has been spectacular during the past ten years. Associations have been formed in thirty-three institutions, and these now represent more than 75 per cent of all full-time teachers in Canadian universities and colleges. A national office was established in 1959 at 77 Metcalfe Street, Ottawa 4, Ontario. The executive secretary is Dr. J. H. Stewart Reid. The CAUT quarterly bulletin reports news and views of the Canadian university scene.

A complete list of university associations and agencies appears in *Canadian Universities and Colleges*, published by the CUF. Others most noteworthy as inter-university organizations are:

Canadian Association of University Business Officers Secretary-Treasurer Mr. D. S. Claringbold, Hart House, University of Toronto, Toronto 5, Ontario.

National Federation of Canadian University Students Executive Secretary: Mr. A.

L'Heureux, 375 Rideau Street, Ottawa, Ontario.

World University Service of Canada General Secretary Mr. D. Mayer, 22 Willecks Street, Toronto 5, Ontario.

THE UNIVERSITIES TO-DAY The problem facing all universities is simple but serious: the inexorable fact is that student enrolment will double in the decade ahead. Earlier projections of 230,000 students by 1970 now seem underestimates in the light of experience, more likely the present number of 114,000 will increase to some 250,000 or 300,000 students by the end of the decade. Experts say that the number of 8,600 teaching staff in the 1960-61 session will have to be increased to 18,000 in 1970-71. Physical facilities will have to be expanded proportionately, new buildings and new universities will have to be built. Financial demands on the universities, and the governments who support them, will be staggering. It becomes progressively more expensive to run a university. During the past decade the operating cost per full-time student has more than doubled—from \$700 in 1950-51 to nearly \$1,500 in 1959-60, and the scale is still rising. The total operating cost of Canada's universities in 1961 is estimated at \$165 million, the experts say this figure may rise to \$650 million in 1971. Capital costs may be gauged by the estimate that in the ten-year period 1955-65 universities will have spent a total of \$700 million in building programmes. In brief, a decade of vast expenditure stretches ahead, and the first problem of the universities and the country as a whole is to find the necessary funds. Secondly, there is the urgent problem of training and recruiting the teachers who will be required; and, lastly, the planning and actual erection of the necessary buildings.

Most universities have welcomed the challenge, declaring they will build, recruit and expand to whatever extent may be required. A very few others, however, are thoughtfully assessing the situation, wondering whether they might not lose their cherished, individual characteristics if they expand beyond a certain optimum number, and whether quality might not inevitably be sacrificed to the inordinate demands of quantity. In whatever way each institution squares off to the problem, there is no doubt that the decade ahead will be the most challenging and the most crucial in the history of Canada's universities.

OTHER INSTITUTIONS OF HIGHER EDUCATION In Canada the terms 'higher education' and 'university education' are almost synonymous. Practically all types of professional or general training beyond the level of secondary school are the responsibility of the universities. The education of lawyers is a university function, as is the training of teachers for secondary schools, while the training of teachers for elementary schools, requiring less than degree qualification, is usually supervised by provincial departments of education. Accountants must meet standards set by their governing professional body, but the universities

work closely with these bodies, and the accountancy student will often take evening courses at a university under the same teachers who supervise the regular undergraduate programme.

North America has never proved hospitable to the European tradition of training technicians to hold jobs at an intermediate stratum in business and industry (It would be heresy to consider that a technician, or any employee, could not rise to the presidency of a corporation.) In recent years, however, advances in technology plus an intermittent shortage of technically trained manpower, has led to the establishment of a number of institutes of technology. There are now twenty-nine such post-secondary institutes, all of them administered as integrated parts of provincial technical and vocational training programmes. In total they enrol some 9400 full-time students. Their distinguishing characteristics are the requirement of junior matriculation for admission, and stress on the application of post-high school mathematics and science. Instruction is in either the engineering-science field, or in the business and service administration field. Graduates of such institutes, whether technical or commercial, are in good demand. This is a relatively new development, and one which may well assume even greater importance in the years ahead.

FURTHER INFORMATION (see also Appendix VI and the 'Publications' section in each university entry below). The Canadian Universities Foundation issues a biennial handbook, *Canadian Universities and Colleges* (latest edition 1960) and reports of the proceedings of the annual meetings of the

National Conference of Canadian Universities and Colleges. The Dominion Bureau of Statistics publishes an annual *Fall Enrolment in Universities and Colleges*, and frequent publications such as *Survey of Higher Education*, *Awards for Graduate Study and Research* and *University Entrance Awards*, etc. The Canadian Universities Foundation publishes frequent research papers such as E. F. Sheffield's *Canadian University and College Enrolment Projected to 1965*, *Financial Needs of Canadian Universities and Colleges 1960*, *Staffing the Universities and Colleges of Canada*, etc., etc. The valuable *Institutions of Higher Education in Canada* was published by the Dominion Bureau of Statistics in 1961.

An historical sketch, including a survey of the humanities, will be found in W. Kirkconnell and A. S. P. Woodhouse, *The Humanities in Canada* (1947). See also the bibliography published in *Canadian Universities and Colleges* of the CUF; also the list of 'Current Publications' published by the CUF. The *Encyclopedia Canadica* contains useful articles, especially 'Colleges Classics' by Maurice LeBel, and 'Universities: Historical Development of English-language Universities' by A. S. P. Woodhouse. See also the annual publication *Répertoire des institutions Canadiennes d'enseignement français*, by the Association Canadienne des Educateurs de Langue Française, Quebec. The bulletins of various bodies and agencies can be extremely useful, and in this regard it is worth noting especially the quarterly bulletins of the Canadian Association of University Teachers.

DIRECTORY TO SUBJECTS OF STUDY

[Source: Research and Information Service, Canadian Universities Foundation]

The Table of first degrees (pp. 122-125) indicates which universities offer first-degree programmes (honours and professional) in eighty-one subjects. The symbol ✓ means that a first degree (honours or professional) can be taken in the subject indicated. All the universities listed with the exception of Nova Scotia Agricultural College and Nova Scotia Technical College offer general or pass degree courses in arts and science. The second degree is normally the master's or licence—at least one year beyond the first degree—and the third is the doctorate, usually requiring at least two additional years. The listing below shows which universities offer courses leading to the master's and doctoral degrees in specified subjects and provides additional information about first-degree programmes and diploma courses in certain fields. Where the doctorate is offered, courses leading to the master's degree are also generally available.

Agriculture The Nova Scotia Agricultural

College offers a two-year diploma course; diploma students may be admitted to the third year of a bachelor's degree course at McGill or Toronto (Ontario Agricultural College, Ontario Veterinary College at Guelph). Master's: Laval, Montreal, Toronto (Ontario Agricultural College). Doctorate: Alberta, British Columbia, McGill (Macdonald College), Manitoba, Saskatchewan.

Air Law Master's: McGill

Architecture Master's: British Columbia, McGill, Manitoba, Toronto

Astronomy Master's: Western Ontario
Doctorate: Toronto

Biology Master's: Acadia, Assumption, Calleton, Memorial, New Brunswick, Doctorate: Alberta, British Columbia, Dalhousie, Laval, McGill, McMaster, Manitoba, Montreal, Ottawa, Queen's, Saskatchewan, Toronto, Western Ontario

[continued on p. 126]

<i>For an explanation of the symbol used, see p. 121</i>	Acadia	Alberta	Assumption	Bishop's	British Columbia	Carleton	Dalhousie	King's	Laval	McGill	McMaster	Manitoba	Memorial	Montreal	Mount Allison	Mount St. Vincent
Agriculture		✓			✓				✓	✓		✓				
Anthropology					✓				✓	✓				✓		
Architecture					✓					✓		✓				
Bacteriology					✓					✓						
Biochemistry		✓	✓		✓				✓	✓	✓	✓		✓		
Biology	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	
Botany		✓			✓				✓	✓	✓	✓				
Business, Commerce	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
Chemistry	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓			
Classics	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
Dentistry		✓					✓			✓		✓		✓		
Economics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Education	✓	✓		✓	✓		✓		✓	✓		✓	✓	✓	✓	✓
Engineering, Chemical		✓	✓		✓				✓	✓	✓					
Engineering, Civil		✓	✓		✓	✓			✓	✓		✓		✓		
Engineering, Electrical		✓	✓		✓	✓			✓	✓	✓	✓		✓		
Engineering, Geological					✓				✓			✓		✓		
Engineering, Mechanical		✓	✓		✓	✓			✓	✓	✓	✓		✓		
Engineering, Metallurgical		✓			✓				✓	✓	✓			✓		
Engineering, Mining		✓			✓				✓	✓				✓		
Engineering, Petroleum		✓														
Engineering Physics		✓	✓		✓	✓	✓		✓	✓	✓	✓		✓		
English	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
Entomology		✓								✓						
Fine Arts					✓						✓	✓			✓	
Food Chemistry, Food Technology					✓											
Forestry					✓				✓							
French	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓		✓	
Genetics		✓								✓						
Geography		✓			✓				✓	✓	✓	✓				
Geology	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	
Geophysics										✓						

In addition to the subjects listed in the Table the following are also available: *Asian studies*—British aeronautical—Toronto; *engineering, industrial*—Toronto, *fisheries*—Laval, *hygiene*—Montreal, *Montreal*; *Polish*—British Columbia, *public administration*—Carleton, *statistics*—Manitoba,

General or pass courses in arts and science are offered by all institutions listed except Nova Scotia listed may be offered by institutions other than those checked as part of programmes leading to

TABLE OF FIRST DEGREES (HONOURS AND PROFESSIONAL)

New Brunswick	N S Agricultural Coll	N S Technical Coll.	Ottawa	Queen's	Royal Military	St Dunstan's	St Francis Xavier	St Joseph's	St Mary's	Saskatchewan	Sherbrooke	St George Williams	Toronto	Western Ontario	
✓		✓								✓			✓		For an explanation of the symbols used, see p. 121
													✓		Agriculture
													✓		Anthropology
													✓		Architecture
													✓		Bacteriology
													✓		Biochemistry
✓			✓	✓			✓			✓			✓	✓	Biology
			✓	✓									✓	✓	Botany
✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Business, Commerce
✓			✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	Chemistry
✓			✓	✓						✓			✓	✓	Classics
													✓		Dentistry
✓				✓	✓					✓			✓	✓	Economics
✓				✓	✓	✓		✓		✓	✓		✓	✓	Education
✓		✓	✓	✓	✓					✓			✓	✓	Engineering, Chemical
✓		✓	✓	✓	✓					✓	✓		✓	✓	Engineering, Civil
✓		✓	✓	✓	✓					✓	✓		✓	✓	Engineering, Electrical
				✓	✓					✓			✓		Engineering, Geological
✓		✓	✓	✓	✓					✓	✓		✓	✓	Engineering, Mechanical
		✓		✓							✓		✓		Engineering, Metallurgical
			✓	✓									✓		Engineering, Mining
				✓	✓					✓			✓		Engineering, Petroleum
				✓	✓					✓			✓		Engineering Physics
✓			✓	✓	✓					✓			✓	✓	English
															Entomology
													✓		Fine Arts
										✓			✓		Food Chemistry, Food Technology
✓													✓		Forestry
✓			✓	✓	✓				✓	✓			✓	✓	French
															Genetics
			✓	✓									✓	✓	Geography
✓			✓	✓			✓			✓			✓	✓	Geology
													✓	✓	Geophysics

Columbia, audiology—Montreal, Toronto, east asian studies—Toronto, engineering, Icelandic—Manitoba, interior design—Manitoba, near eastern studies—Toronto, optometry—surveying—Laval, theatre—British Columbia, Ukrainian—Saskatchewan

Agricultural College and Nova Scotia Technical College In some cases courses in subjects
degrees in other fields [continued on next page]

For an explanation of the symbol used, see p. 121	Acadia	Alberta	Assumption	Bishop's	British Columbia	Carleton	Dalhousie	King's	Laval	McGill	McMaster	Manitoba	Memorial	Montreal	Mount Allison	Mount St Vincent
German	✓	✓			✓		✓	✓	✓	✓	✓	✓				
History	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
Home Economics	✓	✓	✓		✓				✓	✓		✓			✓	✓
International Studies					✓							✓				
Italian					✓											
Journaism						✓										
Law		✓			✓		✓		✓	✓				✓		
Library Science					✓				✓	✓				✓		
Mathematics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Medicine		✓			✓		✓		✓	✓		✓		✓		
Medieval Studies					✓							✓		✓		
Microbiology												✓				
Modern Languages		✓	✓	✓			✓	✓	✓		✓		✓			
Music	✓	✓			✓				✓	✓				✓	✓	✓
Nursing		✓	✓		✓		✓		✓	✓	✓			✓	✓	✓
Nutrition														✓		
Pharmacy		✓			✓		✓		✓			✓		✓		
Philosophy	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	
Physical & Health Education		✓			✓					✓	✓			✓		
Physical & Occupational Therapy		✓			✓					✓		✓		✓		
Physics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Physiology		✓			✓					✓						
Political Science		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓		✓		
Psychology	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓		✓	✓	
Secretarial Science	✓														✓	✓
Slavonic Studies		✓			✓				✓			✓		✓		
Social Work					✓				✓	✓		✓		✓		
Sociology	✓	✓			✓	✓	✓			✓	✓	✓	✓			
Spanish		✓	✓		✓				✓	✓	✓					
Theology	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓		✓		
Veterinary Medicine														✓		
Zoology		✓			✓				✓	✓	✓	✓				

In addition to the subjects listed in the Table the following are also available *asian studies*—British *aeronautical*—Toronto, *engineering, industrial*—Toronto, *fisheries*—Laval, *hygiene*—Montreal, *Montreal*, *Polish*—British Columbia, *public administration*—Carleton, *statistics*—Manitoba, General or pass courses in arts and science are offered by all institutions listed except Nova Scotia listed may be offered by institutions other than those checked as part of programmes leading to

TABLE OF FIRST DEGREES (HONOURS AND PROFESSIONAL)

New Brunswick	N S Agricultural Coll	N S Technical Coll	Ottawa	Queen's	Royal Military	St Dunstan's	St Francis Xavier	St Joseph's	St Mary's	Saskatchewan	Sherbrooke	Sir George Williams	Toronto	Western Ontario	
✓	✓		✓	✓	✓		✓	✓	✓	✓	✓		✓	✓	For an explanation of the symbol used, see p 122
													✓	✓	German
													✓	✓	History
													✓	✓	Home Economics
															International Studies
													✓		Italian
													✓	✓	Journalism
✓			✓	✓						✓	✓		✓	✓	Law
✓					✓		✓			✓			✓	✓	Library Science
			✓	✓						✓			✓	✓	Mathematics
										✓			✓	✓	Medicine
													✓		Medieval Studies
													✓		Microbiology
													✓	✓	Modern Languages
			✓	✓			✓	✓					✓	✓	Music
✓										✓			✓	✓	Nursing
													✓	✓	Nutrition
										✓			✓	✓	Pharmacy
✓			✓	✓					✓	✓			✓	✓	Philosophy
✓			✓	✓						✓			✓	✓	Physical & Health Education
													✓	✓	Physical & Occupational Therapy
✓			✓	✓	✓		✓			✓			✓	✓	Physics
✓				✓						✓			✓	✓	Physiology
✓			✓	✓	✓				✓				✓	✓	Political Science
										✓			✓	✓	Psychology
													✓		Secretarial Science
													✓	✓	Slavonic Studies
			✓										✓	✓	Social Work
✓										✓			✓	✓	Sociology
				✓									✓	✓	Spanish
			✓	✓					✓	✓	✓		✓	✓	Theology
													✓	✓	Veterinary Medicine
													✓	✓	Zoology

Columbia, audiology—Montreal, Toronto, east asiatic studies—Toronto, engineering, Icelandic—Manitoba, interior design—Manitoba, near eastern studies—Toronto, optometry—surveying—Laval, theatre—British Columbia, Ukrainian—Saskatchewan

Agricultural College and Nova Scotia Technical College In some cases courses in subjects degrees in other fields

continued from p 121]

Business or Commerce Diploma Saskatchewan (one year, beyond first degree) Master's Alberta, Assumption, British Columbia, Laval, McMaster, Queen's, Sherbrooke, Toronto Doctorate Montreal, Western Ontario

Canadian Studies Master's Carleton

Chemistry Master's Acadia, Carleton, Memorial, Mount Allison, St. Francis Xavier Doctorate Alberta, Assumption, British Columbia, Dalhousie, Laval, McGill, McMaster, Manitoba, Montreal, New Brunswick, Ottawa, Queen's, Saskatchewan, Toronto, Western Ontario

Child Study Diploma: Toronto (one year beyond first degree)

Classics Master's Acadia, Alberta, Dalhousie, Laval (honour), McGill, McMaster, Manitoba, Mount Allison, New Brunswick, Queen's, Saskatchewan, Western Ontario Doctorate British Columbia, Montreal, Ottawa, Toronto.

Criminology Master's Montreal

Dentistry DDS. see Table (pp 122-123) Diploma Montreal (16 months after DDS) Doctorate Toronto (also offers diploma courses)

East Asiatic Studies Doctorate: Toronto

Economics and/or Political Science Master's Acadia, Assumption, Carleton, Dalhousie, McMaster, Manitoba, New Brunswick, Saskatchewan, Western Ontario Doctorate Alberta, British Columbia, Laval, McGill, Montreal, Ottawa, Queen's, Toronto.

Education or Pedagogy BEd see Table (pp 122-123) Generally a one-year professional course following BA, but Alberta, British Columbia, McGill, Manitoba, Memorial, Montreal and Saskatchewan offer four-year courses from matriculation. Master's Acadia, Bishop's, Dalhousie, McGill, Manitoba, Montreal, Mount Allison, Mount St. Vincent, New Brunswick, St. Francis Xavier, St. Joseph's, St. Mary's, Saskatchewan, Sherbrooke. Doctorate: Alberta, British Columbia, Laval, Ottawa, Toronto

Engineering In the Atlantic region, the first three years (from junior matriculation) of a five-year bachelor of engineering course are taught at Acadia, Dalhousie, Memorial, Mount Allison, St. Dunstan's, St. Francis Xavier, St. Joseph's, St. Mary's, while the two final years are given at the Nova Scotia Technical College

Engineering, Aeronautical Master's Carleton, Laval (aerodynamics) Doctorate Toronto

Engineering, Chemical Master's Assumption, McMaster, Nova Scotia Technical College. Doctorate: Alberta, British Columbia, Laval, McGill, Montreal, Ottawa, Queen's, Saskatchewan, Toronto

Engineering, Civil Master's Assumption, McGill, Manitoba, New Brunswick, Nova Scotia Technical College, Saskatchewan, Toronto Doctorate: Alberta, British Columbia, Laval, Montreal, Ottawa, Queen's.

Engineering, Electrical Master's Alberta, Assumption, McMaster, Manitoba, New Brunswick, Nova Scotia Technical College, Queen's Doctorate British Columbia, Laval, McGill, Montreal, Saskatchewan, Toronto

Engineering, Geological Master's Toronto Doctorate British Columbia, Laval, Montreal, Queen's, Saskatchewan

Engineering, Mechanical Master's Assumption, British Columbia, McMaster, Manitoba, New Brunswick, Nova Scotia Technical College, Queen's, Saskatchewan Doctorate Alberta, Laval, McGill, Montreal, Toronto

Engineering, Metallurgical Master's McGill, McMaster, Nova Scotia Technical College, Queen's Doctorate Alberta, British Columbia, Laval, Montreal, Toronto.

Engineering, Mining Master's British Columbia, McGill, Nova Scotia Technical College, Queen's Doctorate Laval, Montreal.

Engineering, Petroleum Master's Saskatchewan Doctorate Alberta

Engineering Physics Master's McMaster, Manitoba, Doctorate British Columbia, Laval, Montreal, Queen's, Saskatchewan

English Master's Acadia, Alberta, Assumption, Bishop's, Carleton, Dalhousie, McMaster, Manitoba, Memorial, Mount Allison, Mount St. Vincent, New Brunswick, Queen's, Saskatchewan Doctorate British Columbia, Laval, McGill, Montreal, Ottawa, Toronto, Western Ontario

Fine Arts See Table (pp 122-123) Nearly all Canadian universities offer some courses in fine arts as options in the BA course Doctorate (art and archaeology) Toronto

Fisheries Doctorate British Columbia.

Forestry; Forest Engineering Master's New Brunswick, Toronto Doctorate British Columbia, Laval

French Master's: Acadia, Alberta, Carleton, Dalhousie, McGill, McMaster, Manitoba, New Brunswick, Queen's, Saskatchewan Doctorate: British Columbia, Laval, Montreal, Ottawa, Toronto, Western Ontario

Geography Master's Alberta, British Columbia, McMaster, Manitoba, Montreal (honour) Doctorate: Laval, McGill, Ottawa, Toronto, Western Ontario

Geology Master's: Acadia, Dalhousie, Memorial, New Brunswick, St. Francis Xavier Doctorate Alberta, British Columbia, Carleton, Laval, McGill, McMaster, Manitoba, Ottawa, Queen's, Saskatchewan, Toronto, Western Ontario

German Master's Acadia, Alberta, British Columbia, Dalhousie, McGill, McMaster, Manitoba, New Brunswick, Western Ontario. Doctorate: Queen's, Toronto

History Master's Acadia, Assumption, Bishop's, Carleton, Dalhousie, McMaster, Manitoba, Memorial, Mount Allison, New Brunswick, Saskatchewan Doctorate Alberta, British Columbia, Laval, McGill, Montreal, Ottawa, Queen's, Toronto, Western Ontario

Home Economics, Household Science Master's Alberta, McGill, Manitoba, Montreal, Toronto

Hospital Administration Diploma . Toronto (one year beyond first degree) Master's Montreal

Hygiene Master's . Montreal (*licence*) Doctorate . Toronto

Icelandic Master's Manitoba

Industrial Relations Master's . Laval Doctorate Montreal

International Studies Master's British Columbia, Manitoba

Islamic Studies Master's McGill

Journalism Diploma three-year course from junior matriculation offered in the School of Journalism of the University of King's College, Mount St Vincent College & St Mary's University Western Ontario offers a one-year diploma from a bachelor's degree

Language Schools. At several university summer schools, French-speaking students are given an opportunity to study in an English-speaking environment (Queen's and New Brunswick) and English-speaking students in an all-French one (McGill, Mount Allison, Toronto and Western Ontario) Laval, Ottawa and Montreal offer both types of course

Languages In addition to those listed and those included in the Table (see pp. 122-125), the following special courses are available *Arabic*—Toronto, *Chinese*—British Columbia, Toronto, *Gaelic*—St Francis Xavier, *Hebrew*—Alberta, Bishop's, Dalhousie, McMaster, Queen's, Saskatchewan, Toronto, Western Ontario (master's), *Japanese*—British Columbia, *Portuguese*—British Columbia, Toronto.

Law The practice of law in each province is under the jurisdiction of the Law Society of that province Graduation in law from one of the universities listed in the Table and below is normally accepted as the academic standard for the province where the school is located In most provinces, a BA is prerequisite for entering the faculty of law Master's Dalhousie, McGill, Manitoba, Western Ontario Doctorate . Laval, Montreal, Ottawa, Toronto.

Library Science BLS . see Table (pp 124-125) Master's . McGill, Ottawa, Toronto

Linguistics Master's . Alberta Doctorate Laval

Mathematics Master's Acadia, Assumption, Dalhousie, Laval, Manitoba, New Brunswick, Saskatchewan, Western Ontario Doctorate

Alberta, British Columbia, Carleton, McGill, McMaster, Montreal, Ottawa, Queen's, Toronto

Medicine MD . see Table (pp 124-125) Normal prerequisite is three years in arts or science Master's Queen's Doctorate Alberta, British Columbia, Laval, McGill, Manitoba, Montreal, Ottawa, Saskatchewan, Toronto, Western Ontario.

Medieval Studies Doctorate Montreal, Toronto

Meteorology Doctorate McGill

Music Master's Acadia, Laval (*licence*) Doctorate . Montreal, Toronto.

Near Eastern Studies Doctorate Toronto

Nursing See Table (pp 124-125) A bachelor's degree is conferred for a combined hospital and academic course Master's . Western Ontario

Nutrition Doctorate Toronto

Oceanography Master's British Columbia Doctorate Dalhousie

Oriental Languages and Literatures Master's . Manitoba

Pharmacology Master's . Alberta, Dalhousie, Saskatchewan Doctorate British Columbia, Laval, McGill, Manitoba, Montreal, Ottawa, Queen's, Toronto, Western Ontario

Pharmacy Master's . British Columbia, Manitoba, Saskatchewan, Toronto Doctorate . Alberta, Montreal

Philosophy Master's Acadia, Assumption, McGill, McMaster, Manitoba, Mount Allison, New Brunswick, Saskatchewan Doctorate Alberta, British Columbia, Laval, Montreal, Ottawa, Queen's, Toronto, Western Ontario

Physical Education Master's Alberta, British Columbia

Physics Master's Acadia, Assumption, Carleton, Memorial, New Brunswick Doctorate Alberta, British Columbia, Dalhousie, Laval, McGill, McMaster, Manitoba, Montreal, Ottawa, Queen's, Saskatchewan, Toronto, Western Ontario

Psychiatry Diploma (two to four years from MD) Dalhousie, Manitoba, McGill, Toronto. Master's Saskatchewan

Psychology Master's Acadia, Assumption, Carleton, Dalhousie, Manitoba, New Brunswick, Saskatchewan Doctorate British Columbia, Laval, McGill, McMaster, Montreal, Ottawa, Queen's, Toronto, Western Ontario

Public Administration Master's Carleton, Toronto

Public Health Almost all schools of nursing give a one-year course for graduate nurses Master's Queen's Doctorate Montreal, Toronto

Slavonic Studies Master's Alberta, British Columbia, Manitoba, Toronto Doctorate Montreal, Ottawa

Social Work. First degree (BSW or MSW) .

see Table (pp 124-125) Generally BA or BSc is prerequisite Maritime School of Social Work (Halifax) conducts two-year programme, degree is awarded by Acadia, King's, Mount Allison, St Francis Xavier and St Mary's Master's - British Columbia, Laval, Manitoba. Doctorate - Montreal, Toronto.

Sociology and/or Anthropology Master's Acadia, Alberta, Carleton, Dalhousie, McGill, McMaster, Manitoba, New Brunswick, Saskat-

chewan. Doctorate British Columbia, Laval, Montreal, Ottawa, Toronto

Spanish Master's Alberta, British Columbia, Laval (licence), Queen's, Western Ontario Doctorate Toronto

Statistics Master's Manitoba, Western Ontario Doctorate Alberta, Toronto

Veterinary Science Doctorate Toronto (Ontario Veterinary College at Guelph)

B. STATISTICS

[Source: Dominion Bureau of Statistics *]

TOTAL STUDENT ENROLMENT. The estimated full-time university-grade student enrolment in all Canadian universities and colleges in the autumn of 1960 was 114,000 (an increase of 11.8 per cent. over the corresponding figure for 1959). An estimated 27,500 women were included. The total was divided among faculties as follows: I *Undergraduate* arts and letters, 42,054, pure science, 9,237, agriculture, 1,886, architecture, 643; commerce and business administration, 6,343; dentistry, 1,084, education, 10,473, engineering and applied science, 15,190, fine and applied arts, 91, forestry, 686, household science, 1,598, journalism, 107, law, 2,480, library science, 195, medicine, 4,244, music, 397, nursing, 1,630, optometry, 120, pharmacy, 1,482; physical and health education, 1,114, physio- and occupational therapy, 476, secretarial science, 221, social work, 775; theology, 2,447, veterinary science, 466, others, 4,021 II *Postgraduate*: 6,518. In addition to these 112,429 students an estimated 1,571 were enrolled at certain small institutions, mainly in undergraduate arts and theology

STUDENTS FROM OTHER COUNTRIES Some 5,987 students from other countries were attending Canadian universities and colleges in 1958-59. The countries from which they came were: Afghanistan, 1; Africa, 16, Angola, 1, Argentina, 1, Antigua, 1, Australia, 23, Austria, 5, Azores, 2, Bahamas, 18, Barbados, 51; Belgium, 32, Bermuda, 63, Bolivia, 4, Brazil, 14, British Guiana, 38, British Honduras, 5, British West Indies, 15; Bulgaria, 2; Burma, 7; Cambodia, 15, Central America, 9, Ceylon, 18, Chile, 8, China, 33, Colombia, 18, Costa Rica, 6, Cuba, 41, Cyprus, 1, Czechoslovakia, 7; Denmark, 7; Dominica, 3, Dominican Republic, 5, Ecuador, 4, Egypt, 16; Eire, 22, El Salvador, 2, Eritrea, 1, Estonia, 2, Ethiopia, 16, Europe, 77, Finland, 2, Formosa, 7; France, 137, Ghana, 31, Germany, 87, Grenada, 20; Greece, 53, Guatemala, 4, Haiti, 29; Hawaii, 2, Honduras, 5, Hong Kong, 613, Hungary, 59, Iceland, 2,

India, 155; Indonesia, 49, Iran, 8, Iraq, 1; Israel, 14, Italy, 39, Jamaica, 290; Japan, 58, Jerusalem, 1, Jordan, 3, Kenya, 7, Korea, 15, Laos, 6, Latvia, 2, Lebanon, 18, Liberia, 1, Macao, 8, Malaya, 18, Malta, 2, Mexico, 23, Montserrat, 7, Morocco, 2, Netherlands West Indies, 15, Netherlands, 86, New Zealand, 8, Nicaragua, 5; Nigeria, 22, North Borneo, 3, Norway, 15, Pakistan, 52, Panama, 7, Peru, 16, Philippines, 11, Poland, 2, Portugal, 5, Portuguese West Africa, 1, Puerto Rico, 7, Rhodesia, 4, St Kitts, 8, St Lucia, 30, St Pierre & Miquelon, 4, St Vincent, 4, Singapore, 4, slavic countries, 21, South Africa, 30, South America, 12, Southern Rhodesia, 3, Spain, 7, Sudan, 1, Sweden, 5, Switzerland, 14, Syria, 3, Thailand, 4, Tobago, 9, Trinidad, 575, Turkey, 13, United Kingdom, 526, U.S.A., 1983, Venezuela, 34, Vietnam, 20, Virgin Islands, 1, West Africa, 1, Yugoslavia, 5 Total 5,987

DEGREES AND DIPLOMAS AWARDED (1958-59)
Bachelor and first professional degrees (total 17,080) ¶ agriculture, 294, architecture, 91, arts, 6,389; pure science, 11,877, chiropractic, 35, commerce and business administration (including secretarial science), 1,007, dentistry, 196, education (excluding undergraduate or graduate diplomas), 17,499, engineering, 20,477, fine and applied arts, 8, forestry, 150, home economics, 232, interior design, 14; journalism, 20; law, 722, library science, 83, medicine, 842, music, 59, nursing (excluding undergraduate or graduate diplomas), 230, physio- and occupational therapy, 130, optometry, 22, pharmacy, 296; physical and health education, 103, social work (includes BSW and MSW where it is the first degree offered by an institution), 197, theology (includes first degrees and their equivalent only) catholic 542, protestant 328, veterinary science, 68, others, 37 *Master and licence degrees* (excluding first professional): master of arts, 10,12; master of science, 463, licence, 213 *Doctorates* earned, 284.

* The D.B.S. figures quoted in this section cover a rather wider range of institutions than are listed in the Yearbook

¶ Not elsewhere classified.

|| Excludes about 500 Hungarian refugee students who will presumably become residents of Canada. Most of the 59 included were probably refugees

¶ Includes equivalent diplomas as, for example, in theology, and honours degrees.

ACADIA UNIVERSITY*

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Biology		MA	Assoc Prof
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Bleakney, J S, PhD McG, MSc	Prof	Spence, G D, BSc N S T C	Assoc Prof
Ellis, Jacqueline, MSc Dal, PhD McG,	Assoc Prof	De Wolfe, E L, BE N S T C, BA	Assoc Prof
BSc		Turner, F, BE N S T C	Assoc Prof
Bent, F C, PhD Corn, BSc	Assoc Prof	Parker, R E, BE N S T C	Asst Prof
Dodds, D G, PhD Corn		English Language and Literature	
(Wild Life Management) Visiting Prof		Gillon, A, MA Jerusalem, PhD Col	Prof
Chemistry		Jewitt, A R, BA Hon LLD Dal,	
Small, C W, MA Tor, BSc	Prof	MA Oron, PhD Corn, Hon DCL	Prof
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Hansen, E S, PhD Yale, BSc	Prof	Wanamaker, M, MA Qu, BA BEd	(on leave) Assoc Prof
Cheney, G, MSc Dal., PhD Pitt	Assoc Prof.	Sheriff, J, MA Tor	Assoc Prof.
Classics		Blandford, A S, BA Mt All, MA Tor	Asst Prof.
Neatby, L. H, MA Sask, PhD Tor	Prof	Edwards, Mary J, BA Tor, MA Qu	Lectr
Economic Science		French, see Romance Lang²	
Mosher, J. I, AM Harv, BA	Prof	Geology	
Morse, N H., PhD Tor, MA Tor & Acad	Prof	Cameron, H, MSc McG, BSc, FGSA	Sanders Prof
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Education			
Marshall, M. V., EdD Harv, BA BSc	Prof		

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Peck, Mrs Jean R., BSc(HEC) †Insti
Howitt, Mrs Katherine, BSc(HEC) †Instr
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Kelly, F. G., BA Assoc. Prof
- Aberdeen, S W**, BS *Tusculum*, MS *Springfield*
MacVicar, N H., BA BEd Assoc Prof
MacVicar, Mrs Mary Assoc. Prof Lectr.
- Physics**
Noble, W J., BSc *New Br*, MSc *Dal*, MA *Tor*, PhD *Edin* Prof.
Magarvey, R., MSc *McG*, BSc Prof
Tillotson, J G., BSc *Mam.*, MSc *W Ont* Prof
Van der Baaren, D., BSc *Indonesia*, MA *Bandung* Assoc Prof.
- Political Science**
Fraser, D G. L., MA Prof.
- Psychology**
Giant, Marion E., MA DPed *Tor*, LLD *New Br*, BA Prof
Denton, L. R., MA *Dal*, BA Asst Prof
- Romance Languages**
Raysku-Kiedicz, K., MagPhil *Cracow*, DèS *L Paris* Prof.
Bentley, C A., PhD *Vienna* Assoc Prof.
Taylor, Anna J., BA *Dal*, AM *Col*. Assoc. Prof
Thierman, Louis, BA *Sask*, MA PhD *Mich* Assoc Prof.
- Secretarial Science**
Marsh, Jean, BA *W Ont.*, AM *Col.*, DiplEd *Ont Coll of Educn* Assoc Prof.
Kinsman, E B., LLB *Dal*, BA †Lectr
- Spanish, see Romance Langs.**
- THEOLOGY**
Biblical Literature and Interpretation
Lovesey, M. R. B., BSc *Birm.*, BD MTh Lond, MA *Oxon* Prof
Levy, G. E., MA *McG.*, BD ThD *United Theol Coll (P.Q.)*, BA Assoc Prof.
- Church History**
Whidden, E MacD., MA *McM*, BD *Yale*, Hon DD *Pine Hill & McM* Prof
- Practical Theology**
Merrick, E C., BA Hon DD *McM* Armstrong Prof
Taylor, C., STM *Andover Newton*, BA BD Assoc Prof.
Roberts, E Lectr.
- Systematic Theology**
Cherry, M R., AB *Ouachita*, BD ThD S *Baptist Theol Sem* Prof.
- ADMINISTRATIVE AND OTHER STAFF**
Dean of Women Mrs Ethel V. Kinsman.
Univ. Physician, H M Summs, MD CM *Dal*,
BSc. Field Representative J. M. Scott, BA
BD. Plant Supt., R. Roscoe, BSc. Dietitian.
Elizabeth Stuart, BSc(HEC).

ASSOCIATED INSTITUTION

MARITIME SCHOOL OF SOCIAL WORK, Halifax, N.S. (tel. Halifax 3-6907) Founded 1941 Provides 2 yrs' professional trg. leading to degree of Master of Social Work (MSW) of Acadia for

approved grads. of Acadia and other recog. univs. Dir.—L. T. Hancock, MA *Chc* & K.C.N.S., BSW *McG*

GENERAL INFORMATION

Founded, as Queen's Coll., in 1838 by the N.S. Baptist Educational Society, Acadia Coll. ('Acadia' is a Latinized form of 'Acadie', the earlier Acadian name for Nova Scotia) was incorporated in 1840 by act of the N.S. legislature, with the powers of a univ. and the name changed to Acadia Univ. by an act of legislature in 1891. Endowment, \$2,000,000, physical plant, \$8,000,000.

CONSTITUTION The bd. of governors is appointed by the Baptist Convention of the maritime provinces, but the students and faculty are subject to no religious tests. Of the 30 governors, 14 are nominated by the 'associated alumni' of the univ. By the 1840 act of incorporation and subsequent legislative amendments, the bd. of governors has authority over all matters of property, finance and discipline, and all appts. of academic or admin. staff. The senate, consisting of pres., provost, deans, chairman of governors, and 12 other persons apptd. by bd. of governors, has final authority over all academic matters including curricula, and grants dipl. and degrees in all depts. and facs. For purposes of routine admin., the bd. delegates its powers of discipline to the facs. Curricula and exams. are the province of the facs., subject to final confirmation of senate. The pres. is chairman of senate and of the combined facs., and *ex officio* a member of bd. of governors.

INCOME (1959-60). Total operating income, \$1,081,992. Of the non-residential income, the sources were: fees, 44 per cent.; federal govt. grant, 22 per cent.; provincial govt. grant, 7.8 per cent.; endowment, 13.2 per cent.; Baptist churches, 2 per cent.; other gifts, 3.2 per cent.; other income, 7.8 per cent.

FACULTIES AND DEANS (1961-62). *Arts & sci.*, Prof. R. S. Longley (hist.); *educn.*, Prof. M. V. Marshall; *engin.*, . . . , *home econ.*, Prof. Elizabeth MacMillan, *music*, Prof. E. A. Collins, *theol.*, Prof. E. MacD. Whidden (church hist.). *Sec. sci.* (dir.), Assoc. Prof. Jean Marsh.

UNIVERSITY PRECINCT. 100 acres of lawn, park and playing fields have been landscaped over the past century. Some 31 bldgs. have been erected and an architect's master plan projects still others. This is a residential univ. in a town of 2400 pop.

LIBRARY. 110,000 vols. Sp. collections include Eric Dennis and John D. Logan collections of Canadiana.

LABORATORIES. Biol. chem., *geol., phys., engin., home econ. Green-houses and arboretum. Astronomical observatory.

ADMISSION. See Appendix III

FIRST DEGREES. BA, BSc—4 yrs. from jr. matric (for hon. 4-5 yrs., 80 per cent. standing and thesis), hon. may be taken in biol., chem., econ., Engl., French, geol., hist., home econ., Latin, maths, philos., phys., psychol., sociol. BCom, BTh, BSc(HEC)—4 yrs. from jr. matric., BMus—4 yrs. from jr. matric. and concert recital.

Limited number of correspondence courses for credit, chiefly at 1st-yr. level.

HIGHER DEGREES. MA (can be taken in econ., Engl., French, hist., German, Greek, Latin, maths., psychol., sociol.), MSc (can be taken in biol., chem., geol., maths., phys., psychol.), MMus—1 yr. beyond bachelor's degree, 80 per cent. standing on master's courses, and thesis; BEd—1 yr. beyond BA or BSc; MEd—1 yr. (or 4 summer sessions) and thesis beyond BEd; MSW—2 yrs. at Maritime Sch. of Soc. Work (see above) beyond bachelor's degree; BD—3 yrs. and thesis beyond BA.

HONORARY DEGREES. DCL, DLitt, DSc, DD, MusD.

The univ. does not award EXTERNAL DEGREES.

DIPLOMAS. 3 yrs. from jr. matric—secretarial sci. dipl., 3 yrs. from jr. matric plus 1 yr. pedagogy—sr. dipl. in educn., 2 yrs. from jr. matric plus pedagogy—jr. dipl. in educn.

CERTIFICATES. 3 yrs. from jr. matric—cert. in appl. sci., 2 yrs. from jr. matric—jr. arts cert. in women's leadership trg. The appl. sci. cert. enables students to enter without exam into the Nova Scotia Tech. Coll. and the 4th-yr. classes of McGill Univ.'s fac. of engin.

LICENTIATESHIP. 3 yrs. from jr. matric.—licentiate in music.

RESEARCH. An Acadia univ. inst., incorporated in 1956, plans and supervises res. projects for profs. and advanced students. Recent projects have examined economic problems of the adjacent region of N.S.

STUDY LEAVE. Members of the faculty may have a year of study leave on half-salary after seven years of service.

FEES. Annual tuition (incl. lab. and gen. fees): BA, \$385, MA, \$360, BCom, \$400; BEd, \$385, BSc(HEC), \$430; BMus, \$440, BSc, \$415, MSc, \$370, BTh, BD, \$355, DiplEd, \$385, LicMus, \$420, EngCert, \$450, SecSciDip, \$405.

ACADEMIC YEAR. Sept. to May 2 terms of 15 wks. each, separated by Christmas vac.

SUMMER SCHOOL. Graduate courses of study available for teachers of the province wishing to qualify for the master's degree in education, which is a necessary qualification for academic licence issued by department of education of Nova Scotia. 4 summer sessions are required as equivalent of 1 full academic year. All the work for the master's degree must be carried out in one department. Classes are also offered in undergraduate work and to a limited extent in elementary foreign languages.

PRINCIPAL 'OPEN' ENTRANCE AWARDS. A number of scholarships are open for competition each year on the basis of exams of the province of Nova Scotia. The university also has a number of bursaries which may be awarded to deserving students. Details in university calendar.

GRADUATE SCHOLARSHIPS. Bursary teaching fellowship in biology, \$500 plus fees.

EMPLOYMENT. A joint faculty-student committee co-operates with the placement service of the federal department of labour.

GRADUATES. The grade of Acadia University have been organized since 1860 as the 'Associated Alumni', with annually elected officers and a paid secretary-treasurer. They edit an official publication, the *Acadia Bulletin* (6 times a year), and nominate 14 members to the university's board of governors.

RESIDENCE. (Room and board, \$540 a year). For women: Whitman House (warden, Mrs Ethel V. Kinsman), 119 students; Seminary

House (warden, Mrs Lilian Hopkins), 100; Blomdon House (warden, Mrs Roger Inness), 70. For men: Memorial House (warden, R MacDonald), 187; Horton House (warden, G E Cheney), 80; Willett House (warden, A W MacIntosh), 64; Chipman House (warden, N H MacVicar), 118; Evangeline House (warden, F C Bent), 70.

DEFENCE TRAINING. (a) Acadia university naval training division. Staff officer, Lt H L Cameron. (b) Acadia university contingent, C O T C (C) Major D. G L Fraser. (c) R C A F (Reserve) detachment. Air liaison officer. F/O R H MacNeill.

STUDENT HEALTH SERVICE. The university has its own resident physician, nursing service and hospital wards for men and women.

STUDENTS' UNION. Union union building, administered by a student committee, has a cafeteria, student offices and a reception room.

ATHLETIC FACILITIES. Memorial gymnasium with swimming pool, games floor and running track; Raymond field, with facilities for football, baseball, ground hockey and track, university rink with artificial ice for ice hockey and skating.

PUBLICATIONS. *Calendar* (Feb., gratis on request). *Students' Year Book* (May); *Athenaeum* (weekly, Oct. to April). Official history: *Acadia University, 1838-1939*, by R. S. Longley (Wolfville, 1939, 0 p.), *Acadia Bulletin* (6 times a year).

• THE YEAR 1960

PRINCIPAL BENEFACTIONS. Estate of J McConnell, \$129,766 (Total value of all benefactions received \$190,000.)

— **MAJOR BUILDING DEVELOPMENTS.** Buildings completed: new chemistry lab., fourth men's hall of residence (to accommodate 118).

RETIREMENTS. Ruth Morgan (music), Mrs. Genevieve Allan (home econ).

RESIGNATIONS. P G. Cornell (hist.), appointed professor of history, Waterloo University, W. Kuth (Ger.), appointed associate professor, Wooster, Ohio, R. A. Lucas (econ sci.), appointed to post in public service, W. K. Thomas (Engl.), appointed professor of English, Waterloo University, H. H. Way (psychol.), appointed to Oklahoma State College; A. G. Wilson (hist.), appointed associate professor, W. Ont.

HONORARY DEGREES. DCL—H. Borden, president, Brazilian Traction, Olive Diefenbaker, wife of prime minister, Hon. E. D. Haliburton, N.S. minister of agriculture; C. B. Messenger, investment expert, M. G. Ross, president, York University, W. O. Twiss, president, Imperial Oil Company. DD—Rev. G. H. Baker, veteran clergyman, Rev. W. F. Forgey, professor, Andover Newton. DSc—F. M. Archibald, chem. researcher; H. G. Thode, atomic scientist. MA—W. L. Barteaux, school principal, Elizabeth Rand, president, Women's Institute of Canada.

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	610	11
Women	274	15
Total	884	26

Distribution by Faculties: Arts, 319; comm., 55; education, 45; engineering, 128; home econ., 36; music, 26; sci., 225; sec. sci., 63; theol., 13. Total 910.

Included in the figures above are —

Postgraduate students, 52

New admissions, 380

Students from other countries, 78. (Countries from which largest numbers came: U.S.A., 42; Hong Kong, 19; W. Indies Fed., 9.)

DEGREES AWARDED (1959-60). Arts: BA, 57; BA (hons.), 4; MA, 3. Comm.: BCom, 9. Education: BEd, 31. Home econ.: BSc(HEC), 13. Sci.: BSc, 35; BSc (hons.), 1; MSc, 4. Theol.: BTh, 1; BD, 2. Total number of first degrees awarded, 120.

DIPLOMAS AWARDED (1959-60). SrDipEd, 12; JrDipEd, 6; LicMus, 2; SecSci, 8.

CERTIFICATES AWARDED (1959-60). Engin., 15

UNIVERSITY OF ALBERTA

Founded 1906

Postal Address: Edmonton, Alberta, Canada

Cables and Telegrams: UERA

Telephone (Registrar) Geneva 9-4951, Ext. 217

VISITOR—The Hon J P PAGE, Lieutenant-Governor of Alberta

CHANCELLOR—Judge L Y CAIRNS, BA Hon LLD

CHAIRMAN OF BOARD OF GOVERNORS—C M MACLEOD, QC, Hon LLD

PRESIDENT—W H JOHNS, BA Hon LLD *W Ont*, PhD *Conn*

VICE-PRESIDENT—L H CRAGG, MA PhD *Tor*, FCIC

PRINCIPAL (CALGARY)—M G TAYLOR, MA PhD *Calif*

PROVOST AND EXECUTIVE ASSISTANT TO PRESIDENT—A A RYAN, MA

DEANS OF FACULTIES—AGRICULTURE—C F BENTLEY, PhD *Minn*, MSc (Soil Sc[§]); ARS AND SCIENCE—D E SMITH, MA *Qu*, PhD *Harv* (Psychol); COMMERCE—H HARRIS, MS PhD *Iowa*, MA *Tor*, BSc, DENTISTRY—H R MACLEAN, DDS, FACD (Oper Dent), EDUCATION—H T COUTTS, BA *Tor*, PhD *Minn*, MA (Educnl Adm), ENGINEERING—G W GOVIER, BASc *Br Col*, ScD *Mich*, MSc (Chem Engin), GRADUATE STUDIES—A G MCCALLA, PhD *Calif*, MSc, FRSCan, LAW—W F BOWKER, QC, LL.M *Minn*, BA LLB (Jurisp), MEDICINE—W C MACKENZIE, BSc MD CM *Dal*, MS *Minn*, FACS, FRCSCan (Surg & Clin Surg), PHARMACY—M J HUSTON, PhD *Wash*, MSc

DIRECTORS OF SCHOOLS—HOUSEHOLD ECONOMICS—ELIZABETH L EMERY, MNS *Conn*, PhD *Conn* & *Col*, BSc, NURSING—RUTH E McCLURE, MPH *Pitt*, BSc; PHYSICAL EDUCATION—M L VAN VLIET, MS *Oregon*, EdD *Calif*, PHYSICAL THERAPY AND OCCUPATIONAL THERAPY—J R FOWLER, MD

REGISTRAR—A D CAIRNS, BA

LIBRARIAN—B B PIRL, MA *Sask*, BLS *Tor*

BURSAR—J M WHIDDEN, BCom

TEACHING STAFF

[* = at Calgary, | = Part-Time]

Accounting, see Comm

Agriculture, see below

Anatomy, see Medicine

Bacteriology, see Medicine

Biochemistry

Collier, H. B., MA PhD *Tor*, FRSCan P10f
Tuba, J., MSc *Sask*, PhD *Tor* Prof
Smillie, L. B., BSc *McM*, MA PhD *Tor*
Assoc P10f
Spencer, Mrs Mary S., BA *Sask*,
MA *Bryn Mawr*, PhD *Calif* Assoc Prof
Kay, C. M., BSc *McG*, PhD *Harv* Assoc P10f
Pritchard, E. T., BSc *Cal*, MSc *McG*,
PhD *W Ont* Asst P10f

McLeod, L. E., MSc *McG*, BSc MD,
FRCPCan Hon Lectr
Campbell, D. J., MS PhD *Purdue*, BSc Inst
Stewart, A. G., MA *Qu*, PhD *W Ont* Hon Instr
& Teaching Asst |

Botany

Brodie, H. J., MSc *Manit*, PhD *Mich* Prof
Colmack, R. G. II, MA PhD *Tor*,
FRSCan Prof
Whyte, J. H., BSc(Agric) *Edm*, MSc
PhD *McG* P10f
Prince, A. R., BA *Acad*, PhD *Harv*,
BEd *Assoc Prof
Kennedy, Lorene L., PhD *Iowa*, MSc
Assoc Prof

§ Member of the Association of Universities of the British Commonwealth

MacLachlan, G. A., MA *Sask*, PhD *Manit*

Asst Prof.

Packer, J. G., BSc *Lond*

Asst Prof.

Business Administration, see Comm**Chemistry**Gunning, H. E., MA PhD *Tor* ProfBrown, R. K., PhD *McG*, MSc ProfSandin, R. B., PhD *Chc*, MA, FRSCan ProfCragg, L. H., MA PhD *Tor* ProfLemieux, R. U., PhD *McG*, BSc ProfDavis, S. G., PhD *McG*, MSc Assoc Prof.Harris, W. E., PhD *Minn*, MSc Assoc Prof.Allen, W. F., BSc *W Ont.*, MAPhD *Tor*, *Assoc. ProfHyne, J. B., BSc PhD *St And* Assoc. Prof.Wallace, W. J., BA *Br. Col.*, PhD *Purdus* Assoc. ProfBetts, D. D., MSc *Dal*, PhD *McG* Assoc ProfDunford, H. B., PhD *McG*, MSc Assoc ProfCrawford, R. J., PhD *Ill*, MSc Asst ProfO'Brien, R. N., MAsc *Br. Col.*, PhD *Manc* Asst ProfAdam, F. C., MSc *Br. Col.*, PhD *Wash. (Mo.)* *Asst Prof.Armstrong, D. A., BSc PhD *McG* *Asst Prof.Ayer, W. A., BSc PhD *New Br* Asst Prof.Darwish, D. E., PhD *Calif.*, BSc Asst ProfFreeman, G. R., MA *Sask*, PhD *McG*, DPhil *Oxon* Asst Prof.Kebartle, P., DipIngChem *E.T.H. Zürich*, PhD *Br. Col.* Asst ProfBiras, F. W., MA *Sask*, DPhil *Oxon* Asst ProfKrueger, P. J., MSc *Manit*, DPhil *Oxon* *Asst Prof.Paterson, W., MSc *Manit*, PhD *McG* Asst Prof.Koppecky, K. R., BSc *Iowa*, PhD *Calif* Asst ProfBenn, M. H., BSc PhD *Lond* *Asst Prof.**Classics**Hardy, W. G., MA *Tor*, PhD *Chc* Prof.Wmspear, A. D., BA *Qu.*, MA *Oxon* *Assoc ProfBuck, R. J., MA *Kentucky*, PhD *Cinc.*, BA Asst ProfMay, E. C., AB *Trin Coll. Hartford*, AM PhD *Prim* Asst Prof.MacKenzie, Margery W., AM *Stan*, BA BEd Asst Prof., Radio Dir.**Commerce**Harriss, H., MS PhD *Iowa*, MA *Tor*, BSc ProfCampbell, J. D., MCom *Qu.*, CA (Acctg.) ProfLetch, L. C., LLB *Manit*, MBA *Chc* Assoc ProfGoodale, D., BCom *Sask* (Acctg.) Assoc ProfCrowston, W. B. S., BASc *Tor.*, SM *M.I.T.* Asst ProfKyle, J. D., BA *Br. Col.*, MBA *W Ont.* (Bus. Admin.) Asst ProfPresling, W. A., MBA *W Ont*, BEd

BA (Bus. Admin.) Asst Prof

Rankin, A. S., BSc(Econ) *Lond*, CA

(Acctg.) Asst Prof

Rollins, B., BCom, CA Asst Prof

Economics, see Pol Econ.**Educational Administration**Reeves, A. W., MA *Chic*, EdD *Stan*, BA ProfCourtis, H. T., BA *Tor*, PhD *Minn*, MA ProfDoucette, A. L., BScnCE *Dal*, EdD *Stan.*, *MA

*Prof., Assoc Dean, Calgary

Sparby, H. T., PhD *Stan*, BSc MA ProfMowat, G. L., BSc *Brigham Young*, MA EdD *Stan* ProfAikenhead, J. D., BSc *Manit*, MA *Chic*, DEd *Oregon* *Assoc ProfAndrews, J. H. M., MA *Br. Col.*, PhD *Chc* Assoc ProfDowney, L. W., BA *Sask & Br. Col.*, PhD *Chc* Assoc ProfMeisness, H. C., MA *Minn*, BSc Assoc ProfWorth, W. H., EdD *Stan*, MEd Assoc Prof

Cheal, J. E., MEd Asst Prof

Brown, A. F., BA BEd *Manit*, MEd Asst Prof

Enns, F., MEd PhD Asst Prof

Educational PsychologyDunlop, G. M., BA *Sask*, PhD *Col.*, MA Prof.Gilles, J. W., EdD *Stan*, MA MEd Prof., Dir. of Summer SessionMacArthur, R. S., PhD *Lond.*, MEd ProfBlack, D. B., EdD *Wash*, MEd ProfWoodsworth, J. G., EdD *Stan.*, BA BEd *Assoc. ProfAnderson, C. C., MA EdB *Glas*, PhD *Camb.* Assoc ProfHarper, R. J. C., MA *St And & Edm* Assoc ProfAyers, J. D., BA BEd *Br. Col.*, PhD *Tor* Assoc ProfSchonfield, A. E. D., MA *Camb.* *Assoc ProfChrntensen, C. M., MA PhD *Minn* Assoc ProfDockrell, W. B., BA *Manc*, BEd *Edm* Asst ProfMacDonald, J., MA *Edm.*, EdB PhD *Glas* Asst ProfStewart, J. A., BA *Br. Col.*, MA PhD *Wash.* *Asst Prof

Hunka, S., MEd Asst Prof

Elley, W. B., MA *N.Z.*, MEd *Br. Col* Asst ProfSnider, J. G., MS *Idaho* *Asst ProfFrost, B. P., BA *Syd*, MA *Tas* *Asst Prof**Education, Elementary**McDougall, W. D., EdD *Col*, MA ProfFinn, T. G., EdD *AM Stan*, BA *Prof., Asst Dir of Summer Session, CalgaryLampard, Dorothy M., BA *Manit*, MA *Chc* *Assoc. ProfNewton, Bertha M., BScnEd *S Calif*, AM *Chc* *Assoc. Prof

Stadelbauer, Helen B, BSc AM Col
 Worth, W H, EdD Stan, MED (Art) *Assoc Prof
 Forbes, J A, MEd (Art) Assoc Prof
 Hampson, C G, BA Assoc Prof
 Nelson, L D, MEd Assoc Prof
 Dey, Jeon D, BEd Assoc Prof
 Smith, A A, MMus Tor (Music) Assoc Prof
 Jenkinson, Mrs Marion E D, BA Manc, Phd Chic Assoc Prof
 Affleck, Muriel A, BEd Assoc Prof
 Churchley, E F, MusBac Tor, MA EdD Col (Music) *Asst Prof
 King, Ethel M, MA Iowa, BEd *Asst Prof
 Norris, S, MA Stan, BEd *Asst Prof
 Dodd, E M, BA Durh, MA Ohio State *Asst Prof

Doolittle, Q D, BA Ithaca, MM Indiana *Asst Prof
 Moore, Evelyn R, MA Syd Asst Prof
 Diemert, Helen M, BA St Jos, MA Msm Asst Prof
 Beaton, Mary A, BSc MEd *Asst Prof
 Filipkowski, Elizabeth H, BEd Asst Prof
 Andrews, E E, MEd Asst Prof
 Reese, W F, BS U.S. Merchant Marine Acad Asst Prof
 Gandy, W E, AM Colorado, EdD Stan Asst Prof

Education, Secondary

Baker, H S, BA Tor, PhD Col, MA Prof
 Buxton, E W, MA Wash, EdD Stan, BA BEd *Prof
 Pilkington, W, MA BEd Prof
 Landstedt, S A, BSc *Assoc Prof
 Storey, A. G., BA BEd Sask, MEd *Assoc Prof
 Berry, G L, MA BEd Assoc Prof
 Crawford, D., BSc MA EdB Glas. Asst Prof
 Farmer, Geraldine M., MA Msm., BEd Asst Prof
 Nay, M A, MSc BEd Asst Prof
 Anderson, R N, BA BEd Sask., MA Msm, EdD Col *Asst Prof
 Godwin, Lois R, MEd Asst Prof
 Boone, L. B., BA Iowa, MA Colorado Asst Prof
 Eccles, Mrs Priscilla J., MS EdD Ill Asst Prof
 Chorny, M., MEd Asst Prof
 Coulson, W. F., BS Iowa, MA Msm Asst Prof

Educational Foundations

Walker, B E, PhD Stan, MA Prof
 Card, B Y, BSc BEd Assoc Prof
 Earl, S A, BSc Brigham Young, MEd Montana Assoc Prof
 Thomson, K H, EdD Calif, MA MEd Assoc Prof
 Lupul, M. R., MA Msm, BA BEd Asst Prof

Engineering, see below

English

Jones, J. T., MA Oxon & Alia Prof.
 Salter, F. M., BA Dal, MA Phd Chic, Hon DLitt Tor, FRScan, FRSL Prof
 Scargill, M H, BA Phd Leeds *Prof
 Kresel, H, MA Tor, Phd Lond. Prof
 Ryan, A A, MA Assoc Prof, Provost & Executive Asst to President *
 Elder, A T, MA Phd Tor, BA Assoc Prof.
 Godfrey, D R, BA Phd Dub Assoc Prof.
 Watson, W, BA B Col, MA Phd Tor. Assoc Prof
 Baldwin, R G, BA B Col, MA Phd Tor Assoc Prof
 Guy, E F, MA Dal., Phd Edm *Assoc Prof
 Mandel, E W, MA Sask, Phd Tor Assoc Prof

Adam, I, MA Lond., BA Asst. Prof.
 Bessau, F., MA Sask Asst. Prof.
 White, Alison G, EdB E Illinois, AM Ohio, Phd Iowa Asst Prof
 Sowton, I C, MA Tor Asst Prof
 Steene, B, FilKand Uppsala, MA Phd Wash *Asst Prof
 Logie, L. J., MA New Br & Camb, BEd Tor *Asst Prof.
 McMaster, R D, MA Tor Asst Prof.
 Rose, E J, AM Brooklyn Asst Prof
 Bisland, J W, MA Br Col, Phd Tor Asst Prof.

Chapin, D F, MA Tor Asst Prof.
 Forrest, J F, MA BLitt Glas., AM Phd Corn Asst Prof.
 Qureshi, A H, BS Phd Ill Asst Prof.
 Anderson, R F, BA Br Col, MA Wis Asst Prof.

King, B A, BA Col, Phd Leeds Asst Prof.
 Lane, Diane E., BA W Ont, MA Lond Asst Prof
 Orrell, J. O., BA Oxon, MA Tor Asst Prof
 Laun, E C, BA Hobart (N Y), MA Conn Lectr

Mathews, R. D. M., BA B Col, MA Ohio Lectr

Fine Arts

Glyde, H G (Art) Prof
 Eaton, R S, MusB McG. (Music) Prof.
 Crighton, A B, MusBac Tor. (Music) Assoc Prof.

Taylor, J. B (Art) Assoc. Prof
 Peacock, G. B, MA Carnegie Inst. of Technol, BEd (Drama) Assoc. Prof.

Smith, A A, MMus Tor Assoc Prof.
 Nelson, Esther (Drama) Extension Asst Prof
 Yates, E N. (Art) Asst Prof
 Rolston, T (Music) Asst. Prof
 Bueckert, F F, BEd Sask, AM Col (Drama) Asst Prof

Stangeland, R A, MusB Miami (Ohio), MusM Roch. (Music) Asst. Prof.
 Wohlfarth, H (Art) Asst. Prof
 Greene, G. K., BA BEd (Music) Extension Asst. Prof.

French and German, see Mod Langs.**Geography**

Wonders, W C., BA PhD <i>Tor</i> , MA <i>Syr</i>	Prof.
Laycock, A H., BA <i>Tor</i> , PhD <i>Minn</i>	Assoc Prof
Farrell, B H., BA N Z., MA <i>Wash</i>	Assoc Prof
Nelson, J G., BA <i>McM.</i> , MA <i>Col</i> , PhD <i>Johns H</i>	*Asst Prof
Smith, P. J., MA N Z	Asst Prof
Young, B. S., MA <i>Camb</i> & <i>Rhodes</i>	Asst Prof
Bergmann, J F., MA <i>Texas</i> , AB PhD <i>Calif</i>	Asst Prof
Longley, R W., BSc <i>Acad</i> , AM EdM <i>Hav</i> , MA <i>Tor</i>	Asst Prof

Geology

Folinsbee, R. E., MSc PhD <i>Minn</i> , BSc	Prof
Stelck, C. R., PhD <i>Stan</i> , MSc	Prof
Nelson, S J., MASc <i>Br Col</i> , PhD <i>McG</i>	Assoc. Prof.
Burwash, R. A. M., PhD <i>Minn</i> , BEd MSc	Assoc Prof
Charlesworth, H A K., MA <i>Camb</i> , PhD <i>Glas</i>	Assoc Prof
Baadsgaard, H M., BS <i>Minn</i> , PhD <i>E T H Zurich</i>	Assoc Prof
Lerbelmo, J F., BASc <i>Br Col</i> , PhD <i>Calif</i>	Asst Prof
Campbell, F. A., BSc <i>Manit</i> , MA <i>Qu.</i> , PhD <i>Prin</i>	Asst. Prof
Oliver, T A., MSc <i>Manit</i> , PhD <i>Calif</i>	*Asst Prof
Taylor, R. S., BA MS PhD <i>Minn</i>	Sp Lectr

History

Thomas, L G., PhD <i>Harv</i> , MA	Prof
Blackley, F D., MA PhD <i>Tor</i>	Prof
Heymann, F. G., PhD <i>Fran</i>	*Assoc Prof
Self, G. M., MA <i>McG</i> , PhD <i>Chic</i>	*Assoc Prof.
Eccles, W J., MA PhD <i>McG</i>	Assoc. Prof.
Farnham, W. D., BA <i>Cornell Coll. (Iowa)</i> , MA <i>Col</i> , PhD <i>Oregon</i>	Assoc Prof.
McNeal, R. H., BA <i>Yale</i> , MA PhD <i>Col</i>	Assoc Prof.
Brock, P., MA DPhil <i>Oxon</i> , PhD <i>Cracow</i> (on leave)	Asst Prof
Hertzmann, L., BA <i>Tor</i> , AM PhD <i>Harv</i>	Asst Prof
Murray, A. L., BA <i>McM</i> , MA <i>Lond</i> , PhD <i>Penn</i>	Asst Prof
Shields, R A., MA <i>Manit</i> , PhD <i>Penn</i> .	*Asst Prof
Jones, W J., BA PhD <i>Lond</i>	Asst. Prof
Wiedner, D L., AB <i>Colgate</i> , AM PhD <i>Harv</i> .	Asst Prof
Barton, H A., BA <i>Pomona</i> , MA <i>Prin</i> .	Asst. Prof
Brown, R C., BA <i>Roch</i> , MA PhD <i>Tor</i>	Asst Prof
Fraser, Barbara J. L., MA PhD <i>Tor</i>	Asst, Prof
Evans, B. L., PhD <i>Lond</i> , BA	Asst Prof

Household Economics

Empey, Elizabeth L., MNS <i>Corn</i> , PhD <i>Corn</i> & <i>Col</i> , BSc	Prof, Dir.
Duggan, Grace L., MSc <i>Chic</i> , BSc BEd	Assoc. Prof.
Campion, Margaret, BScinHec <i>Manit</i> , MEd <i>Col</i>	Asst Prof
Moseson, Helen, BSc MA <i>Mich</i>	Asst Prof.
Renner, Ruth O A., PhD <i>Corn</i> , MSc	Asst Prof
Zintel, Frances M., BSHEc	Asst Prof
Gowda, Melvina, BSc	Asst Prof
Lukancuk, Zenovia J., MS <i>Mich</i> , BSc	Lectr
Cairns, Grace E., BSc	
Mann, Lila G., BSHEc <i>Sask</i>	Instr ; Dietitian, Univ Cafeteria
Skrepneck, Natalie, BSc	Dietitian, Univ Residences Asst Dietitian

Industrial Laboratories, see p. 141**Law**

Bowker, W F., QC, LLM <i>Minn</i> , BA LLB	(Unisp) Prof
Steer, G H., QC, MA <i>Qu</i> , LLD <i>Qu</i> & <i>Alta</i>	Hon Prof
Ford, Hon. Mr. Justice F., DCL <i>Tor.</i> , Hon LLD <i>Laval</i> & <i>Alta</i>	Hon Prof
Cairns, L. Y., QC, BA LLD	Hon Prof.
Martland, Hon. Mr. Justice R., BCL <i>Oxon</i> , BA LLB	Hon Prof
Smith, A., QC, LLM JSD <i>Stan</i> , BA LLB	Prof.
Thompson, A R., LLB <i>Manit</i> , LLM <i>Tor</i>	Assoc Prof
Sherbannuk, D J., BA LLB	Assoc Prof
Angus, W H L., BA LLB <i>Tor</i> , LLM <i>Col</i>	Asst Prof
Guttman, E., LLM <i>Lond</i>	Sessl Instr
McDonald, D C., BCL <i>Oxon</i> , BA <i>Oxon</i> & <i>Alta</i>	†Sessl Lectr
Anderson, J L W., BA LLB <i>Sask</i>	†Sessl Instr
Hurlburt, W H., BA LLB	†Sessl Instr
Laycraft, J H., BA LLB	*Sessl Instr
Moir, A F., LLM <i>Harv</i> , BA LLB	†Sessl Instr.
Shortreed, J W K., BA <i>Tor</i> , LLB	†Sessl Instr.
Brumlik, J P., BA LLB	†Sessl Instr.
Field, H G., BA LLB	†Sessl Instr

Mathematics

Keeping, E. S., DIC, BSc <i>Lond</i>	Prof
Wyman, M., PhD <i>Cal Tech</i> , BSc, FRSCan	Prof
Moser, L., BSc <i>Manit</i> , MA <i>Tor.</i> , PhD N. Carolina, FRSCan	Prof.
Associate Professors	
Lorch, L., BA <i>Corn.</i> , MA PhD <i>Cinc</i>	
Peck, J E L., MSc S A., PhD <i>Yale</i>	(*)
Phibbs, E., MA <i>Camb</i>	
Crosby, D R., MA PhD <i>Prin</i> , DPhil <i>Oxon</i> , BSc	
Fosstvedt, T., MS <i>Chic</i> , BSc	

Gibb, A. A., MA *Tor.*, EdD *Stan.*, BSc
BED

Jacka, R. C., MS *Chic.*, BSc
Lowig, H. F. J., DrRerNat *Prague*, DSc *Tas*
McNamee, J. J., BE BSc *NUI*, PhD *Lond*
Narayana, T. V., MA *Madr. & Bom.*,
PhD *N Carolina*

Robinson, R. O. A., MA PhD *Camb*
Cree, G. C., MA *McG.*, PhD *Wash. (Mo.)*
Whitney, E. L., AM PhD *Harv.*, BSc
Bruce, W. J., MED *Chic.*, PhD *Wash.*, BED
Sharp, W. T., MA *Tor.*, AM *Prim*
Scheidegger, A. E., MSc *Zur.*, PhD *Tor.*
Wong, Y. K., SM PhD *Chi.*
Shmirat, M., MSc *Jerusalem*, PhD *Jerusalem*
& *Manc.*

Assistant Professors

Pounder, J. R., MA *Tor*
Israel, W., MSc *Cape T.*, PhD *Dub*
McGregor, J. R., PhD *Camb.*, BSc *MED*
Takeo, M., *Rugakushi Tohoku*, MS PhD *Oregon*
Holland, A. S. B., BSc *NZ*
Hyduk, Zenna M., MSc
Sinclair, R. G. G., PhD *MIT*, BSc
Julius, R. S., MSc *Br Col*

Lecturer

Patton, Adery, BSc *McG.*, MSc

Medicine, see below

Modern Languages

Greene, E. J. H., DUPais, MA (French) Prof
Faucher, M., LenDroit *Paris*, MA *Calif*
(French) Assoc Prof
Samuel, G., MA *Glas* (French) Assoc Prof
von Ruchthofen, E., DiPhil *Fran*
(Romance Lang.) Assoc Prof
Starchuk, O., DrJur&RerPol *Chernowitz*
(Russian) Assoc Prof
Reinhold, E., PhD *Mich.*, BSc *MA*
(German) Assoc Prof
Moore, C. H., BA *W Ont.*, DUParis
(French) Assoc Prof
Motut, R. G., BA *Laval*, BED *MA*
(French) Asst Prof.
Oyler, J. E., PhD *Northeastern*, MA *Asst. Prof.
Savotzky, J., PhD *Bud.*, DrPhilHabil *Frib*
(German) Asst Prof.
Arnold, A. H., L&L PhD *Frib*
(German) Asst Prof
Scott, Alison P., MA BLitt *Oxon.*, PhD *Qu*
(German) Asst Prof
Harms, A., BA *Sask.* (French) *Asst Prof
Slavutych, Y., AM PhD *Penn* Asst. Prof.
Colter, Carla K. A., BA *McG.*, DUParis
Asst Prof
Chanal, H. F., L&L *Lyons* (Russian) Asst Prof.
L'Abbé, Germaine, MA *Qu.*
(French) *Asst Prof
Ferraté, J., LenL *Barcelona* Asst Prof
Jensen, F., MA *Copenhagen* Asst Prof
Kocuba, O., L&L *Louvain & Paris* Asst. Prof

(*) Aubery, P., L&L *Toulouse*, MA *Duke*,
DUPais Asst Prof
Breugelmans, R., DPh&L *Ghent* *Asst Prof
Maixheimer, E., MA *Calif* Lectr

Nursing, see Medicine, below

Pharmacology, see Medicine, below

Pharmacy

(*) Huston, M. J., PhD *Wash.*, MSc Prof
Riedel, B. E., PhD *W Ont.*, MSc Prof
Anderson, A. J., MS *Wash.*, BSc Assoc Prof.
Palmer, K. H., MPharm *Noti.*, DUParis Asst Prof.
Morrison, J. C., BSc PhD *Glas.* Asst. Prof.

Philosophy and Sociology

Mardios, A. M., MA *Melb.*, MLitt *Camb*
(Philos.) Prof
Hirabayashi, G. K., MA PhD *Wash.*
(Sociol.) Assoc Prof
James, R. L., MA *Wayne*, PhD *Oregon*
(Sociol.) Assoc Prof
Penclum, T. M., MA *Edin.*, BPhil *Oxon*
(on leave) (Philos.) Assoc Prof
Tennessen, H., MA MSc *Oslo* Assoc Prof
Heinz, J. W., AB *St. Lawrence* (Philos.) Asst Prof.
French, C. L., AM PhD *Wash. (Mo.)* (Sociol.) Asst Prof.
Hostetler, J. A., BS *Goshen*, MA
PhD *Penn State* (Sociol.) Asst Prof.
Lambert, J. F., BA *Willamette*, MS *Oregon*,
PhD *Mich State* (Philos.) Asst. Prof.
Laskin, R., BA *C.G.N.Y.*, MA
PhD *Penn State* (Sociol.) Asst Prof.
MacCannell, E. H., MA BSc PhD *Wash State* *
(Sociol.) Asst Prof.
Radcliff, P. E., BA *Oberlin*, MA PhD *Wash.*
Asst Prof
Mills, D. L., BA *Idaho*, MA PhD *Stan*
(Sociol.) *Asst Prof
Abu-Laban, MA *Beirut*, PhD *Wash*
(Sociol.) Asst Prof.
Zentner, H., BA *Br Col.*, MA PhD *Stan*
(Sociol.) *Asst. Prof

Physical Education

Van Vliet, M. L., MS *Oregon*, EdD *Calif* Prof
Smith, W. D., BPHE *Tor.*, MA *Col.*,
EdD *Buffalo* Prof
Goodwin, L., BA *MED* *Prof
Eriksson, A. W. E., MSc *Wash.*, BSc
Assoc Prof
Austin, Patricia L., BPHE *Tor.*, AM *Col.*
Assoc Prof
McLachlin, H. J., BSc *McG.*, MS *Wash*
Assoc Prof.
Howell, M., MA EdD *Calif.* Assoc Prof
Anderson, Ruby O., BED Assoc Prof
Mendryk, S., BED (inPhysEd) Assoc Prof

Affleck, A F, BPHE <i>Tor</i> , BEd	Asst Prof	Mackenzie, W, BSc <i>Glas.</i> , BLitt <i>Oxon</i> ,	
Alexander, J F, BS MA <i>Notre Dame</i>	Asst Prof	MS <i>Conn</i>	Assoc Prof.
Cogswell, Margaret O, BA	*Asst Prof	Davy, G. R., BA <i>W Ont</i> , PhD <i>Fletcher</i>	
Carson, Audrey M, BEd	Asst Prof.		Assoc. Prof.
Fracas, G., BA <i>W Ont</i> , BEd	Asst Prof.	Bocourkiw, B R, MA <i>Mamit</i> , PhD <i>Chic</i>	
Smith, M F R, BEd	Asst Prof		Assoc Prof.
Macintosh, D. D, BEd(mPhysEd)	*Asst Prof	Boote, M J, BA <i>Wales</i> , PhD <i>McG</i>	Asspc. Prof.
Drake, C J, BPE <i>Br Col</i> , BEd	Asst Prof	Baird, R E., BA <i>Augustana</i> , MA	
Hendrickson, Mary F, BA BPE	*Asst Prof	PhD <i>Ill.</i>	Asst. Prof.
Frache, Mrs. Elvira J, BScenHEC BEd		Bauer, M F, BA <i>W Ont</i> , MA <i>Tor</i>	Asst Prof
	Asst Prof	Dawson, W F., BA <i>Tor</i> , MA <i>Qu.</i> ,	
Dewar, J, MA <i>Ohio</i> , BEd	*Asst Prof	DPhil <i>Oxon</i>	Asst Prof
Alexander, J F, BS MA <i>Notre Dame</i> ,		Powrie, T L., BSA MA <i>Sask.</i> , DPhil <i>Oxon</i>	
PhD <i>Mich</i>	Asst Prof		Asst. Prof.
Bratton, R. D., BA <i>San G. Wms</i> , MS <i>Calif</i>	Lectr	Winch, D. M, BSc PhD <i>Lond</i>	Asst. Prof.
Duquette, Shirley A, BScnEd <i>Cmc</i>	*Instr	Anton, F R, BSc <i>Lond</i> , MA <i>Calif</i>	*Asst Prof
Gillingwater, Doreen A	Instr	Moravcik, I., BA <i>Ohio</i> , PhD <i>Indiana</i>	Asst Prof
McCleary, Mary I P, BPE	*Instr	Williams, C G, BA <i>Wales</i> , MA <i>Manc</i>	
Power, Patricia, BPE <i>Br Col</i>	*Instr		Asst. Prof.

Physics

Grayson-Smith, H, MBE, MA PhD <i>Tor</i> ,	Prof
FRSCan	
Scott, D. B, BA <i>Tor</i> , PhD <i>McG</i>	Prof., Dir., Computing Centre
Newbound, K. B, MSc <i>Mamit</i> , PhD <i>M.I.T</i>	Prof
Bhatia, A. B, MSc DPhil <i>Allid</i> , PhD <i>Liv</i>	Prof.
Gauland, G D, MA <i>Tor</i> , PhD <i>St Louis</i>	Piot
Harold, J H., MA PhD <i>Tor</i>	Assoc Prof
Tramoi, L E. H, MA <i>Sask.</i> , PhD <i>Minn.</i>	Assoc Prof.
Schiff, H., MSc PhD <i>McG</i>	Assoc Prof.
Wilson, B. G., BSc <i>Belf.</i> , PhD <i>N.U.I.</i>	*Assoc. Prof
Woods, S B., MA <i>Sask</i> , PhD <i>Br Col</i>	Assoc Prof.
Challice, C E, BSc PhD <i>Lond</i> , FIP	*Assoc. Prof
Betta, D D, MSc <i>Dal</i> , PhD <i>McG</i>	Assoc Prof
Buckmaster, H. A, MA PhD <i>Br Col</i> ,	
BSc	*Assoc Prof
Terentiuk, F, MA PhD <i>Br. Col.</i> , BSc	*Assoc Prof.
Manchester, F D, MSc <i>N Z</i> , PhD <i>Br Col</i>	Assoc Prof
Neilson, G. C, MA PhD <i>Br Col</i>	Assoc Prof
Sample, J T., MA PhD <i>Br Col</i>	Assoc. Prof
Dawson, W. K, BSA <i>Laval</i> , MA PhD <i>Qu</i>	Assoc Prof
Cumming, G L., MA <i>Sask.</i> , PhD <i>Tor</i>	Asst. Prof.
Lipson, J., BA <i>Yale</i> , PhD <i>Calif.</i>	Asst Prof
Vozoff, K, BS <i>Mimi</i> , MS <i>Penn.</i> ,	
PhD <i>M I T</i>	Asst. Prof
Weichman, F. L., BS <i>Brooklyn</i> ,	
PhD <i>Northwestern</i>	*Asst Prof

Physiology, see Medicine, below

Political Economy

Hanson, E. J., BA <i>Qu.</i> , PhD <i>Clark</i> , MA	Prof.
Gainer, W D., MS <i>Iowa</i> , PhD <i>M I T</i> ,	
BSc	Assoc Prof
Goundrey, G K., BA <i>Br Col</i> , MA <i>Tor</i>	Assoc. Prof

Psychology

Royce, J R., AB <i>Denson</i> , PhD <i>Chic</i>	Prof
Smith, D E, MA <i>Qu.</i> , PhD <i>Harv.</i>	Prof
Hough, Rev A J B, MA <i>W Ont</i> ,	
LTh <i>St John's (Manit)</i>	Assoc Prof
Howarth, E, MSc <i>Manc</i> , PhD <i>Melb</i>	Assoc Prof
Miles, R C, MS <i>Idaho</i> , PhD <i>Ohio</i>	Assoc Prof
Rempel, P P, BA BEd <i>Sask</i> , PhD <i>Minn</i>	Assoc Prof
Schonfield, A, MA <i>Camib</i>	*Assoc. Prof
Spearman, D, MA PhD <i>McG</i>	Assoc. Prof.
Wilson, Lolita N, MA <i>Br Col</i>	Assoc Prof.
Uhl, C N, BA <i>Stan</i> , PhD <i>Oregon</i>	Asst Prof.

Russian, see Mod Langs

Zoology

Ross, D M, MA <i>Dal.</i> , PhD <i>Camib</i>	Prof
Moore, J E, MA <i>Sask</i> , PhD <i>Tor</i>	Prof.
Harland-Rowe, C. B R, BSc PhD <i>Lond</i>	*Assoc. Prof.
Nursall, J R, MA <i>Sask</i> , PhD <i>Wis</i>	Assoc. Prof
Mackie, G O, MA DPhil <i>Oxon</i>	Asst. Prof.
Hickman, C P, AB <i>DePaulo</i> , MS <i>New Hampshire</i> , PhD <i>Br Col.</i>	Asst Prof
Holmes, J C., BA <i>Minn</i> , MA PhD <i>Rice</i>	Asst Prof
Lewin, V, BA PhD <i>Calif</i>	Asst Prof
Fuller, W A L, MA <i>Sask</i> , PhD <i>Wis.</i>	Asst Prof
Altmann, S. A., MA <i>Calif.</i> , PhD <i>Harv</i>	Asst Prof.
Anderson, P K, AB <i>Conn</i> , MS <i>Tulane</i> ,	
PhD <i>Calif</i>	*Asst Prof.

AGRICULTURE**Agricultural Engineering**

MacHardy, F. V, BE <i>Sask</i> ,	Prof.
MS <i>Northwestern</i>	
Stephanson, B T., BE <i>Sask.</i>	Assoc. Prof.

Animal Science

- McElroy, L. W., PhD *Calif.*, MSc Prof
 Clandinin, D. R., MSA *Br Col*, PhD *Wis*
 (Poultry) Prof
 Robblee, A. R., PhD *Wis*, MSc (Poultry) Prof.
 Bowland, J. P., BSA *Mam't*, MS *Wash*,
 PhD *Wis* Assoc Prof
 Berg, R. T., MS PhD *Minn*, BSc Assoc Prof
 Mendel, V. E., MSc *Idaho*, PhD *Calif*
 Asplund, J. M., PhD *Wis*, MSc Asst Prof
 O'Donoghue, J. G., DVM *Tor* Asst Prof
 (Vet Sci) †Lectr

Dairy Science

- Clegg, L. F. L., BSA *Tor*, PhD DSc *Lond* Prof.
 Wood, F. W., MSc Assoc Prof
 de Man, J. M., ChemEng *Amhem*,
 PhD Asst Prof

Entomology

- Hocking, B., BSc PhD *Lond*, MSc Prof
 Ball, G. E., MS *Alabama*, AB PhD *Corn*
 Assoc Prof
 Evans, W. G., MS PhD *Corn* Assoc Prof

Plant Science

- Corns, W. G., PhD *Tor*, MSc Prof
 Henry, A. W., MSA *Sask*, PhD *Minn.* Prof
 Johnson, L. P. V., PhD *Wash*, MSc Prof
 Weyer, J., MSc PhD *Gron* Prof
 Andrew, W. T., MS *Utah State*,
 PhD *Mich State*, BSc Assoc Prof
 Knowles, R. H., BSA *Tor*, MSc Assoc Prof
 Smith, W. E., PhD *Nebraska*, MSc Assoc Prof
 Zalik, S., MSc *Mam't*, PhD *Purdue* Assoc Prof
 Skoropad, W. P., PhD *Wis*, MSc Assoc Prof
 † Res Fellow

Soil Science

- Bentley, C. F., PhD *Minn*, MSc Prof.
 Toogood, J. A., PhD *Minn*, BSc Prof.
 Robertson, J. A., MSc *Mam't* Asst Prof
 Pawluk, S., PhD *Minn.*, MSc Asst. Prof
 Webster, G. R., MSc *Br Col.*, PhD *Oregon*
 Asst Prof
 Moore, A. W., BAgSc *Adel*, MS
 PhD *Nebraska* Asst Prof

DENTISTRY**Dental Science**

- McMurchy, K. A., BA *Sask*, DDS Prof
 MacGregor, D. G., DDS Assoc Prof

Dental Surgery

- MacLean, H. R., DDS, FACD (Oper D.) Prof
 Van Alstine, R. S., MS *Mich*, DDS Assoc Prof
 Geldart, S. G., DDS Assoc Prof

Pædiatric Dentistry

- Castaldi, C. R., DDS *Tor*, MSD *North-*
western Prof

Preventive and Public Health Dentistry

- McPhail, C. W. B., MSD *Northwestern*,
 BSc DDS Assoc Prof

Prosthetic Dentistry

- Fraser, S. D., DDS Prof

Restorative Dentistry

- Gibb, G. H., BSc DDS Assoc Prof
 MacRae, P. D., DDS Asst Prof.

School of Dental Auxiliaries

- Berry, Margaret H., BSc *Mt All & Col*
 Asst Prof, Dir
 2 Assoc Profs †, 4 Asst Profs †, 17 Lectis. †

ENGINEERING

(See also Industrial Labs. and Res Council of
 Alberta, p 141)

Chemical Engineering

- Govier, G. W., BASc *Br Col*, ScD *Mich*,
 MSc Prof
 Robinson, D. B., MASc *Br Col*, PhD *Mich* Prof
 Dranchuk, P. M., BSc Assoc Prof
 Dalla Lana, I. G., BASc *Br. Col.*,
 PhD *Minn.*, MSc Assoc Prof
 Flock, D. L., MS *Oklahoma*,
 PhD *Texas Agric* Assoc. Prof
 Rutter, R. A., BE MSc *Sask* Assoc Prof.
 Quon, D., ScD *M.I.T.*, MSc Assoc Prof
 Hart, R. T., MS *Stan* Assoc Prof
 Lallecht, L. U., BChE *Delaware*,
 MSE *Prin* Asst Prof
 Nader, W., MSc *Texas*, DipIng
 DPh *Vignna* Asst Prof

Civil Engineering

- Sinclair, S. R., MSc Prof
 Blench, T., BSc *Glas*, DSc, MICE
 (Irrigation E) Prof
 Gads, L. E., BSc
 Prof, Assoc Dean, Fac of Engin
 Ford, G., PhD *Stan.*, MSc Prof.
 Associate Professors
 Bigg, W. L., BSc (Drawing)
 Preston, W. W., BSc *Qu.*
 (Drawing & Descriptive Geom.)

- Bouthilher, P. H., SM *Harv.*, BSc
 Fowler, E. L., MSc
 McArthur, H. R., BASc *Br Col.*, MA *Wash.* (*)
 Peterson, A. W., MSc
 Longworth, J., MSc *Ill*, BSc (Appl Mech.)
 Duby, J., MA DPhil *Oxon.*, BSc
 Kennedy, J. S., MSc
 Verschuren, J. P., Ir *T H Delft*
 Stilwell, W. H., BA *Drake*, MA *Tor* (*)
 Murray, D. W., MSc *Lond*, BSc
 Panar, D., MSc *Mich*
 Sadler, G. W., BSc *Sask*, MSc *Ill*

Assistant Professors

- Ansley, R. W., BA BSc *Qu*, MSc
 Bakker, J. J., BSc *Glas*, DIC, MSCE *Purdue*
 Anderson, K. O., BSc
 Sammonds, S. H., MSc
 Adams, P. F., DipEng *Del*, BEng *N S T C*
 Doige, A. G., BE MSc *Sask* (*)
 Eshel, A., BSc *Israel*, MME *Rensselaer*
 Johnson, E. W., BSc *Lond*
 Rodkiewicz, C. M., DipIng *Polish Univ in East*
 Hebbert, R. H. B., BA BSc *Br Col*, MSc *Qu* (*)
 Glockner, P., BSc *McG*, MSc *M.I.T.* (*)
 Baron, M. J., MSc *Ill*, BSc
 Brooker, E. W., MSc
 MacGregor, J. G., MSc *Ill*, BSc
 Warwaruk, J., PhD *Ill*, BSc

†Special Lecturer

McManus, R. N., PhD *Ill*, MSc

Electrical Engineering

- Harle, J. A., MSc *DuH.*, MIEE Prof
 Porteous, J. W., MSc Prof
 Phillips, R. E., BSc Assoc. Prof.
 King, R. W., BSc Asst. Prof.
 Clarke, K. G., BSc *Qu*, Asst. Prof.
 Haddow, J. B., BSc *St And*, Asst. Prof.
 Fokkinga, Y. J., B Sc *T H Delft*, Asst. Prof.
 Kelly, D. H., MSc Asst. Prof.

Mining and Metallurgy

- Lalge, E. O., MSc Prof
 Patching, T., BSc Prof.
 Parr, J. G., BSc *Leeds*, PhD *Liv.* Prof.
 Leja, J., BSc *Lond*, DipIng *Chacon*, PhD *Cambr.* Assoc. Prof.
 Youdelis, W. V., MSc PhD *McG*, BSc Asst. Prof.

MEDICINE

Anaesthesia

- Haley, F. C., MSc MD Asst. Prof.
 1 Prof †, 8 Sessl Instrs.†

Anatomy

- Rawlinson, H. E., MSc PhD *McG*, MD Prof
 Thompson, J. S., MA *Sask*, MD *To* Prof
 Salt, W. R., MSc Prof
 Fish, M. T., BSc MD Assoc. Prof.
 Enkson, L. B., BA *Roth*, MA *Oxon*, PhD *Ill*, Asst. Prof.
 1 Prof †, 2 Asst. Profs.†, 1 Sessl Instr.†

Bacteriology

- Stuart, R. D., DPH *Aberd.*, ChB MD DSc, FREPSGlas Prof.
 Myers, G. E., PhD *McG*, MSc Prof.
 Penikett, E. J. K., MB BS PhD *Lond* Assoc. Prof.
 Carruthers, J. W., PhD *Harv.*, MSc
 Toshach, Sheila R., MA *Tor.*, BSc Assoc. Prof.
 Asst. Prof.

- Williams, Mrs. Mary E., MB ChB *Liv.* Asst. Prof.
 Bursewicz, Miss Anne M., MB ChB *Edin*, Asst. Prof.
 DPIT *Tor* Asst. Prof.
 Campbell, J. N., BA *W Ont*, MSc *Br Col.*, PhD *Chic* Asst. Prof.
 Payne, I. J., MA *Br Col*, PhD *Penn.* Asst. Prof.

Medicine and Clinical Medicine

- Wilson, D. R., BA *Oxon*, MD CM *McG.*, FRCPEan, FACP Prof
 Fraser, R. S., MD MSc, FRCPCan Assoc. Prof.
 Gilbert, J. A. L., MD ChB *Edin*, FRCPCan, FRCPEd Assoc. Prof.
 Monckton, G., BS MD *Lond.*, FRCPCan Assoc. Prof.
 Dyrenfurth, Miss Inge, MSc *Bel*, PhD *Heidel* (Expe. M.) Assoc. Prof.
 Little, A. S., MD *Manit*, FRCPCan Asst. Prof.
 McLeod, L. E., MSc *McG*, BSc MD, FRCPCan Asst. Prof.
 Rentiers, P. L., MSc *Mum*, BA MD (Dermatol.) †Asst. Clin. Prof.
 4 Clin Profs †, 1 Assoc. Prof †, 4 Asst. Clin Profs †, 11 Lectrs.†, 17 Instrs.†

Nursing

- McClure, Ruth E., MPH *Pitt*, BSc Assoc. Prof.
 Campbell, Margaret M., BA BSc *Br. Col.*, MPH *Mich* Asst. Prof.
 Madden, Margaret M., BA *Sask* (Obstet.) Lectr.

Obstetrics and Gynaecology

- Vant, J. R., BA *Sask*, MD *Manit*, FRCOG, FACS, FRCSCan Prof
 Nelson, T. R., MB ChB *Edin*, FRCSCan Assoc. Prof.
 Ferguson, W. F., BSc MD Asst. Prof.
 1 Hon. Clin. Prof. †, 2 Clin. Profs.†, 3 Asst. Clin. Profs.†, 5 Lectrs.†, 10 Sessl Instrs.†, 1 Clin. Tutor†

Ophthalmology and Otolaryngology, see Surg and Clin. Surg

Paediatrics

- Martin, J. K., MB BS *Lond*, MRCP Prof
 Taylor, W. C., MB ChB *Aberd.*, FRCPCan Assoc. Prof.
 Stewart, A. G., MA *Qu*, PhD *W Ont* Assoc. Prof.
 1 Clin. Prof. †, 1 Assoc. Clin. Prof. †, 4 Asst. Clin. Profs.†, 2 Lectrs.†, 6 Instrs.†

Pathology

- MacGregor, J. W., BA MD, FRCPCan Prof, Provincial Pathologist
 Bain, G. O., BSc MD Assoc. Prof.
 Shnitka, T. K., MSc MD Asst. Prof.

Swallow, R J, BA *Sask*, MD Asst Prof
1 Assoc Prof †, 6 Asst Profs †, 2 Sessl
Lectrs †, 9 Instrs †, 2 Sessl Demrs †

Pharmacology

Daniel, E E, MA *Johns H*, PhD *Utah* Prof
Nash, C W, BSc *Manit*, MSc PhD *Minn* Prof
Gillis, C N, BSc PhD *Glas* Asst Prof
1 Asst Prof †, 2 Instrs †, 2 Demrs †,
1 Teaching Asst †

Pharmacy, see above

Physiology

Pearce, J W, MD CM *Qu*, DPhil *Oxon* Prof
Heath, C, PhD *Minn*, MSc Assoc Prof
Cottle, W H, MA *Br Col*, PhD *Wash*

Hohn, E O, MB MS PhD *Lond* Assoc Prof
Chapman, K M, MS *Minn* Asst Prof
1 Asst Prof †, 2 Lectrs †, 1 Instr †, 3 Sessl.
Demrs †, 1 Teaching Fellow †

Physiotherapy

Fowler, J R, MD (Phys Med) Prof
Rendell, Nancy Asst Prof
Gordon, Moyna J Asst Prof
Faulds, A G, Asst Prof
Allbon, L C (Occupnl Therapy) Lectr

Preventive Medicine

Greenhill, Hon S G, MD DPH *Tor* Prof
Furman, Mrs Gertrude, BA *United*,
MSW *Br Col* Lectr
3 Lectrs †, 1 Hon Instr †

Psychiatry

Yonge, K A, MD CM *McG*, DPM *Lond* Prof
Forster, W, MB BS *Durh*, DPM *Lond*

Chenard, Imelda, MSc *Laval* Assoc Prof
McTaggart, A N, BA *Br Col*, MD Asst Prof
CM *McG* Lectr
1 Hon Clin Prof †, 1 Clin Prof †, 1 Hon
Assoc Clin Prof †, 3 Asst. Clin Profs †,
10 Instrs †

Surgery and Clinical Surgery

Macbeth, R A L, MSc *McG*, BA MD,
FRCSCan, FACS Prof
MacKenzie, W C, BSc MD CM *Dal*,
MS *Minn*, FACS, FRCSCan Prof
Harrison, R C, MS *Tor*, MD, FRCSCan,
FACS Prof, Dir of Exptl Surg

Rostrup, O, MD, FACS, FRCSCan,
FAAOS (Orthopaedics) Clin Prof
Couves, C M, BA *Sask*, MD *Manit*,
FRCSCan, FRCSed, FACS Assoc Prof
Kowalewski, K P, MD PhD *Brussels*,
MPH *Warsaw* (Exper S) Assoc Prof
Boyd, T A S, MB ChB *Glas*, FRCS
Assoc Prof
Lacey, W H, BSc MD, FRCSCan Asst Prof
1 Hon Clin Prof †, 9 Clin Profs †, 1 Assoc
Clin Prof †, 7 Asst Clin Profs †, 17
Lectrs †, 34 Instrs †, 1 Clin Tutor,
1 Teaching Fellow

Veterinarian

Secord, D C, MVSc *Tor* Asst Prof, Dir

INDUSTRIAL LABORATORIES

Noble, C E, BA BSc Provincial Analyst, Dir.

PROVINCIAL LABORATORY OF

PUBLIC HEALTH

Stuart, R D, ChB MD DSc DPH *Aberd*,
FRFPGlas Prof, Provincial Bacteriologist
Shute, D, MD ChB *Mane* *Dir
Crichton, Erika P., MB ChB *Glas*.
Williams, Mrs Mary E, MB ChB *Lsw*
Toshach, Sheila, MA *Tor*, BSc
Shnuka, T K, MSc MD

RESEARCH COUNCIL OF ALBERTA

Grace, N H, MBE, MA *Sask*, PhD *McG*,
FRSCan, FCIC Dir of Res
Lang, W A, MSc Sec, Asst Dir of Res.
Wark, Kathleen, BCom Accountant
Stover, Vera, MSc Librarian

DEPARTMENT OF EXTENSION

Campbell, D D., BCom BA *Br Col* Dir Dept
Potter, G T, BA *Oxon* Assoc Dir
Cormack, E W, OBE, BSc Asst Prof
Des Champs, A, BSA *Manit* Agric Sec
Dodds, Mary I, MS *Col*, BCom Librarian
Greene, G. K., BA BEd Asst Prof
Eytford, G A, BA *Manit* Asst Prof
Ritchie, C F, AB *Calif*, MS *Indiana* Asst Prof

BANFF SCHOOL OF FINE ARTS

Cameron, Senator D, MSc * Dir
Madsen, J C K, BCom Asst Dir
Becker, D F, BA BSc Asst Dir

ADMINISTRATIVE AND OTHER STAFF

GENERAL Assoc Dean of Educn, Calgary
A L Doucette, BScinCE *Dal*, EdD *Stan*, MA
Dir. of Summer Session & Evening Credit Pro-
gramme J W Gilles, EdD *Stan*, MA MEd

Asst Dir of Summer Session, Calgary T G
Finn, EdD AM *Stan*, RA Provost, Calgary
A A Gibb, MA *Tor*, EdD *Stan*, BSc BEd
Counsellor, Student Counselling Service A R

Vander Well, BA *Central Coll*, MA *Iowa State* Counsellor, Student Counselling Service, Lect D C. Fair, BEd MA Advisor to Women Students, Calgary, Ethel King, MA *Iowa*, BEd Advisor to Men Students R C W Hooper Personnel Officer M S Cooke, BSA *Sask* Dean of Women Mrs J Grant Sparling, BA DipSW *Tor*, Supt of Univ Hospital B. Snell Planning Officer H. R Hawes, BSc Sec of Admissions Cttee W A D Burns, BA Admin Officer, Calgary E F Guy, MA *Dal*, PhD Edun Adgaminstrator, Professl Exams G Samuel, MA *Glas* Administrator, Student Awards R B Wishart, BCom *Tor* Asst Registrar L. P Morgan, BA. Accountant M A. Roussell, BCom *McG*. Purchasing Agent E F Hunter, BCom Warden of Pembina Hall
Warden of Assiniboia Hall T B Greenfield, BA MEd Warden of Athabasca Hall. J C Morrison, BSc PhD Alumni Sec A G Markle, BJ *Car*, BA Manager, Univ Press Mrs Bella Donnan Officer-in-Charge, Univ Office, Natnl. Employment Service: Theresa

Kehoe, BA Radio Producer, CKUA G Vaughan Supt of Bldgs B W Brooker, BSc Supt of Grounds R H Knowles, BSA *Tor*, MA MSc Univ Medical Officer Hon S G Greenhill, MD DPH *Tor*

LIBRARY Reference Librarian. Dorothy I Hamilton, BScinLS *Wash*, MA *Mich*, BA Circulation Librarian Norma E Freffield, BLS *Tor*, BA Order Librarian Lilian E M Leveredge, BLS *Tor*, BA Chief Cataloguer D Baid, BA *Br.Col*, MS *Col* Medical Librarian Margaret I Sutherland, BLS *Tor*, BA Educn Librarian (Edmonton) Moira L English, BA *Br Col*, MLS *Wash* Librarian (Calgary) Dorothy E Ryder, BA *Br Col*, BLS *McG* Chief Processing Librarian (Calgary) Mary E Speith, BA *Qu*, BLS *McG*. Appl Sci Librarian Mrs Ivana Raletuch, Lic *Belgrade*, BLS *Tor* Law Librarian D Noden, MA *Camd*, BLS *McG* Librarian (Boeal Inst). Lois J Carrier, BA *Sask*, BLS *Tor*

AFFILIATED INSTITUTIONS

Jr colls maintain a staff and offer a curriculum approved by Univ of Alberta. The same requirements for admission obtain and regular univ. exams. of first yr are written Jr colls. are not affiliated with Univ of Alberta financially

CAMROSE LUTHERAN JUNIOR COLLEGE, Box 1540, Camrose (tel. Camrose 2444) *Affiliated to univ in 1959 Provides courses in 1st yr. arts & sci subjs* Pres—Rev. C. E. Lund Dean—K G Morgenroth, MA MEd PhD

LETHBRIDGE JUNIOR COLLEGE, 5th Ave and 10th St S, Lethbridge (tel. : FA7-4731) Affiliated in 1957 Provides courses in 1st yr. arts & sci and some agric subjs Dean—W. J. Cousins, MA.

MOUNT ROYAL COLLEGE, 7th Ave. and 11th St S W, Calgary (tel. : Calgary AM6-4611) Affiliated in 1931. Provides courses in 1st yr. arts & sci subjs Principal—Rev J. W Garden, BA DD.

PROVINCIAL INSTITUTE OF TECHNOLOGY AND ART, 13th Ave and 10th St S W, Calgary (tel. : Calgary AV9-7697) Affiliated in 1926 Inst. operates directly under prov dept of educn. and no univ courses are provided. Principal—E W Wood

St. JOSEPH'S CATHOLIC COLLEGE, Univ. of Alberta, Edmonton, Alberta (tel GE31569)

Affiliated in 1926 as an arts college providing courses in hist and philos Situated on univ campus Rector—B. Prudent

St STEPHEN'S COLLEGE, Univ of Alberta, Edmonton, Alberta (tel GE31153) (Theol coll of United Church of Canada) Affiliated in 1910 Provides courses in Hebrew and bibl lit Situated on univ campus Principal—E J Thompson, MA BD PhD.

RESEARCH COUNCIL OF ALBERTA, 87th Ave and 114th St, Edmonton, Alberta, is an independent orgn, although pres of univ is a member of the council. Essential function of res. council is to conduct res directed to utilization of resources of prov of Alberta. The bldg. is adjacent to the Edmonton campus and there is collab with the univ in a number of fields

UNIVERSITY HOSPITAL, Edmonton, Alberta Affiliated in 1922. Teaching hosp of 1200 beds Pres. and dean of the fac of med are statutory members of the administering bd Supt—B. Snell, DPH, MRCPd

WESTERN BOARD OF MUSIC, Dept of Fine Arts, Univ of Alberta, Edmonton, Alberta Founded 1935 to conduct theoret and practical exams of a high standard in music. Orgn. is governed by univ. cttee on music

GENERAL INFORMATION

EDMONTON AND CALGARY

(see also below)

The univ. was created at Edmonton in 1906 by an act of the first session of the first legislature of

the province The provincial legislature has establd. a close relationship between the univ. and

the professions by giving the general fac council jurisdiction over the educnl standards of agrolgists, architects, chartered accountants, dental auxiliaries, dentists, dietitians, engineers, geologists, geophysicists, land surveyors, lawyers, pharmacists, physical and occupational therapists, physicians and surgeons, registered nurses and veterinary surgeons

In 1944 the univ. assumed responsibility for all teacher trg. in the province and in 1945 took over the provincial normal schs. and their staffs. The Calgary normal sch., which was housed until 1959-60 in the bldg of the provincial inst of technol and art, became the Calgary branch of the univ., now the 'Univ of Alberta, Calgary'

The senate supervised all phases of the instn.'s activities until 1910, when a bd of governors was constituted and given charge of the univ.'s business affairs. This form of govt remained substantially unaltered until 1942, when a new act reduced the size of senate and transferred most of its academic functions to the general fac council

CONSTITUTION. The chancellor is elected for 6 yrs by convocation, which consists of survivors of original groups of grads of other univs who registered as members of convocation under the univ act of 1906, and all subsequent grads. of the univ. he is a member of the bd. of governors and of senate, as is the pres. The bd of governors consists of 6 *ex-officio* members and 7 apptd. by the lt-governor in council. The senate consists of 25 members, and acts as a deliberative, enquiring and recommending body. There is considerable emphasis on its function as a bridge between the univ and the life and activities of the province, and 9 of its members represent agric., business, labour, industry, public educn and organizations devoted to social and cultural welfare.

INCOME (1960-61). On current account, about \$13,042,000 (sources of revenue prov of Alberta, 46 per cent, govt. of Canada, 14.4 per cent, tuition fees, 14.7 per cent, departmental and other sources, 24.9 per cent). This total includes

revenue of both the Edmonton and Calgary campuses. Calgary expended \$917,000 of the current revenue. Income on capital account, \$8,691,000 for Edmonton and \$4,410,000 for Calgary.

FACULTIES AND DEANS See p. 133

SCHOOLS AND DIRECTORS. See p. 133.

ADMISSION See Appendix III

FEES Annual tuition fees BA, \$250, BMus, \$250, BSc, \$290; art dipl, \$250, BCom, \$290, DDS, \$425; BEd, \$250, BSc (engin), \$340, LLB, \$340, MD, \$425 (1st yr), \$525 (subsequent yrs), BPE, \$250, dipl. in phys therapy and occupnl therapy, \$250, DSc or DLitt, \$250, most other grad degrees, \$250 per session (complete details of grad. fees in calendar of fac. of grad studies)

ACADEMIC YEAR In most courses mid-Sept to end April. 2 terms of about 15 wks each with a Christmas vac., in med and dent, 2 terms of about 15 and 17 wks. Summer session. see below

SUMMER SESSION 6 wks in July and Aug (mainly for students in arts & sci and educn.) All courses may be credited towards degrees

BANFF SCHOOL OF FINE ARTS is at Banff Natnl Park in the Rocky Mountains. Session held during July and Aug, and courses offered in fine and appl arts, langs, writing and journalism. Majority not given for univ credit. Dir.—Senator D. Cameron, MSc

BANFF SCHOOL OF ADVANCED MANAGEMENT, underjt sponsorship of Alberta, British Columbia, Manitoba and Saskatchewan, is meeting industry's demand for exec. trg through its advanced management courses.

ALUMNI ASSOCIATION All grads are members of alumni assoc. directed by council of 35 members. Alumni sec-treasurer, employed by univ., has his office in students' union bldg., he is also editor of the *New Trail* (see 'Publications', below).

EDMONTON

(see also above)

The campus borders the wooded southern bank of the N Saskatchewan River in the capital city of the province of Alberta. The property of the univ in Edmonton includes the campus of 154 acres, and an exper and teaching farm nearby of 724 acres. In addition, the prov. govt. has leased to the univ a 5500-acre ranch at Kinsella, Alberta, for teaching and res. In 1960 Col. H. A. Dyde donated an 80-acre tract of woodland a short distance from Edmonton for a bot. garden and field lab

LIBRARY Rutherford libr. 218,000 vols., 213 periodicals, educn. libr. 20,000 vols.

LABORATORIES for all sci. courses, extensive greenhouses and growth chambers, extensive

clin and demonstration facilities for the med scis

RESEARCH LABORATORIES for study of exper. surg. and med., cancer, human genetics, animal nutr., soil sci, field crops and hort., hydraulics, petroleum products, soil mbch, strength of materials, structural engin, bot, chem, geol and geophys, phys, theorit maths, zool. Bot. Garden and field lab (Dir.—J. H. Whyte, MSc PhD)

TEACHING HOSPITALS University—see 'Affiliated Instns', above. Royal Alexandra (747 beds), Misericordius (425 beds), Edmonton General (530 beds), Charles Camilleri, Oliver Mental H., Aberhart Memorial Sanatorium, various clinics in city

INSTITUTES Boreal inst in arctic res., inst of theoret phys, summer inst of linguistics, surg-med res inst

FIRST DEGREES (of Univ of Alberta) 3 yrs (from sr matric)—BA, BSc (arts), BSc (household econ), BSc (pharm), BSc (MLS) [med lab sci], BPE, BMus 4 yrs (from sr matric)—BCom, BSc (agric), BSc (engin), BED 5 yrs (from sr matric)—DDSc (incl 1 yr pre-dent), BSc (nursing) (incl 3 yrs hosp trg) 'Combined' courses, 5 yrs (from sr matric)—BA & LLB, 6 yrs (from sr matric)—BA & BSc (engin), 6 yrs. (from sr matric)—MD (4 yrs after 2 yrs arts & sci)

Hons degrees are awarded only in arts, sci and pharm subjects are biochem, bot., chem, classics, Latin-French, Latin-English, Engl, entomol, genetics, geography, geol, hist, maths, appl. maths, mod langs, philos, psychol, phys., phys-geol, physiol, econ, pol sci, zool About four-fifths of the individual's courses in an honours curriculum are in the subj of specialization or related fields; with certain limitations, the remainder may be selected by the student.

Eug Credit Programme 24 arts and 5 educn courses are offered at Edmonton, Calgary and other centres No degree can be completed in this way.

HIGHER DEGREES (of Univ of Alberta). 3 yrs after BA or its equivalent—LLB 4 yrs after BA or BSc—MD A bachelor with hons standing may usually obtain MA or MSc in 1 yr of advanced study (2 yrs for bachelors with general degrees), 1 yr's residence is required Phd—2 yrs for masters, 3 yrs. for bachelors, 2 yrs' residence required EdD—prerequisites are several yrs of successful teaching, reading knowledge of French, MEd degree The DSc or DLitt may be conferred on persons considered by the gen. fac council to have distinguished themselves by special res or learning in the respective domains of sci and of the humanities or soc scis provided that the original work of merit was carried out by the candidate, either individually or in close assocn. with others, and that the majority of the work was carried out at the Univ of Alberta Period of study for BD varies according to programme selected but is in no case less than a combined total of 4 yrs in arts and theol (The LLB is awarded only as an honorary degree)

Grad. courses are offered in anat, animal sci, bacteriol, biochem, bot, chem & petrol. engin, chem, civil engn, classics, dairy sci, educnl admin, educnl psychol, elect engin, elem educn, Engl, entomol, geog, geol, hist, maths, mod langs., pharm, philos., psychol, phys., physiol, plant sci, econ, pol sci, sec educn, soil sci., med & clin med, mech engin, mining & metall, paed, surg. & clin. surg The Phd may be awarded in animal sci, biochem, chem, civil engn, chem & petrol engn, dairy sci, educnl admin, educnl. psychol, entomol, hist, geol, pharm, phys., physiol., pharmacol, maths.,

metall & met engin, plant sci, sec educn, soil sci

The univ does not award EXTERNAL DEGREES, although credit may in certain circumstances be given for exams passed through extra-mural study

DIPLOMAS (of Univ of Alberta) 1 yr—pub health nursing, nursing teaching & supervision (both for grad nurses) 2 yrs—inter art dipl 3 yrs—gen nursing dipl (for registered nurses), phys and occupat therapy dipl 4 yrs—art

CERTIFICATES Awarded by Univ of Alberta 5 mos—advanced practical obstet Awarded by prov govt 1 yr—'normal' course for jr elem cert in educn 2 yrs—standard elem and standard sec cert

COURSE NOT LEADING TO A QUALIFICATION Dairying (short course)

RESEARCH See also 'Research Laboratories', above Active res is being carried on in all depts of the univ A recent heavy bldg programme has been conducive to increased res in the sci depts, med, engin, and phys educn The teaching hospo are used extensively for res. projects Extensive res is conducted by the fac of educn Depts of the prov govt assist in res, as does the Res. Council of Alberta (see 'Affiliated Instns', above). Publi res papers are listed in the annual *Report of the Governors*

ADULT EDUCATION work is conducted mainly by dept of extn, although some is done by dept. of agric The work includes lectures, radio discussion groups, debating material, gen information service, agric bulletins, short courses in various subjs, film and slide services, open-shelf and travelling libraries, community life conferences

'OPEN' AWARDS. No undergrad. 'open' awards. Postgrad. awards. Univ. of Alberta grad fellowship, \$3600 over 12 mos for Phd or EdD programme. Prov. of Alberta grad fellowships, 3 of \$3600 each over 12 mos for Phd or EdD programme. Prov. of Alberta grad scholrs, 10 of \$2200-\$2600 each over 12 mos Francis F Reeve Foundation grad bursaries, 3 of \$2400 each over 12 mos, financial need, preference to Canadian grads. Shell Oil fellowship, \$1800 p.a., open to sci or engin grads. of Canadian univs. (or of recognized univs., if they have had 1 postgrad yr in Canada) who intend to follow a career in Canada, fields: chem, engin., chem, geol., geophys., mech. engin., petroleum engin, phys CIL fellowship, \$2000 p.a., open to Canadian citizens (or univ. grads. who intend to follow a career in Canada) for doctoral work in chem engin or chem Commoco fellowship, \$1000 p.a. for grads. in agric., engin or sci of a recognized univ., preferably Canadian citizen or British subject resident in Canada, field preferably related to chem. industry, metall. or mining. Pan American Petroleum Corp fellowship, \$1200 plus fees p.a. for grads with BSc from

any recognized univ for grad study in petroleum engin Pan American Petroleum Corp fellowship, \$1200 plus fees p a for Canadian grads for grad. study in geol For all above, apply by March 1 on form which may be obtained from administrator of student awards The fac. of educn has certain fellowships available Apply direct to fac Teaching assistantships and fellowships are available in certain depts, value up to \$2700 Apply direct to dept concerned

APPOINTMENTS A sub-office of the Edmonton branch of the natl employment service is located on the campus and serves both grads and undergrads

STUDENT RESIDENCES Pembina Hall, 152 women, Pembina House, 18 women, Athabasca Hall, 186 men (General office tel GE35277) St. Joseph's Coll, 100 men (tel GE31569) St. Stephen's Coll, 153 men (tel GE31153) St Aidan's House, 11 men (tel GE38756) All except St Aidan's House (11009 89th Avenue) are on campus Cost of room and bd, \$70 to \$75 per mo Full meal and restaurant service for day students provided by cafeteria Residence life is under superv of a student-staff gen 105 cttee

STAFF RESIDENCES Ten houses for sr staff members occupying admin positions, 12 suites or apartments available for limited period to new staff members with families.

NAVAL, MILITARY AND AIR UNITS Officers' trg provided for undergrads by univ naval trg. div of Royal Canadian Navy, the Alberta contingent of the Canadian officers' trg corps of the Canadian Army and the reserve univ squadron of the Royal Canadian Air Force

MEDICAL SERVICES The univ provides a com-

prehensive med service for students which is covered by a specific fee paid annually by each undergrad student and by such grad students as might want to take advantage of the service Outpatient and emergency care provided by univ infirmary, and facilities of univ hosp are available when required

STUDENTS' UNION Student affairs are handled by a students' union which has its own bidg and employs its own bus manager Union fee collected by the univ at time of registration and includes contributions to the bidg fund and to the univ athletic bd Included in the fee are the price of the yearbook and the student newspaper A cttee. on student affairs, composed of members of the exec of the student union and other student orgns and members of the admin, acts as a liaison between students and senate and bd of governors Student life is under the general superv of the provost

PUBLICATIONS. *Calendar* (spring), *Summer Session Announcement*, *Information for Prospective Univ. Students* (for matriculants), *Report of Bd of Governors* (Nov.), *The New Trail* (quarterly), july, by univ and alumni assoc., *Gateway* (student newspaper, twice weekly), *Evergreen and Gold* (annually by students), *Stet* (students' magazine—irregularly), *The History of the Univ of Alberta, 1908-1958* J MacDonald. (Univ of Alberta Printing Dept, 1959).

UNIVERSITY BOOKSTORE stocks text-books, stationery and other accessories

UNIVERSITY PRINTING DEPT The univ. maintains its own printing and bookbinding establishment on the campus

CALGARY

(see also above)

The campus at Calgary has outgrown its old quarters in the prov inst of technol and art and a new site of approx 230 acres has been donated by the city on the Banff Highway at the western limits of the city The first two bldgs are designed to house arts, educn, sci and engin, and were opened in the fall of 1960.

The univ in Calgary functions under the same constitution and under the same officers as the univ in Edmonton Sr admin officer in Calgary is the principal The various depts are under the dir of deans and dept heads in Edmonton acting through admin officers in Calgary

LIBRARY 30,000 vols.; 375 periodicals taken regularly.

LABORATORIES available for all sci. courses offered

RESEARCH LABORATORIES A lab on the campus and an underground chamber on Sulphur Mountain in Banff Natl Park are being used for the intensive study of cosmic rays The phys dept

houses an electron microscope. There is also a Calgary div of the prov lab of pub health.

TEACHING HOSPITALS Calgary General is used for trg of 2nd, 3rd and 4th yr BSc (nursing) candidates

DEGREES (of Univ of Alberta) The Univ of Alberta, Calgary, offers first 2 yrs of course leading to BEd and to degree in engin, and first 3 yrs of course leading to BEd degree in indust arts. 1st yr courses available in fac of arts & sci leading to degrees of BA, BSc, BSc in nursing and BSc in household econ The 1st yr may be taken in facs. of agrn and comm., and in sch. of phys educn.

Eng. Credit Programme 3 arts & sci courses and 2 educn courses are offered

CERTIFICATES Awarded by dept of educn Jr elem cert after 1 yr of trg, standard elem cert or standard sec cert after 2 yrs of trg

ADULT EDUCATION. APPOINTMENTS, NAVAL,

MILITARY AND AIR UNITS *See under 'Edmonton', above*

MEDICAL SERVICES Med facilities available for treatment of students upon payment of a stipulated fee

STUDENTS' UNION Student affairs are handled by a students' union The union fee, collected at registration, includes contributions to a bldg

fund, to the athletic bd and covers the cost of the student newspaper and yearbook

PUBLICATIONS *Calendar*, *Summer Session Announcement*, *Information for Prospective University Students* (for matriculants), *Report of the Governors*, *The New Trail* (quarterly), *Edmonton University and alumni assocn*, *The Gannet* (student newspaper), *The Tally Stick* (yearbook)

UNIVERSITY BOOKSTORE Text-books, stationery and other accessories are stocked

THE YEAR 1960

Edmonton

MAJOR BUILDING DEVELOPMENTS Phys. educn. bldg, phys sci bldgs, extn to med sci bldg, extn to engin bldg.

RETIREMENTS Prof W. E. Hodgson (educn), Prof Hazel McIntyre (household econ), Prof M. R. Marshall (ophthalmol & otolaryngol), Prof J. H. Sturatt (pathol)

DEATHS R. M. Strong (asst. prof of sociol); J. Uniau (prof, hd. of dept of plant sci).

HONORARY DEGREES LLD—Most Rev J. H. MacDonald, archbishop of Edmonton, S. W. Field, J. D. Soper, explorer and naturalist; E. Sonet, R. F. Farquharson, vice-pres, N.R.C.

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	4225	64
Women	2156	60
Total	6381	124

(Incl. Calgary and all avg. credit programme centres.)

Special students, 269

Summer session, 3819 (incl. Banff Sch. of Fine Arts)

Evening credit programme, 789

Distribution by Faculties and Schools *Agric.*, 117; *arts & sci.*, 1542; *comm.*, 260; *dent.*, 137; *div.*, 17; *educn.*, 1516; *engin.*, 1003; *grad studies*, 518; *household econ.*, 90; *law*, 120; *med.*, 213; *med lab sci.*, 43; *nursing*, 512; *pharm.*, 218; *phys educn.*, 106; *physiotherapy*, 54; *special students*, 135

Included in the figures above are —

New admissions, 1914.

Students from other countries, 183 (Britain & U.K. dependencies, 79; elsewhere, 104)

DEGREES AWARDED (1959-60) *Agric.* BSc, 15; *arts & sci.* BA, 163; BSc, 134; *Comm.* BCom, 39; *Dent.* DDS, 28; *Educn.* BEd, 302; BEd (indust. arts), 7; *Engin.* BSc, 202; *Grad studies* MA, 16; MSc, 54; MEd, 28; PhD, 3; DSc, 1; *Household econ.* BSc, 8; *Law* LLB, 26; *Med.* MD, 50; BSc, 1; *Nursing* BSc, 24; *Pharm.* BSc, 47; *Phys educn.* BPE, 17

DIPLOMAS AWARDED (1959-60) *Music*: 6; *Nursing nursing*, 97; *teaching & supervision*, 14; *public health*, 9; *Physiotherapy*, 22.

Calgary

MAJOR BUILDING DEVELOPMENTS. Arts & educn bldg, sci. & engin. bldg

HONORARY DEGREES. LLD—G. C. Paterson, W. G. Phillips, C. M. Sternberg, J. W. Young

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	659	99
Women	413	119
Total	1072	218

Special students, 41

New admissions, 578

Students from other countries, 4 (Britain & U.K. dependencies, 2; elsewhere, 2)

Distribution by Faculties and Schools *Agric.*, 6; *arts & sci.*, 338; *comm.*, 36; *educn.*, 743; *engin.*, 147; *household econ.*, 3; *nursing*, 12; *phys educn.*, 3; *special students*, 41.

ASSUMPTION UNIVERSITY OF WINDSOR *

Founded as Assumption College in 1857

Postal Address: 400 Huron Line, Windsor, Ontario, Canada

Cables and Telegrams: Assumption University, Windsor, Ontario

Telephones: Windsor—CLearwater 4-9246, Detroit—WOOdward 3-6113

CHANCELLOR—Most Rev J. C. CODY, DD LLD *W Ont*, Bishop of London
VICE-CHANCELLOR AND PRESIDENT—Rev E. C. LEBEL, CD, BA *Tor*, MA *Chc*, LLD *W Ont*
EXECUTIVE VICE-PRESIDENT AND REGISTRAR—Rev. P. J. M. SWAN, MA PhD *Tor*
VICE-PRESIDENT, DEVELOPMENT—Rev D. J. MULVIHILL, BA *W Ont*, MA PhD *Mich*.
CHAIRMAN, BOARD OF REGENTS—A. F. FUERKTH
CHAIRMAN, ESSEX COLLEGE BOARD OF DIRECTORS—J. W. WHITESIDE, BA *W Ont*.
TREASURER—Rev E. A. ROBERTS, BA *W Ont*, STB *St Michael's (Tor)*
LIBRARIAN—W. F. DOLLAR, MA *W Ont*, AMLS *Mich*.
DEANS OF FACULTIES—APPLIED SCIENCE—F. A. DEMARCO, MASc PhD *Tor*, FCIC, Principal, Essex College, ARTS AND SCIENCE—Rev N. J. RUTH, MA *Tor*, Principal, University College, GRADUATE STUDIES—Rev C. P. J. CROWLEY, BA *Tor*, MA PhD *Mich*, THEOLOGY—Rev D. L. EGAN, STL *C U A*

TEACHING STAFF

[(C)=staff of Canterbury Coll, (E)=Essex Coll., (R)=Holy Redeemer Coll,
(U)=Univ Coll, †=Part-Time]

Anthropology (U)		Zin, M., MBA <i>Mich</i> , BComm	Asst Prof.
	Lectr	Hanson, W., BComm <i>Sask</i> , MBA <i>W Ont</i> .	
Biology (E)		Birch, C. M., BA <i>W Ont</i> , MA PhD <i>Tor</i> .	† Instr.
Grant, Rev. A. J., BA <i>Tor</i> , MA <i>St. Bonaventure</i>		Weingarden, A. B., BA	† Instr.
Benedict, W. G., BSA PhD <i>Tor</i> .		Meanwell, R. W., BA <i>W Ont</i> .	† Instr.
Doyle, R. J., MA <i>W Ont</i> , MS <i>Mich. State</i> , PhD <i>Wayne State</i>			
Kuehner, C. C., MSc PhD <i>Ohio State</i>			
McCurdy, H. D., BA <i>W Ont</i> , MSc			
PhD <i>Mich State</i>			
Moss, Mario L., BS <i>Nebraska</i> , MS <i>Minn</i> (on leave)			
Dougherty, Rev. J. R., BA <i>W Ont</i> , STB <i>St Michael's (Tor)</i> , MS <i>Conn</i> .			
Petras, M. L., MSc <i>Notre Dame</i>			
2 Jr Demrs			
Business Administration (E)			
Horne, G. R., BA <i>W Ont</i> , MA PhD <i>Mich</i> .			
Brownlie, M., BA <i>W Ont</i> , MBA <i>Mich</i> .			
Gertz, J. B., BS <i>Detroit</i> , MBA <i>Ohio State</i>			
Chemistry (E)			
Jellinek, H. H. G., DIC, PhD <i>Lond & Camb</i> , FRIC			Prof
DeMarco, F. A., MASc PhD <i>Tor</i> , FCIC			Prof
Rutherford, K. G., BA <i>W Ont</i> , PhD <i>Wayne State</i>			Assoc Prof
Channen, E. W., BA PhD <i>Tor</i>			Asst Prof
Holland, W. J., BSc <i>Que</i> , MSc PhD <i>Wayne State</i>			Asst Prof.
Price, S. J. W., BA MSc <i>Br. Col.</i> , PhD <i>Edin</i> .			Asst. Prof.
Thibert, R. J., BA <i>W Ont.</i> , MSc <i>Detroit</i> , PhD <i>Wayne State</i>			Asst. Prof.
Kosicki, Rev. G. W., BA <i>W Ont.</i> , MS <i>Mich</i> .			(on leave) Lectr.
2 Jr Demrs.			Instr.
Classics (U)			
Hussey, Rev. J. M., BA <i>Tor</i> , MA <i>C. U. A</i>			Prof.

* Member of the Association of Universities of the British Commonwealth

- Fantazzi, C, MA *C U A*
Macdonald, Rev D G, MA *Tor*
- Economics (U)**
Phillips, W G, MA PhD *Tor* Ptof
Burns, Rev F L, MA PhD *Mich* Assoc Prof
Chrypinaki, V C, ML *Lublin Catholice U.*
MA *Wayne State*, PhD *Muh.* Assoc. Prof
White, W L., DFC, BA *W Ont*, MA *Tor*
Asst Prof
Fallenbuehl, Z M, BSc(Econ) *Lond*,
MA *Montr.* Asst Prof
Kovacs, Aranka, BA *McM*, MA *Tor*,
PhD *Bryn Mawr* Asst Prof
Callaghan, Rev J F, MA *Tor* Lectr
Gillen, W. J., MA *Tor*, BA Lectr
- Engineering (E)**, see Applied Science, below
- English (U, R)**
Crowley, Rev C P. J., BA *Tor*, MA
PhD *Mich* Prof
Manley, Mary J., BA *W Ont.*, MA
PhD *Yale* Assoc Prof
Sullivan, J F, MA *Detroit*, PhD *Mich* Assoc Ptof
Flood, Rev R F, BA *Tor.*, MSLS *C U A* Asst Ptof
Johnson, Rev K J, BA *W Ont*, MA *C U A* Asst Prof
McNamara, E. J., MA *De Paul* Asst Prof
Pappert, Rev E C, BA *Tor*, MA *Detroit*,
PhD *Ott* Asst Prof
Padley, G. A., BA DipEd *Leeds* Asst Prof
Kelly, D. P., MA *Tor* (Specch) Asst Prof
Plante, H F, BA *W Ont.*, MA *Tor* Asst Prof
Madden, Rev R J, MA *Tor*,
STB *St Michael's (Tor)* (on leave) Lectr.
2 Readers, 3 Instrs.
- Fine Art (U)**
DeLauro, J N, BFA *Yale*, MFA *Iowa* Assoc Ptof
- French**, see Mod. Langs
- Geography (E)**
Vandall, P. E., BA *W Ont* Lectr
- Geology (E)**
Weiler, Rev A. J., BA *Tor* Lectr
- German**, see Mod Langs
- History (U, R)**
Mulvihill, Rev. D J, BA *W Ont*, MA
PhD *Mich* Prof.
Nelligan, Most Rev C. L., DD BA *Laval* Assoc Prof
O'Meara, Rev J P., BA *Tor.*,
MA *Wayne State*, PhD *Ott* Assoc. Prof
Boland, Rev. F. J., BA *Tor*, MA *Detroit*,
PhD *Ott.* Assoc. Prof.
- McCormick, Rev J J., MA *W Ont* Asst Prof.
Swan, C M J F., MA *W Ont*, PhD *Camb.*
(on leave) Asst Ptof.
Vukovic, M., MA Lectr.
Rayson, Rev R S, MA *Qu.*, STB *General*
Theol. Sem, DD *Anglican Theol Coll*
(B C) Lectr
- Household Science (U)**
Sister Mary Romana, BSc *Nazareth (Mich)*,
MS *Mich State* Lectr.
- Italian**, see Mod Langs
- Mathematics (E)**
Faught, Rev D. T., BA *Tor.*, MA *Mich.* Assoc Prof
Eliopoulos, H A., BSc *Salonika*,
MSc *McG*, PhD *Tor* Assoc. Prof
Abramowich, J., BSc *Alta*, MA *Tor.*,
PhD *Calif* Asst. Prof.
Campbell, L. L., BSc *Manit*, MS *Iowa*,
PhD *Tor.* Asst. Prof
Klemola, M. T., MagPhil PhD *Helsinki* Asst Prof
Nigh, Rev W F, BA *W Ont*, MA *Houston* Asst. Prof
Verma, S, BSc *Patna*, MSc *Bihar*,
PhD *Wayne State* Asst Prof
Zakon, E R, MgrPhil DiJui *Vilna* Asst Prof
Zayachkowski, W, BA *Sask*, MA
PhD *Alta* Lectr
- Modern Languages (U)**
Drouillard, Rev. C. J., MA *Tor*, PhD *Laval*
(French) Prof.
Sabatino, M A, AM *Miami (Fla.)*,
DML *Middlebury* (Italian) Assoc Prof
Thibault, A. A., AB *Boston Coll*, AM *Harv*,
LesL *Paris*, DesL *Laval*
(French) Assoc Prof
McCarthy, Lillian M, MA PhD *Tor*
(French) Assoc. Prof
Sister Pauline of Mary, BA *W Ont*,
MA *Laval* (French) Asst Prof
O'Donoghue, Rev J. M C, MA *Tor*
(Spanish) Asst. Prof
Pazik, Rev R S., BA *W Ont*, MA *Tor.*
(Spanish) Asst Prof
Weiler, Rev A J, BA *Tor* (German) Lectr
Zakon, Mrs Batia, MA *Vilna* (Russian) Lectr
Thibault, Mrs Mary M, BA *St Jos*,
MA *C U A*, Dipl de prof de français
à l'étranger *Paris*, Dipl *Inst de Phon*,
Paris (French) †Inst
- Music (U)**
Ginski, M Sp Prof.
Leach, Mrs Violet W, AM *Wayne* †Instr
- Nursing (E)**
Roach, Florence M, BS *Seton Hall* Prof.

Sanders, Leta G, BS MA Col

Lectr
Inst

Nelligan, Most Rev C L, DD BA Laval

Philosophy

Garvey, Rev. E C., MA PhD Tor. Ptof (U)
 Kingston, Rev. F T., MA LTh BD Tor.,
 DPhil Ovon Ptof (C)
 Flood, P F, MA W Ont Assoc Ptof (U)
 Alexander, Rev A E, PhL Frib Asst Ptof (R)
 Powers, Rev R D, MA C U A Asst Prof (R)
 Swan, Rev P J M, MA PhD Tor.

Deck, J N, MA W Ont, PhD Tor

Graham, J M, MA W Ont Asst Prof (U)

Daley, Rev J, BA W Ont, MA Tor, Asst Ptof (U)

STB St Michael's (Tor) Lectr (U)

Brown, J, BA Iona (N Y), MA Tor. Lectr (U)

Cunningham, S B, BA Mant, MA Tor

Nelson, R., MA DePaul Lectr (U)

Lectr (U)

Physics (E)

Krause, L., BSc Lond, MA PhD Tor

Huschilt, J, MA Tor. (on leave) Asst. Prof.

Gokhale, N R, MSc PhD Bomb Asst. Prof.

Rankin, D, MA Br. Col. Asst. Prof.

Habib, E E, BSc Bnm. Lectr

Koenig, R H, MSc McM Lectr

Ruei, K H, ME Ordnance Engin Coll

(Taiwan), MME PhD Syr. Lectr.

Brockman, I H., BE Sask Instr

1 Technician

Political Science (U)

Chrypinaki, V. C., MA Wayne, PhD Mich

Asst. Ptof.

Psychology (U)

Philp, Bro. R, MA Tor, PhD C U A. Prof.

Sister Marion Dolores, BA Marylhurst,

MA PhD Loyola (Ill.) Ptof.

Cervin, V B, MA Amei Univ, Beut,

DiSocSc Brussels, PhD Prague Assoc Prof

Malone, Rev. J. A., BA W Ont., MA Tor.,

PhD Fordham Assoc. Prof

Record, Rev. M. A., BA W Ont, MA Tor.

Smith, A. A., MA Qu, PhD McG Assoc Prof

Fehr, Rev. R. C., BA Tor, MA Detroit,

PhD Fordham Assoc Prof

Menn, W. R., BA Texas, MA C U A Asst Prof

McGouey, Rev. T. J., BA W Ont Lectr

Mann, Mrs. Anne M., BA Bryn Mawr,

MA C U A. †Inst.

Religious Knowledge

McCann, Rev. L. A., BA W Ont, STB

Pontif. Athen Angelicum, STD Laval

Ptof (U)

Rayson, Rev. R. S., MA Qu, STB General

Theol. Sem., DD Anglican Theol Coll.

(B.C.) Prof. (C)

Egan, Rev. D. L., STL C U A Assoc Prof (U)
 Crowley, Rev. E. J., BA St. Jor, STL C U A.,
 SSL Pontif Bibl Inst Asst. Prof (U)
 Kingston, Rev. F. T., MA LTh BD Tor, DPhil Ovon Lectr. (C)
 Murray, J. C., BA W Ont, STB St Michael's
 (Tor), STL Pontif Athq Angelicum Lectr (U)

Russian, see Mod Langs**Sociology (U)**

Helling, R. A., BA Wayne, Dipl Socialwrt
 Wilhelmshaven Lectr
 †Inst

Spanish, see Mod Langs**Speech, see English****APPLIED SCIENCE (E)****Chemical Engineering**

Adelman, M., MASC PhD Tor Prof
 Gny, A. W., MASC PhD Tor Asst Prof.
 Tien, C., BS Natnl. Taiwan, MS Kansas
 State, PhD Northwestern Asst. Prof
 Thibodeau, R. D., BASC Tor, MSc Sp Lectr.

Civil Engineering

Herbich, H. P., Diplng Warsaw,
 DSc Edin Prof
 Wu, T. S., BS Natnl Chiao-Tung, MS Wash,
 PhD Ill Assoc Prof
 Duquette, D. J., BA W Ont,
 MS Mich State Asst Prof.
 Apostolopoulos, H. A., BCivilEng
 MSc McM Lectr
 Hatt, J. P., BASC Tor Lectr
 Montrose, C. H., BSc Qu. †Inst

Electrical Engineering

Fletcher, H. R., MASC Tor Asst. Prof.
 Hwang, H. H., BS Natnl. Chiao-Tung, MS
 PhD Lehigh Asst. Prof
 Dethow, P. A., CivEng Chalmers T H Lectr
 Joyce, J. D., BSc Qu., MSE Mich Lectr.
 Huschilt, J. J. M., BASC Tor Instr.

Engineering Physics

Billinghurst, R. G., MASC Tor Assoc Prof.

Mechanical Engineering

Colborne, W. G., MSc Qu Assoc. Prof
 Tucker, H. J., MEng McG Asst Prof
 Baby, G. B., MSc Mant. Lectr.
 Howell, Rev. A. R., BSc Sask, STB St.
 Michael's (Tor.), MASC Tor Lectr

THEOLOGY (R)

Canon Law
McAulay, Rev. L. C., BA *St Dun.*,
JCL *Pontif. Athen. Lat. an*
Lectr.

Church History
Egan, Rev. D. L., STL C.U.A. Assoc. Prof.
McCormick, Rev. J., MA *W. Ont.* Asst. Prof.

Dogmatic Theology
Owens, Very Rev. L. G., STL *Pontif.*
Athen. Angelicum Prof.

Moral Theology
Thomas, Rev. A. J., JCD *Laval* Asst. Prof.

Pastoral Theology

Kelly, Rev. T. I., STL C.U.A. Lectr.
Powers, Rev. R. D., MA C.U.A. Asst. Prof.

Sacred Scripture

Crowley, Rev. E. J., BA *St Jos.*, STL C.U.A.,
SSL *Pontif. Bibl. Inst.* Asst. Prof.

UNIVERSITY EXTENSION

Special Lecturers

Jackson, R. D. (Acctg.)
Kuk, J., BComm (Acctg.)
Lewitt, W. G., BAsc *Tor.*, MBA *Detroit* (Indust. Orgn.)
Masterson, J. P. (Indust. Orgn.)
Mongean, J. C., BSc (Bus. Math.)
Ruster, G. B., BEng *McG* (Indust. Orgn.)
Taylor, R. W., BA (Acctg.)
Zuber, T. G., BA *W. Ont.* (Law)

ADMINISTRATIVE AND OTHER STAFF

Dir. of Extension Rev. E. C. Pappert, BA
Tor., MA *Det. ont.*, PhD *Ont.* Asst. Registrar:
Barbara H. Birch, MA *W. Ont.* Dir., Christian
Culture Series Rev. J. S. Murphy, BA *W. Ont.*,
MA *Tor.* Dir. of Athletics R. J. Moriarty, BA,
Dean of Men Rev. D. T. Faught, BA *Tor.*,
MA *Mich.* Dean of Women Sister Marian
Dolores, BA *Marylhurst*, MA PhD *Loyola (Ill.)*

Chaplain Very Rev. F. L. Buins, BA *W. Ont.*,
MA PhD *Mich.* Dir. of Devel. & Public Relns.
J. E. Thompson, MC, BA *Manit.* Med. Adviser
F. G. De Marco, MD *W. Ont.* Alumni Sec.,
Manager, Placement Bureau R. J. Schiffelli,
BA *W. Ont.* Asst. to Student Publics Mrs.
Charlotte B. Perry, BA *W. Ont.*

AFFILIATED COLLEGES

CANTERBURY COLLEGE, 172 Patricia Rd.,
Windsor, Ontario (tel. CLeawater 6-6442).
Founded and affiliated 1957 Anglican liberal
arts coll., offering courses in theol., mediev. hist.
and philos. to undergrads in any course. Principal—Rev. R. S. Rayson, MA *Qu.*, STB *General Theol. Sem.*, DD *Anglican Theol. Coll. (B.C.)*

ESSEX COLLEGE, Windsor, Ontario (tel.
CLeawater 4-9246). Founded and affiliated
1956 Non-denominational Comm., engin.,
nursing, sci., grad. work in sci. and comm.
Principal—F. A. DeMarco, MAsc PhD *Tor.*,
FCIC.

HOLY NAMES COLLEGE, Windsor, Ontario (tel.
CLeawater 2-5998). Residential facilities for
women. Founded and affiliated 1934. Instrumt.
services merged with Univ. Coll. in 1950. Principal—Sister Marian Dolores, BA *Marylhurst*,
MA PhD *Loyola (Ill.)*

HOLY REDEEMER COLLEGE, Windsor, Ontario
(tel.: Yorktown 9-2840). Founded as St.
Alphonsus Seminary, Woodstock, Ont., 1930.
Affiliated, 1956. Provides 4 yr. arts and 4 yr.
theol. for Redemptonist scholastics leading to BA
and STB of the Univ. Principal—Very Rev.
L. G. Owens, STL *Pontif. Athen. Angelicum*

GENERAL INFORMATION

Founded 1857 by Rev. Pierre Point, pastor of
Assumption Parish, Sandwich (Windsor). Incorporated
1858 by a public act of the legislature
of the Province of Canada. Conducted by
the Basilian Fathers in 1857-58 and since 1870 Most
Rev. D. O'Connor, DD, president 1870-90,
lengthened the arts course from 2 to 4 yrs., and
was responsible for considerable academic and
material progress. Affiliated with the fac. of arts
and science of the Univ. of Western Ontario in
1919. The Assumption College Act, 1953, passed

by the legislature of the province of Ontario,
amended the original act of incorporation, varied
the administration of the coll. and enlarged and
specified its university powers. Affiliation ceased
July 1, 1953, and the following year the coll. was
admitted to the National Conference of Canadian
Univs.

A reorganization of the fac. of arts and science
took place in 1956, whereby the depts. of the
natural scis., maths, engin., nursing educn. and
bus. admin. were assigned to Essex Coll. under

its own non-denominational bd of durs and the remaining depts of this fac were grouped into an academic unit known as University College, under the direct control of the Assumption bd. of governors. In March 1956 the Ontario legislature passed an act which changed the name of Assumption College to Assumption University of Windsor.

The univ and university coll are operated by the Basilian Fathers, a Roman Catholic order conducting univs, colls and secondary schs. in Canada, the U.S. and France. The affiliated colls are legally and financially distinct, but subject in academic matters to the senate.

The univ is located in the city of Windsor (pop. 190,880) and serves a pop. of approx. 331,000 in S.W. Ontario.

CONSTITUTION. The univ is administered by 21 bodies: the bd of governors (8 univ admin and fac. members apptd by the Basilian Fathers and 1 member apptd by Essex Coll.), primarily concerned with finance, and the senate which is the official authority on all academic matters. The senate is partly univ admin and fac. members, *ex officio*, partly elected by fac. members and univ grads, and partly apptd by outside bodies, e.g. city and county councils, educ. and professional groups. The bd of governors is advised by a bd of regents, consisting of reps of affiliated colls and persons representing the religious, ethnic, social and economic aspects of the community.

INCOME (1959-60) Total income (operational), \$1,722,978 (tuition & other student fees, 26.9 per cent; govt. grants, 35.2 per cent (federal, 15.6 per cent, provincial, 16 per cent, municipal, 3.6 per cent); ancillary enterprises, 2.6 per cent; contribution from religious groups, 7.9 per cent; other sources, 5.4 per cent).

FACULTIES AND DEANS. See p. 147.

UNIVERSITY PRECINCT. The univ is housed in a group of bldgs. on a 100-acre campus bordering the Detroit river. These include the administration bldg., staff and student residences, Dillon Hall (Univ. Coll. lecture and seminar rooms, labs for household sci., langs and psychol.), Memorial Sci. Bldg. (biol., chem., and phys. labs, biol. museum, audio-visual aids), Essex Coll. (engin. and geol. labs, amphitheatre), St. Denis Hall (gymnasium and swimming pool) and Univ. Centre (offices of the students' admin. council, student pices, lounge, cafeteria, drama workshop and games room). Extensive playing fields available on campus.

LIBRARY. opened 1958, has 94,000 vols. and 16,000 bound vols. of periodicals.

ADMISSION. See Appendix III.

FIRST DEGREES 3 yrs from sr. matric—BA, BSc, BComm, 4 yrs from sr. matric—BA hons., BSc hons., BComm hons. (in bus. admin.), BHSc hons., BASc (in chem., civil, electr. and mech. engin., and in engin. phys.), 5 yrs from sr.

matric—BScN. The 1st yr. of pass and hons. courses is common, remaining yrs. are separate. BA hons. may be taken in econ. & pol. sci., Engl., French, hist., philos., psychol., Spanish. BSc hons. in biochem., biol., chem., maths, phys., 3 yrs from BA—STB.

The univ. offers also 1st yr. pharmacy (course must be completed at another univ.)

2nd division offers BA, BComm pass courses equivalent to those offered in day division but extending over a longer period.

HIGHER DEGREES 1 yr from hons. or 2 yrs from pass degree—MA, MSc, MBA, 1 yr from BAsc—MAsc, 3 yrs from hons. degree or 2 yrs. from master's—PhD. These degrees are open to grads of other univs. Courses of instruction offered (for MA) in econ., Engl., hist., philos., psychol., (for MSc) in biol., chem., maths, phys., (for MBA) in bus. admin., and (for MAsc) in chem., civil, electr. and mech. engin., (for PhD) in chem.

HONORARY DEGREES DCL, LLD, DSc, DLitt, MusD.

The univ. does not award **EXTERNAL DEGREES**.

DIPLOMAS. Management, pub. health nursing, nursing educ., nursing service admin., each course 1 yr. for grads in respective fields.

CERTIFICATE Bus. admin., 3 yrs in evg. division.

STUDY LEAVE. It is regular practice to permit staff members pursuing higher degrees to have one or more calendar yrs' leave of absence (in addition to summers).

FEES. Annual tuition and misc. fees—full-time engin., \$550; all other courses—undergrad \$465, grad \$412.50, part-time and extension \$35 each hour (per wk. in winter session or per day in summer sch.). Students from outside the Commonwealth pay \$20 per suby. extra (to a max. of \$100 per yr.). Room and board—\$650 p.a.

ACADEMIC YEAR. Winter session, mid-Sept to mid-May. 2 terms, 16 wks. each.

SUMMER SESSION. Day classes in selected undergrad subjects are offered in a 6-wk. summer session—July and Aug. BA pass course may be taken.

ADULT EDUCATION. Evening courses, provided for employed men and women seeking degrees and dipl., are open as well to those interested only in single subjects. In addition, extension courses, for which no academic credit is allowed, are offered at low cost for interested members of the public. Since 1934 the univ. has sponsored for public benefit an annual series of lectures and recitals by outstanding persons, known as the Christian Culture series.

PRINCIPAL 'OPEN' AWARDS offered to students entering the univ. for the first time. Univ. entrance schols.—\$3200 (16 offered annually), \$1500 for residents of Essex Co. (unlimited).

number for grade XIII grads with averages of 75 per cent or better); Friends of Assumption Foundation, Inc. scholarships—\$2000 (2 offered annually), Assumption Alumni awards—\$3200 (2 offered annually). Students entering the univ are eligible for Dominion-Provincial type A bursaries, Navy League of Canada bursaries, I.O.D.E bursaries, Canadian Legion bursaries, Atkinson Charitable Foundation bursaries and others offered to students entering various instns of higher learning.

PRINCIPAL 'OPEN' POSTGRADUATE AWARDS Fellowships, varying from \$500 to \$2000, offered for study towards MA and MSc degrees.

MILITARY TRAINING. Preparations for commissioned rank in the active or reserve forces of the Canadian navy, army or air force is made possible by membership in the univ training division, the Canadian officers' training corps or the R C A F reserve univ squadron. Trg. is on a pt-time

basis during the academic session, full-time during the summer months.

STUDENT SERVICES. Counselling and guidance facilities and a student placement service available. The univ has dormitories for men (200) and, in Holy Names Coll, for women (80). The univ maintains, in addition, a housing registry through which rooms or rooms and board may be located in near-by homes. Extra-curricular activities are controlled by an elected students' admin council.

ALUMNI ASSOCIATION Founded 1903. Monthly publication *The Alumni Times*.

PUBLICATIONS By the univ—*President's Report*, *General Announcement* (incl admission requirements, general regns & courses), *Grad Studies*, evg division, summer session and admission brochures, all annually. By the students' admin council—*The Lance*, bi-monthly newspaper, *The Ambassador*, annually, *Student Handbook*, annually, *The Kaleidoscope*, annually.

THE YEAR 1960

PRINCIPAL BENEFACTIONS For research, \$40,462, for operation, \$194,000, for bldg purposes, \$118,714.

(Total value of all benefactions received \$353,226)

RESIGNATIONS C Fay (anthrop & philos), to St. Paul's, Manlt, G Klembauer (maths), to grad. studies, R. E MacDonald (phys), to industry.

HONORARY DEGREES LL.D.—S Freedman, chancellor, Manlt, H F Légaré, rector, Ott.

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	967	853
Women	240	384
Total	1207	1237

Distribution by Faculties *Appl sci*, 153; *arts & sci*, 2192, *grad studies*, 82, *theol*, 17
Total 2444

Included in the figures above are —

Postgraduate students, 82

New admissions, 920

Students from other countries (full-time only), 206 (Countries from which largest numbers came U.S.A., 142, Hong Kong, 23, W. Indies Fed, 11)

DEGREES AWARDED (1959-60). BA, 145; BComm, 27, BSc, 25, BScN, 1, MA, 4, MSc, 1. Total number of first degrees awarded, 197

DIPLOMAS AWARDED (1959-60) Bus admin., 9, nursing educn, 5, pub health nursing, 1

BISHOP'S UNIVERSITY

Founded 1843, Royal Charter 1853

Postal Address Lennoxville, Quebec, Canada

Cables and Telegrams Bishop's University, Lennoxville

Telephone Lorraine 2-7922

VISITORS—THE ARCHBISHOP OF QUEBEC AND THE BISHOP OF MONTREAL

CHANCELLOR—Hon Mr Justice D C ABBOTT, BCL Hon LLD *McG*, Hon DCL

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REGISTRAR—W L TOMKINS, BA

VICE-PRINCIPAL—Professor A L KUEHNER, MA *Qu*, Hon DCL, FCIC

DEANS—ARTS—A W PRESTON, MA *Edm* & *Oxon*, Hon DCL (Classics), DIVINITY—Rev S. JILLCOE, MA BD *Dunh*, DD *McG*, SCIENCE—A L KUEHNER, MA *Qu*, Hon DCL, FCIC (Chem)

TEACHING STAFF

[† = Part-Time]

Biology

Langford, A L, BA *Qu*, MA PhD *Tor* Prof
Sepp, L, *GraduZool Tartu* (Zool) Lectr

Business Administration

Duval, R E, MBA *W Ont*, BA Prof
Patridge, D C, MBA *Harv* Asst Prof

Chemistry

Kuehner, A L, MA *Qu*, Hon DCL, FCIC Prof, Hd of Dept
McCubbin, J. W., MSc *Qu*, PhD *McG* Prof
Van Horn, W. F., MSc *McG*, BSc Asst Prof

Classics

Preston, A W, MA *Edm* & *Oxon*, Hon DCL Prof
Thaler, R P, BA *Tennessee*, MA III, PhD *Harv* Assoc Prof
Valhillee, G, MA PhD *McG* Assoc Prof
Fry, Marion G, MA *Dal*, BLatt *Oxon* Asst Prof

Divinity

Jillcoe, Rev. S., MA BD *Dunh*, DD *McG*, Prof
Anido, Rev J D F, MA *Oxon* Mountain Prof
Crouse, Rev. R. D., BA *Dal*, STB *Harv*, MTh *Trin.Coll.Tor.* (Church Hist.) Asst. Prof.
Forth, Rev D S, BA BD *McG*, LTh *Montreal Diocesan*, PhD *Gamb* (Syst. Theol. & N T.) Asst. Prof.

Economics

Judson, T A, BSc *Manit*, MA *Tor* Assoc. Prof

Education

Jeffers, J D, MA *McG*, PhD *Tor*, BA Prof

English

Gray, J., MA *Aberd* & *Oxon* Prof, Hd. of Dept
Motyer, A J, BA *Mt All*, MA *Oxon*. Assoc. Prof

Reisner, T. A, BA *StrG.Wms*, MA *Montr.* Lectr.
Converse, W, BA †Lectr.

History

Masters, D. C., MA *Tor*, DPhil *Oxon*, FRSCan Prof.
Thaler, R P, BA *Tennessee*, MA III, PhD *Harv*. Assoc Prof

Mathematics

Taylor, S, MA *Oxon* Prof
Van Horn, W F, MSc *McG*, BSc Asst Prof

Modern Languages

Yarnall, E. H., MA *Tor*, Dpld'EtSup *Paris*, Cert *Inst dePhon*, *Paris* Prof
Keffler, L W., BA *Tor* Asst Prof

Philosophy

Poole, C F, BA *Dal*, MA PhD *Tor*. Asst Prof
Fry, Marion G., MA *Dal*, BLatt *Oxon* Asst Prof

Physics

Home, M S, BA *Br Col*, MSc *McG*
Dutton, H M, BSc *Lond*, MSc *W Ont*

Prof
Prof

Psychology

Smith, D D, BA *SurG.Wms.*, MA *Minn*,
PhD *McG*, Assoc Prof

ADMINISTRATIVE AND OTHER STAFF

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BA Sec-Treasurer, Alumni Assocn. A R
Almond, BA Dir of Athletics & Placement

Officer G Smith Hon Consultant for Clin
Pastoral Trg T J Quintin, MD CM *McG*,
FACP

GENERAL INFORMATION

The coll, founded in 1843 (and deriving its name from the 3rd bishop of Quebec who helped to found it), was in 1853 by royal charter constituted a univ with power to confer degrees

CONSTITUTION The univ. is administered by a corporation, whose members are apptd by jt action of the Anglican bishops of the province of Quebec on the recommendation of a nominating cttee composed of the chancellor, vice-chancellor and pres and vice-pres of the corporation. The corporation consists of 21 trustees and 9 coll. council members. An executive cttee, apptd. at annual meeting in Oct, consists of the chancellor, pres and vice-pres and principal *ex-officio* and 10 other members.

INCOME (1959-60) Total, \$560,000 (govt. grants, 25 per cent.; endowments, 19 per cent.; fees, 50 per cent.; other sources, 6 per cent.).

FACULTIES. Arts & sci; div For deans, see p. 153

UNIVERSITY PRECINCT Campus with its century-old chapel, mod library and students' residences is situated on outskirts of Lennoxville at confluence of Massawippi and St. Francis rivers. Most profs are provided with homes on the campus

LIBRARY. 34,000 vols.

LABORATORIES Biol., chem, phys

ADMISSION See Appendix III

FIRST DEGREES 4 yrs from jr matric—BA pass, hon, BSc pass, hon, BA in bus admin. A student who enters the univ with high standing may be allowed to complete pass degree course in 3 yrs from jr matric. BA hon may be taken in classics, econ, econ & hist, econ & maths, Engl, Engl & French, Engl & hist, Engl & philos., French & hist, French & Latin, hist, hist & philos, maths & phys, mod langs., or philos & theol. BSc hon may be taken in biol & chem, chem & maths, chem & phys, or maths & phys.

Theol students take BA with theol options (3 yrs) followed by 2 yrs of theol. study for LST.

HIGHER DEGREES 2 yrs. postgrad.—MA (may be taken at present in educn., Engl, hist., theol.) 2 yrs. postgrad (or 4 summer sessions) plus 2 yrs teaching experience—MED BD, DD and STh

(scholar in theol.) awarded by the univ in accordance with regns of Bd of Examiners of General Synod of Anglican Church of Canada

HONORARY DEGREES DCL, DD

The univ does not award EXTERNAL DEGREES

CERTIFICATE COURSE 1 yr postgrad course for Quebec high sch cert

LICENTIATE 2 yrs —LST (lic. in sacred theol) (a div dipl which relates to the practical side of trg. for LST is also conferred)

STUDY LEAVE is granted at the discretion of the governing body

FEES (p a). Tuition \$400 (arts), \$310 (div. & educn.), \$435 (sci) Bd & lodging (incl heating & lighting) \$600 extra (single room), \$550 (double room)

ACADEMIC YEAR Two terms. Sept to Dec, Jan. to May

SUMMER SESSION Grad courses, with credits towards MEd, offered during 6 wk summer session for secondary sch teachers. All resident requirements for MEd may normally be met by attendance at 4 summer sessions

There are no 'OPEN' POSTGRADUATE AWARDS offered by, or tenable solely at, the univ

STUDENT RESIDENCES Except for those living at home or with relatives, all undergrad students must reside in the univ or in approved lodgings, there are residences for 189 men (Norton Hall, McGleat Hall, Old Lodge, Pollack Hall) and for 115 women.

MILITARY FORMATIONS C O T C Bishop's Univ Contingent (C O. Capt E V. Pilgrim, MA) offers trg for undergrads. who wish to prepare for commissions in the Canadian army (regular or milite)

STUDENT EXECUTIVE COUNCIL. Student affairs are administered by this council which also regulates the financial assistance given to student societies.

PUBLICATIONS *Calendar* (March), no charge. Students' *The Mite*, 3 times per session; *The Campus*, weekly during session, *The Year Book*, annual. History *Bishop's University The First Hundred Years*. D. C. Masters. (Clarke, Irwin, 1950).

THE YEAR 1960

RESIGNATIONS N R Isenor (phys), Dorothy Van Horn (asst librarian)

HONORARY DEGREES *DCL*—Hon. D M Fleming, Minister of finance for federal govt, Most Rev H. H. Clark, primate of Anglican Church of Canada; Hon A-Y Prevost, prov sec for P Q, O. B Thornton, pres, Montreal Trust Co, Kathleen Atto, chief, Nursing Service, Veterans' Admin., Massachusetts, G. McC Stearns; Hon J W Mitchell, Prof A W Preston (classics); C L O Glass

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	255	1
Women	180	1
Total	435	2

Distribution by Faculties *Arts & sci*, 429;
div, 8 Total 437

Included in the figures above are .—

Postgraduate students, 2

New admissions, 118

Students from other countries, 1.

DEGREES AWARDED (1959-60) *Arts & sci*.
BA, 32, BSc, 14. *Div* BD, 1, LST, 6

DIPLOMAS AWARDED (1959-60) *Div*, 6

CERTIFICATES AWARDED (1959-60). Quebec
interim class I educn., 11.

UNIVERSITY OF BRITISH COLUMBIA*

Founded 1908

Postal Address Vancouver 8, British Columbia, Canada

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Telephone CA4-1111

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Alaska, Hon DCL *Sask* & *Whitman*, Hon DScSoc *Laval*, FRSCan

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Alta & *Br Col*, AGRICULTURE—B EAGLES, MA PhD *Tor*, BA, FRSCan, FCIC (Animal Sci),
APPLIED SCIENCE—D M MYERS, BSc BE DScEng *Syd*, MIEAust, FIP (Electr Engin), ARIS
AND SCIENCE—S N F CHANT, OBE, MA *Tor*, Hon LL.D (Psychol), COMMERCE AND BUSINESS
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Lond, FORESTRY—G S ALLEN, PhD *Calif*, MASC, GRADUATE STUDIES—F H SOWARD, BA *Tor*,
BLitt *Oxon*, FRSCan (Hist), INTER-FACULTY AFFAIRS—W H GAGE, MA Hon LL.D (Maths),
LAW—G F CURTIS, QC, LLB *Sask*, BA BCL *Oxon*, Hon LL.D *Dal* & *Sask*, Hon DCL *New Br*,
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DEAN AND DEPUTY TO THE PRESIDENT—G C ANDREW, BA *Dal*, MA *Oxon*

REGISTRAR AND SECRETARY OF SENATE—J E A PARNALL, MA *Tor*, BA BEd

LIBRARIAN—

TEACHING STAFF

[†=Part-Time]

Agricultural Economics

Anderson, W J., BSA MSc *Sask*, PhD *Chic*
Prof, Chairman of Dept.
Richter, J J, DirRerPol *Graz* Asst Prof

Kitts, W D, PhD *Iowa State Agric*, MSA
(Animal Husb) Assoc Prof, Assoc. Dir.
of Central Animals Depot
Neilson, Nora E, PhD *Calif*, MSA
(Dairying) Asst Prof.

Agricultural Engineering and Agricultural Mechanics

Coulthard, T L, BE *Sask*, MSc *Calif*
Prof, Chairman of Dept
Staley, L M, MSc *Calif*, BASc Asst Prof
Watson, E L, MSc *Calif*, BASc Asst Prof

Anthropology and Sociology

Hawthorn, H B, MSc BA *N Z*, PhD *Yale*,
FRSCan (Anthropol) Prof, Hd of Dept
Belshaw, C, MA *N Z*, PhD *Lond*
(Anthropol) Prof
Naegele, K. D., BA *McG*, AM *Col*,
PhD *Hav*. (Sociol) Assoc Prof
Suttles, W, BA PhD *Wash*
(Anthropol) Assoc Prof
Robson, R A H, BSc *Lond*, PhD *Minn*.
(Sociol) Assoc Prof.
Blisken, B R, MA *McG*
(Sociol) Asst Prof, Dir., Inst of Sociol
& Econ Res
Cohn, W., BSc *C C N Y*, PhD *N Y Sch*.
for Soc Res (Sociol) Asst Prof
Dunning, R W., MA *Tor*, PhD *Camb*
(Anthropol) Asst Prof

Animal Science

Eagles, B., MA PhD *Tor*, BA, FRSCan,
FCIC (Dairying) Prof, Chairman of Div
Berry, J C, PhD *Iowa State Agric*,
MSA (Animal Husb.) Prof
Campbell, J J R, PhD *Corn*, BSA,
FRSCan (Dairying) Prof
Wood, A J., PhD *Corn*, MSA
(Animal Husb.) Prof, Dir of Central
Animals Depot
Mackenzie, C D, PhD *Aberd*, MSA
(Animal Husb) Prof, Asst. to Dean

* Member of the Association of Universities of the British Commonwealth

Lyman, S, MA *Calif* (Sociol) Instr.
 Boiden, C E, MA PhD *Calif* (Archaeol.) Lectr
 Cheney, G A, BA *Wash* (Anthropol.) Lectr
 Jameson, S, MA *McG*, PhD *Calif*, BA
 (Sociol) Lectr
 Richmond, A H, BSc *Lond*, MA *Liv*
 (Sociol) Visiting Lectr
 Srivastava, R P, MA *Luck*, PhD *Saug*
 (Anthropol) Visiting Lectr

Architecture

Prof, Dir of Sch
 Wisnucki, B P, DipEng *Lwow*, MEIC Prof
 Armstrong, A H, BArch *Tor*, Assoc Prof
 BLSc N Y
 Gerson, W Assoc Prof, Actg Dir
 Oberlander, H P, BArch *McG*, MCP
 PhD *Harv*. (Planning & Design) Assoc Prof
 Robinson, I. M., AB *Wesleyan*, MA *Chic*
 (Planning) Asst. Prof
 Lyman, V F., IngArch *Prague* Asst Prof
 Enckson, A. C., BArch *McG* Asst. Prof
 Rogatnick, A., BA BArch *McG* Asst. Prof
 Thomas, L. A. J Asst Prof.
 Tiers, C A, MArch *M I T*, BArch Asst Prof
 Binning, B C. (Fine Arts) Hon. Lectr.
 Devison, K B, BArch *Manit.* Sp. Lectr
 McClean, A. K., LLB *Belf* Sp. Lectr
 Porter, J C H., BArch *McG*, | Lectr.
 Wilson, J W, BSc *Glas*, MSc *M I T*,
 MRP *N Carolina* | Lectr.

Asian Studies

Holland, W L., MA *N Z* Prof, Hd of Dept
 Ho, Ping-tu, BA *Natnl Tsing Hua*,
 PhD *Col* Prof
 Kato, S, MD *Tokyo* Assoc Prof
 Wang, Yi-Tung, MA *Yenching*, PhD *Harv*
 Assoc. Prof
 McKay, J R, BA *Clark*, MA *Boston*,
 PhD *Montr*, FRSCan Lectr.
 Suttles, W, BA PhD *Wash* Lectr
 Langdon, F C, MA *Harv*, PhD *Calif* Lectr

Bacteriology and Immunology

Dolman, C E., MB BS PhD DPH, FRCPCan,
 FRCP, FRSCan Prof, Hd of Dept
 Duff, D C B, MA PhD *Tor* Prof
 Stock, J. J., BSA *Tor*, MSc PhD *McG*
 Assoc Prof
 Bismanis, J E, DipBact *Latvia*, MD Asst Prof
 Cockcroft, W. H., DPH MD *Tor* Asst Prof
 Gerwing, Mrs Julia, PhD *Lond.*, BA
 Instr.
 Shearer, A R, BA † Lectr.

Biology and Botany

Taylor, T M C, MS *Wis*, PhD *Tor*, BA
 Prof, Hd of Dept. & Dir of Bot Garder
 Allardice, J., PhD *McG*, MA Prof
 Wort, D J., MSc *Sask*, PhD *Chc.* Prof
 Bier, J E, BScF MA PhD *Tor* Prof.
 Krajna, V, DSc(NatSci) *Prague* Prof
 Seagel, R. F., PhD *Calif*, MA
 (Oceanog.) Assoc. Prof.

Pillsbury, R W., MA Asst Prof
 Cole, Kathleen, PhD *Smith*, MA Asst. Prof
 Bandoni, R J, BS *Neuada*, MS PhD *Iowa*
 Asst. Prof
 Rouse, G. E., BA MSc PhD *McM*, Asst. Prof
 Beamish, Katherine, PhD *Wit*, MSA Asst Prof.
 Kujiu, J, PhD *Calif*, BA Instr
 Stern, Janet R, BA *Colorado*, MA *Wellesley*,
 PhD *Calif* Instr
 Schofield, W B, MA *Stan.*, PhD *Duke* Instr
 † Post-Doctoral Fellow

Business Administration, see Commerce**Chemistry**

McDowell, C A, DSc *Belf*, FRIC, FCIC
 Prof, Hd. of Dept.
 Bryce, W. A, MA *Sask*, PhD *McG*,
 DPhil *Oxon*, FCIC Prof.
 Halperin, J, BSc PhD *McG*, FCIC Prof
 Harris, J A, PhD *Ill.*, MA, FCIC Prof.
 Hooley, J G, PhD *M I T*, MA, FCIC Prof
 Reid, C, DIC, BSc PhD *Lond*, FCIC Prof
 Clark, H C, MSc *N Z*, PhD *N Z*, & *Gamb*
 Assoc Prof.
 Dunell, B. A, AM PhD *Prin*, MAsC,
 FCIC Assoc Prof
 Dutton, G G S., MA *Camb*, MSc *Lond*,
 PhD *Man*, FRIC Assoc. Prof
 Hayward, L D, BA *Sask*, PhD *McG*,
 FCIC Assoc Prof
 Stewart, J. R, PhD *Wash*, MA, FCIC
 Assoc. Prof.
 Broe, A, BSc PhD *Syd* Asst. Prof
 Daggett, H. M., Jr, BSc *Qu*, PhD *Brown*
 Asst. Prof.
 Faure, J B, BSc PhD *Liv* Asst. Prof.
 Frost, D C, BSc PhD *Liv* Asst. Prof
 Harrison, L G., BSc PhD *Liv* Asst Prof
 Harvey, K B, BA *Tor*, DSc *Laval* Asst Prof
 Hochstasser, R, PhD *Edin* Asst Prof
 James, D G L., MA PhD *Camb* Asst Prof
 Porter, G B, BS *Calif*, PhD *S Calif* Asst Prof
 Cullen, W R, MSc *N Z*, PhD *Camb*
 Asst Prof
 Reeves, L W, BSc PhD *Brist* Asst Prof
 Snider, R F, BSc *Alta*, PhD *Wis* Asst Prof
 Rosenthal, A, BEd MSc *Alta*, PhD
 Ohio State Asst. Prof.
 Trotter, J, BSc PhD *Glas* Asst Prof.
 Battlett, N., BSc PhD *Durh.* Asst. Prof.
 Butler, J N, BSc *Rensselaer*, PhD *Harv*.
 Asst. Prof.

Kutney, J P, BSc *Alta*, MSc *Wis*,
 PhD *Wayne* Asst Prof
 Coope, J. A R., DPhil *Oxon*, MA Instr.
 Ogryzlo, E A, MSc *Manit*, PhD *McG* Instr
 McGee, D E, MSc *Alta*, PhD *Ill* Instr.
 Pincock, R. E, BS *Utah*, PhD *Harv* Instr
 Williams, P M, BSc *Washington & Lee*,
 PhD *Calif* (Inst. of Oceanog.) Instr.
 King, Ruth, MSc *Lond* Lectr.
 Muenster, L., BA Lectr
 Premuzic, E., MSc *Bum* Lectr.

Taylor, G. A., BSc *McM*, MSc
 Willis, C. J., MA PhD *Camb*
 13 Post-Doctoral Res Fellows

Classics

McGregor, M. F., PhD *Cmc*, MA,
 FRSCan Prof., Hd. of Dept
 Grant, W. L., AM *Harv.*, PhD *Tor*, BA Prof
 Guthrie, P. C. F., CD, BA *Manit*,
 MA PhD *Tor*, Assoc. Prof
 Rutledge, G. B., AM *Calif*, PhD *Harv.*,
 MA Assoc. Prof
 Eliot, W. J., MA *Tor*, Asst. Prof
 Weepie, T., MA EdB *Glas* Asst. Prof
 McLeod, W. F., BA *Tor*, AM *Harv.* Insti.
 Edinger, H. G., BA *Yale*, MA *Prin* Instr
 Logan, H. T., MC, BA *McG*, MA *Oxon*
 Sp. Lectr., Prof Emer.
 McLeod, Elizabeth, BA *Tor*, MA *Bryn*
Maur Lectr

Commerce, see below

Economics and Political Science

Young, J. H., MA *Qu*, PhD *Camb*
 Prof., Hd. of Dept.
 Crumb, J. A., BBA *Wash*, MS PhD *Calif*.
 (Econ.) Prof.
 Jamieson, S., MA *McG*, PhD *Calif*, BA
 (Econ.) Prof.
 Anderson, W. J., BSA, MSc *Sask*,
 PhD *Chc* (Agric Econ.) Prof
 Clark, R. M., AM PhD *Harv.*, BA BCom
 (Econ.) Prof.
 Scott, A. D., AM *Harv.*, PhD *Lond*, BCom
 BA (Econ.) Prof.
 Ronin, H. E., MSc(Econ) *Tartu*,
 PhD *Lond*, Assoc. Prof.
 Moore, A. M., BA *Qu*, AM *Chc*, Assoc. Prof.
 Laponce, J., Dipl *Inst. d'Et Pol.*, Paris,
 PhD *Calif*, Assoc. Prof.
 Holmes, R. A., MA *Sask*, PhD *Indiana*
 Asst. Prof.
 Stankiewicz, W. J., MA *St And*, PhD *Lond*,
 Asst. Prof.
 Langdon, F. C., AM *Harv.*, PhD *Calif*,
 Asst. Prof.
 Smiley, D. V., MEd *MA Alta*, PhD *North-*
western, Asst. Prof.
 Will, R. M., BA *W.Ont*, AM PhD *Duke*
 Asst. Prof.
 Richter, J. J., DrRerPol *Graz* Asst. Prof.
 Cairns, H. A. C., MA *Tor*, Instr
 McGuigan, G. F., MA *Tor*, Instr
 The President (Pol. Sci.) Hon Lectr
 Angus, H. F., BA *McG*, MA BCL *Oxon*,
 LLD *McG & Br. Col*, FRSCan
 Hon Lectr., Prof Emer.
 Robinson, I. F., AB *Wesleyan*, MA *Chc*,
 PhD Sp. Lectr

Education, Faculty of

Scarfe, N. V., MA *Lond* Prof
 Argue, K. F., BA *Alta*, MA *Oxon*, EdD *Col*
 Prof., Dir. of Summer Session

Lectr. Johnson, F. H., DPaed *Tor*, MA
 Lectr. Prof., Dir. of Elem. Teacher Educn.
 Gilliland, H. C., MA
 Hon Prof., Dir. of Teacher Educn.,
 Victoria Coll.
 McIntosh, J. R., BA MEd *Sask*, PhD *Col*
 Prof., Dir. of Secondary Teacher Educn.
 Broome, E. B., BEd MA
 Prof., Asst. to Dir. of Elem. Educn.
 Stein, H. L., MA *Manit*, PhD *Minn*
 Prof., Supervisor of Grad Studies
 Katz, J., BA MEd *Manit*, PhD *Chc* Prof
 Marquis, G. W., MA *Whitman*, PhD *Calif*.
 (Music) Prof.
 Smith, C. E., BSc *Lond*, MA DPaed *Tor*,
 LLD *Manit*, FBPs5 Prof., Dir. of Res
 Vermer, C., AM *William & Mary*, MA
 EdD *Col* Prof.
 Hallinbeck, W. C., BA *Occidental*,
 BD *San Francisco*, MA PhD *Col*.
 (Adult Educn.) Visiting Prof.
 Auld, W. H., EdM *Oregon State*, BA
 Assoc. Prof., Asst. Supervisor of Student
 Teaching
 Black, S. Assoc. Prof.
 Birkett, Miss Alice G., MA *Calif*, BA
 BEd Assoc. Prof.
 Boughton, R. C., MSc *Manit*, PhD *Minn*.
 Assoc. Prof.
 Boyles, Sadie M., MA
 Assoc. Prof., Asst. to Dir. of Secondary
 Educn.
 Brown, L. E., BPE MA *Oregon* Assoc. Prof.
 Cottingham, Mollie, MA Assoc. Prof.
 Covell, H. M., BA *Sask*, BEd *Manit*,
 EdD *Flor* Assoc. Prof.
 Davis, D. E., BA *Calif*, MMus *Northwestern*,
 DEd *Oregon* Assoc. Prof.
 Deyell, Edith M., BA *Qu*, MA *Col* Assoc. Prof.
 Dolmage, Grace, BA *Manit*,
 MEd *Northwestern* Assoc. Prof.
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 Gibbard, J. E., MA BEd Assoc. Prof.
 Hardwick, F. C., MA Assoc. Prof.
 Kilgour, A. Jean, MA Assoc. Prof.
 McGeachan, J., MA
 Assoc. Prof., Assoc. Dir. of Summer
 Session
 MacKay, Vera A., BA *Tor*, MS
 EdD *Indiana* Assoc. Prof.
 Ozard, E. G., BA *Wash*. Assoc. Prof.
 Penner, P. G., BA BEd *Sask*, MA *Wash*.
 Assoc. Prof.
 Shind, L. H., BSc *Sask*, BMus *Montr &*
Sask, EdD *Flor* Assoc. Prof.
 Smith, D. C., DEd *Calif*, BA BEd Assoc. Prof.
 Smith, R. N., EdD *Col*, MA PhD Assoc. Prof.
 Tomkins, G. S., BA BS *SyrG.Wms.*,
 MA *McG* Assoc. Prof.
 Truax, C. W., BA BEd
 Assoc. Prof., Supervisor of Student
 Teaching
 Young, J. T., MA BEd Assoc. Prof.
 Baxter, Edna, MA *Wash*, BA Asst. Prof.

Campbell, Mrs P. R., BEd <i>Sask</i> , MS PhD <i>Wis.</i>	Asst. Prof.	Parker, Ilsa, BA <i>Manit.</i>	Lectr.
Cannon, G. H., BA BEd MSc	Asst Prof	Renney, A. J., MS <i>Calif.</i> , PhD <i>Oregon</i> <i>State</i> , BSA	Lectr
Clingman, A. E., MMus <i>Drake</i> , MA DEd <i>Col.</i>	Asst. Prof	Schrodt, Barbara, MS <i>Oregon</i>	Lectr.
Ellis, J. F., BA	Asst Prof	Sinclair, Mrs N., BEd MA <i>Alta.</i>	Lectr
Gamble, F. E., BFA <i>Nebraska</i> , MA C U A, DEd <i>Col.</i>	Asst Prof	Stevenson, J.	Lectr
Hambleton, D. C., BEd <i>Sask</i> , MA <i>Col.</i>	Asst Prof	Sutherland, N., BA	Lectr.
Hartuck, W., BA	Asst Prof	Towell, A. S., MA	Lectr.
Healy, S. D., BFA <i>Mt All.</i> , MFA <i>Col.</i>	Asst Prof	Waldie, J.	Lectr
Lanning, W., BLS <i>Col.</i> , BA	Asst Prof	Whittle, H. D., BPHE <i>Tor.</i> , MS PhD <i>Oregon</i>	Lectr.
Lawson, D., BSS C G N. Y., MA DEd <i>Col.</i>	Asst Prof.	2 Teaching Assts	
Meredith, Kathleen L., BA <i>W Ont.</i>	Asst Prof	Also members of fac. representing other depts & Victoria Coll.	
Munro, B. C., BA BEd <i>Sask</i> , MEd PhD <i>Alta.</i>	Asst Prof		
McConnell, Ruth, MA	Asst Prof	Engineering, Chemical	
Macdonald, J. A. S.	Asst Prof	Forsyth, J. S., BSc <i>Glas</i> , PhD <i>Leeds</i> Prof, Hd. of Dept.	
McGann, J. D., MA <i>Conn</i> , ED <i>Boston</i>	Asst Prof	Cavers, S. D., PhD <i>Cal Tech</i> , MASC, FCIC	Assoc Prof
MacKenzie, Mrs Hilda M., BA	Asst Prof	Scott, D. S., MSc <i>Alta.</i> , PhD <i>Ill.</i>	Assoc Prof
McRae, Joyce, BEd	Asst Prof	Epstein, N., MEng <i>McG</i> , EngScd <i>N Y.</i>	Assoc Prof
Nalevkin, Shirley, BA <i>Sask</i> , BSc <i>McG</i> , MS <i>Mich.</i>	Asst Prof	Patterson, R., PhD <i>McG</i> , MASC (Pulp & Paper Technol.)	Hon. Lectr
Nevison, M., PhD <i>Minn.</i> , BA	Asst Prof	1 Res Assoc	
O'Connell, M. Sheila, BA	Asst Prof	Engineering, Civil	
Rajaratnam, Mrs N., BA <i>Lond</i> , PhD <i>Ill.</i>	Asst Prof	Muir, J. F., BSc <i>Manit.</i> , MEIC	
Roxburgh, Jean, BA BEd MA <i>Cal.</i>	Asst Prof	Finlay, A. H., MC, MSinCE <i>Ill.</i> , BASc	Prof, Hd. of Dept
Shopland, Stella, DipLabSc <i>Tor.</i> , MA <i>Wash.</i> , BA	Asst Prof	Hrennikoff, A., Grad <i>Inst Communication</i> <i>Eng Moscow</i> , ScD <i>M.I.T.</i> , MASC, MEIC	Prof
Smith, G. A.	Asst Prof.	Petrous, E. S., MSc <i>Iowa</i> , BASc	Prof
Trowsdale, G. C., BMus DEd <i>Tor.</i>	Asst Prof	Peebles, A., MSc <i>Iowa State Agric.</i> , BASc BA	Prof
Whitinger, B. R., BE <i>St Cloud</i>	Asst Prof.	Lipson, S. L., MS <i>Cal Tech</i> , BASc, MEIC	Prof
Barclay, L., BA	Instr.	Cherry, S., BSc(CE) <i>Manit.</i> , MS <i>Ill.</i> , PhD <i>Brist.</i> , MEIC	Assoc Prof
Brown, Margaret E., BEd	Instr	de Jong, S. H., MSc <i>Manit.</i> , MEIC	Assoc Prof
Devereaux, Mrs. Louise, BPE	Instr	Heslop, W. G., BASc <i>Tor.</i> , MEIC	Assoc Prof
Foster, M. I.	Instr.	Hookey, R. F., MSc PhD <i>Stan.</i> , BASc, MEIC	Assoc Prof.
Gornall, F., BA BEd	Instr.	Bell, H. R., DiplSurvey <i>Lond</i> , MScEng, BASc, MEIC	Asst Prof
Gulston, M., BA BEd <i>Sask.</i>	Instr.	Ruus, E., Grad <i>Talinn</i> , DrEng <i>T.H.</i> <i>Kaisruhe</i>	Asst. Prof.
Hammarstrom, Louise, BPE	Instr	Anderson, J. D., MS(CE) <i>Wash</i> , BASc	Asst Prof
Leduc, R. J., BEd <i>Alta.</i> , MS <i>Oregon</i>	Instr.	Nathan, N. D., BSc <i>Rand</i> , SM <i>M.I.T.</i>	Asst Prof.
Logan, W. J. P.	Instr		
McIntosh, D. J., BA	Instr	Engineering, Electrical	
Mitchell, J. R., BPE BEd	Instr	Noakes, F., BSc <i>Alta.</i> , MS PhD <i>Iowa State</i> <i>Agric</i> , MEIC	Prof, Hd. of Dept
Ruzer, Mrs. Dorothy, BA <i>Calif.</i> , MA <i>Central Wash. Coll.</i>	Instr.	Myers, D. M., BSc BE DScEng <i>Syd</i> , MIEAust, FIP	Prof
Seal, R. F.	Instr	Moore, A. D., MSc <i>Qu</i> , PhD <i>Stan</i>	Prof.
Vey, Mrs. Florence, BEd	Instr	Bohn, E. V., DrEngNat DiplMath <i>Gott.</i>	Assoc. Prof.
Black, Charlotte, BScHEC <i>Manit.</i> , AM <i>Col.</i>	Lectr	Bowers, F. K., MA <i>Camb.</i>	Assoc. Prof.
Goodwin, Mrs. H.	Lectr	Kersey, L. R., BASc	Assoc. Prof
Gouldston, Mrs. Alice	Lectr.		
Hallamore, Joyce, PhD <i>Munich</i> , MA	Lectr.		
Heywood, R. H., BA	Lectr.		
Lathwaite, A. B., CD, DipPE <i>Carnegie</i> <i>Phys. Trg. Coll.</i>	Lectr.		
Livesey, E., BA	Lectr.		
McGregor, M. F., PhD <i>Cinc.</i> , BA	Lectr.		
MacPherson, E., BA	Lectr		

Beddoes, M P, BSc *Glas.*, DIC,
PhD *Lond*
Szabiy, J. F., DiplEng DiplEcon DiplEduc
DrEcon *Bud*
Voss, W. A. G., BSc *Lond*
Clement, B. D., BSc
Pullinger, W. W., BSc
Scott, P., BSc
2 Demrs, 2 Res Assocs, 3 Res. Engineers

Engineering, Mechanical

Richmond, W. O., MS *Pitt*, BSc, MEIC
Prof, Hd of Dept
McIlroy, H. M., MSc *Qu.*
Wolfe, W., MSc *Case Sch. of Appl Sci.*,
BSc BA
Parkinson, G. V., MS PhD *Cal Tech*,
BSc Lectr in Aeron Engin, Assoc Prof
Brockley, C. A., PhD *Sheff.*, BA BSc
Cox, L., BSc
Lienhard, J. H., BS *Oregon State*, MS *Wash*,
PhD *Calif*
Young, J., BSc *Glas*, MS *Ill*
Wighton, J. L., MSE PhD *Mich*, BA
BSc
3 Demrs.

English

Daniels, J. R., PhD *Tor*, BA, FRSCan
Prof, Hd. of Dept
Akrigg, G. P. V., PhD *Calif*, MA
Andrew, G. C., BA *Dal*, MA *Oxon*.
Birney, A. E., MA PhD *Tor*, BA, FRSCan
Creighton, J. H., MA *Tor*.
Lewis, H. C., MA
Mornstn, R., AM PhD *Calif*, BA
Read, S. E., MA *McG*
Robbins, W., PhD *Tor*, MA
Wattens, R. E., MA *Tor*, PhD *Wrs*
Humphrey, Ruth, BA *Mt All*, MA *Oxon*
Assoc. Prof.
Smith, Mrs Marion B., MA *Tor*,
PhD *Penn*
Spaulding, J. G., AB *Pomona*, PhD *Calif*.
Assoc Prof

Steinberg, M. W., MA *Qu*, PhD *Tor*
Thompson, W. M., MA *Tor*, *McM* &
Oxon, DrPhil *Bres*
Thomson, W., MA *Glas*
Woodcock, G.
Baker, R. J., MA
Baxter, Edna L., AM *Wash*, BA
Clubb, R., BA *Kansas & Lond.*, PhD *Yale*
deBruyn, J., MA *Lond*, BA
Fredeman, W. E., BA *Hendrix*, MA
PhD *Oklahoma*
Gose, E. B., MA *Colorado*, PhD *Corn*
Hall, W. F., MA *Camb*, PhD *Johns H.*
Hopwood, G. V., MA PhD *Tor*, BA
Jordan, R. M., AB *Colorado*, MA PhD *Calif*.
Asst Prof.

MacKenzie, Mrs Mabel, MA PhD *Tor*.
Miller, C. W., BEd MA *Sask*, PhD *Wash*.
Piloto, A. E., MA *McG*, MLitt *Camb*.
Pinkus, P., PhD *Mich.*, BA *Tor*
Ross, Janet, BA *Mum*, PhD *Iowa*
Sawyer, A. E., BA PhD *Tor*
Stephens, D. G., MA *New Br*, PhD *Edm*
Tallman, W., BA PhD *Wash*
Wigod, J. D., AB *N Y*, AM PhD *Hav*

Aldritt, K., MA *Camb*
Beach, D. M., BA *Reed*, MA PhD *Can*
Hulcoop, J. F., BA *Lond*
Bernier, R. L., MA *Wash*.
Friedson, A. M., BA *Smpton*, MA
PhD *Iowa*
Mitchell, C. A., BA *Cinc*, MA *Wash*
Ross, I. S., MA *St And*, BLitt *Oven*,
PhD *Texas*
Stockholder, F. E., BA *C C N Y*
Tener, R. H., PhD *Lond*, MA
Yeomans, E., BA *Mt All*, MA *Tor*
Brooks, Mrs H., MA
Connaughty, G. W., BA BEd MA *Sask*
Doheny, J. R., MA *Wash*
Elliott, G. R., AM *Hav*, MA
Frazer, Frances, BA *McM*
Lawrence, J. C., MA
Lewis, Mrs Stella, MA
Lewis, J. C., BA *Yale*
Macnee, D., MA *Glas & Br Col*.
Marriage, Mrs S., BA *Lond*.
Morton, M. K., BA *Tor*, MA *Col*.
Nemser, Ruby, MA *McG*.
Newby, F. S., BA *Radlands*, MA *Calif*.
Savery, Mrs. Bannet, MA *McG*.
Tedford, Mrs I., MA *Wash*
Zalber, J., BA *Wis*, MA *Wash*.
6 Reps from Fac of Educn

Fine Arts

Bunning, B. C.
Cragg, R. C., MA PhD *Tor*
McNairn, I., BA *McM*
Ozard, E. G., BA *Wash*.
Black, S.
MacDonald, J. A. S.
Smith, G. A.
Robinson, Miss Orene, BSChEc *Alta*.
Thomas, L. A. J.
Gouldstone, Mrs Alice
Hart, W. S., MA *Calif*
Kato, S., MD *Tokyo*

Forestry

Allen, G. S., PhD *Calif*, MASC
(Silviculture) H. R. MacMillan Prof
Knapp, F. M., BSF *Syr*, MSF *Wash*.
Prof., Dir of Univ. Forest
Wellwood, R. W., MF PhD *Duke*, BASC Prof

Graffith, B. G., MF *Harv*, PhD *Wash*, MA
 Assoc Prof
 Haddock, P. G., BS PhD *Calif* Assoc Prof
 Ker, J. W., MF DFor *Yale*, BASc
 Assoc Prof, Assoc Dir of Univ Forest
 Smith, J. H. G., MF PhD *Yale*, BSF
 Assoc Prof.
 Graham, K., MSc *McG.*, PhD *Tor*, BA
 (For Entomol.) Prof
 Bier, J. E., BScF MA PhD *Tor*
 (For Pathol.) Prof
 Krajina, V., DSc(NatSc) *Prague* (Bot) Prof.
 Fensom, K. G., BScF *Tor*
 (Forest Prod.) Hon Lectr.
 MacQueen, I. C., BASc Lectr
 Szuklai, O., DiplForEng *Sopron* Lectr
 Kennedy, R. W., BS *N.Y. State*, MF Instr.
 Walters, J. MF Res Forester
 Tessier, J. P., BScF *New Br*, MF *Yale*
 Resident Forester in Ttg & Sp Lectr
 Orchard, C. D., MScF DSc *New Br* Sp Lectr
 Dixon, L. B. (Lumber Grading) Lectr
 13 Reps from other Facs

French, see Romance Studies

Geography

Robinson, J. L., BA *W Ont*, MA *Syr.*,
 PhD *Clark* Prof, Hd of Dept
 Mackay, J. R., BA *Clark*, MA *Boston*,
 PhD *Mont*, FRSCan (on leave) Prof
 Chapman, J. D., MA *Oxon*, PhD *Wash*
 Assoc Prof
 Farley, A. L., PhD *Wis*, MA Asst Prof
 Hooson, D. J. M., MA *Oxon*, PhD *Lond*
 Asst Prof
 Stager, J. K., BA *McM* Instr
 Mathews, W. H., PhD *Calif*, MASC,
 FGSA, FRSCan Sp Lectr
 Warren, H. V., BSc DPhil *Oxon*,
 BA BASc, FRSCan, FGSA Sp Lectr
 Scarfe, N. V., MA *Lond* Sp Lectr
 Wallis, J. H., BA Sp Lectr

Geology

Okulitch, V. J., PhD *McG*, MASC, FGSA,
 FRSCan
 (Paleontol & Stratig) R W Brock
 Prof, Hd of Dept
 Warren, H. V., BSc DPhil *Oxon*, BA BASc,
 FRSCan, FGSA (Mineral) Prof
 Mathews, W. H., PhD *Calif*, MASC,
 FGSA, FRSCan Prof
 White, W. H., PhD *Tor*, MASC, FGSA Prof
 Thompson, R. M., PhD *Tor*, MASC Assoc Prof
 McTaggart, K. C., MSc *Qu.*, PhD *Yale*,
 BA BASc Assoc Prof
 Best, R. V., DFC, PhD *Prin*, MASC Asst Prof
 Danner, W. R., MS PhD *Wash* Asst Prof
 Ross, J. V., ARCS, DIC, BSc PhD *Lond*
 Asst Prof
 Rouse, G., BA MSc PhD *McM.* Asst Prof
 Swanson, C. O., PhD *Wis.*, MASC, FGSA,
 FRSCan Hon. Prof

G.

Delavault, R. E., BLett L&Sc *DUParis*
 (Geochem) Res. Assoc.
 Cockbain, A. E., BSc PhD *Nott*
 (Geol Oceanog) Res Assoc.
 Williams, M. Y., BSc *Qu*, PhD *Yale*, FGSA,
 FRSCan
 Hon Curator of Museum, Prof Emer
 Mackay, J. R., BA *Clark*, MA *Boston*,
 PhD *Mont*, FRSCan, (on leave) Sp Lectr.
 Yole, R. W., BSc *New Br*, MA *Johns H* Lectr.

German

Hallamore, Joyce, PhD *Munich*, MA
 Prof, Hd of Dept.
 Borden, C. E., MA PhD *Calif* Prof.
 Krugel, F. A., AB *Albion*, MA PhD *Minn*
 Asst Prof
 McNeely, J. A., MA PhD *Calif*, BA Asst. Prof
 Batta, M. S., BA *Lond*, DPhil *Freib.* Asst. Prof.
 Goetz, Marketa C., MA PhD *Tor*. Asst Prof
 Anderson, A. R., BA *Tor*. Instr.
 Loeb, E., MA *Penn* Instr.
 Beaumont, R., MA *Calif*, BA Lectr
 Hlawati, Mrs Elisabeth Lectr
 Taylor, Mrs Pauline, MA Lectr
 Sorensen, O. M., MA *Stan.* Lectr.
 Runge, Butta, BA Lectr

Graduate Studies

Shrum, G. M., OBE, ED, MM, MA
 PhD *Tor*, Hon DSc, FRSCan Prof
 Soward, F. H., BA *Tor*, BLatt *Oxon*,
 FRSCan Prof, Assoc Dean
 Painall, J. E. A., MA *Tor*, BA BED
 Sec & Registrar
 Membership in Fac hds. and fac reps of
 depts. offering grad work

History

Soward, F. H., BA *Tor*, BLatt *Oxon*, FRSCan
 Prof., Dir of Internat Studies, Hd of
 Dept
 Ormsby, Margaret A., PhD *Bryn Mawr*, MA
 Prof
 Ho, Ping-ti, BA *Natnl TsingHua*,
 PhD *Col* Prof
 Davies, G. O. B., MA *Gamb* Prof
 Norris, J. M., MA PhD *Northwestern* Assoc Prof
 Neatby, H. B., BA *Sask*, MA *Oxon*,
 PhD *Tor* Asst Prof
 Hanrahan, Rev. T. J., MA *Tor*, MSL *Greg*
 (on leave) Asst Prof.
 Conway, J. S., MA PhD *Camb* Asst. Prof
 Boshier, J. F., Dipl'tEtSup *Paris*,
 PhD *Lond*, BA Asst Prof.
 Harnetty, P., AM PhD *Harv.*, BA Asst Prof
 Frang, Margaret E., MA *Tor*, BA *Manit*
 Asst Prof
 Cooke, A. C., BA *Manit*, MA *Oxon*
 Emer Prof., Sp Lectr
 Lawrence, J. C., MA Lectr
 Poupore, G., MA *Tor* Lectr
 Sheehan, Rev M., MA *Tor* Lectr
 3 Reps from Fac. of Educn

Home Economics

- Black, Charlotte S., BSc(HEC) *Manit.*,
AM Col Prof, Dir of Sch
Holder, Mary, BSc(HEC) *Mt All.*,
MS *Mich State* Assoc Prof.
MacFarlane, Margaret, BSc(HEC) *Alta.*,
MS Col Assoc Prof.
Blair, Ruth, MS *Corn.*, BHE
Asst-Prof, Dir of Food Services
Bracher, Winifred J., BSc(HEC) *McG.*,
AM Col. Asst. Prof
Smead, Elizabeth, BSc(HEC) *Acad.*,
MSc *Manit.*, PhD *Ill.* Asst Prof
McEachran, Ailsa, BHE Instr.
Flynn, Yvonne, MA *Tor.* Instr
Clara, Rosina, BSc *W. Virginia*,
MA *Wash State* Instr
3 Hon Lectrs

International Studies

- Soward, F. H., BA *Tor.*, BLitt *Oxon.*,
FRSCan Prof, Dir
Davies, G. O. B., MA *Camb.* Prof.
Conway, J. S., MA *PhD Camb.* Asst Prof.

Italian, see Romance Studies

Law

- Curtis, G. F., QC, LLB *Sask.*, BA BCL
Oxon., Hon LLD *Dal & Sask.*, Hon.
DCL *New Br.* Prof
MacIntyre, M. M., BA *Mt All.*, LLM
SJD *Harv.* Prof.
Bourne, C. B., BA *Tor.*, LLB *Camb.* Prof.
Carrothers, A. W. R., LLM *Harv.*, BA LLB Prof.
Todd, E. C. E., LLM *Manit.* Assoc. Prof.
Herbert, R. G., DFC, BA LLB Asst. Prof.
Beck, S. M., LLM *Yale*, BA LLB Asst Prof.
Plackett, J. M., LLB *Birm & Camb.* Asst Prof
The President Lectr.
Branca, A., QC Lectr.
Brown, D. McK., BCom Lectr.
Beckett, K. M., BA Lectr.
Carlyle, W. M., BCom *Qu.*, LLB Lectr.
Carr, M. C., LLB *Lond.* Lectr.
Clark, D. M. Lectr.
Ellis, T. E. H., QC, BA Lectr.
Huberman, D. M. S., LLM *Harv.*, BA
LLB Lectr.
Dryer, V. L., QC, BA Lectr.
Ladner, L. J., QC, BA LLB *Tor.* Lectr.
Lyssyk, K., LLB *Sask.*, BCL *Oxon.*, BA Lectr.
McFarlane, M. M., QC, BA Lectr.
McClean, A. J., LLB *Belf.* Lectr.
Schmitt, G. R., BA LLB *Sask.*, LLM *Harv.* Lectr.
Smith, W. K., BA *Manit.*, LLB Lectr.
Tuck, W. D. C., LLB Lectr.
Ruttan, Hon Mr. Justice, MA BCL *Oxon.*,
BA Lectr.
Priestly, Diana M., MLL *Wash.*, BA LLB
Lectr., Law Librarian
Watts, A., AFC, ED, BCom Lectr.

Librarianship

- Rothstein, S., BLS *Calif.*, PhD *Ill.*, MA
Prof, Dir of Sch
Vainstein, Rose, BA *Miami*, BLS *W Reserve*,
MS *Ill.* Assoc Prof
Hamilton, R. H., BA BLS *McG.* Asst Prof

Mathematics

- James, R. D., PhD *Chic.*, MA, FRSCan
Prof, Hd. of Dept.
Gage, W. H., MA Hon LLD
Jennings, S. A., MA PhD *Tor.* Prof
Murdoch, D. C., PhD *Tor.*, MA Prof.
Derry, D., BA *Tor.*, DPhil *Gott.*, FRSCan Prof
Leimans, E., MagMath *Riga*,
DrRerNat *Hamburg* Prof
Moys, B. N., PhD *Harv.*, MA Prof
Hull, T. E., MA PhD *Tor.* Prof.
Simons, W. H., PhD *Calif.*, MA Assoc. Prof
Nash, W., BA *Puget Sound*, MA PhD *Calif.*
Marcus, M. D., AB PhD *Calif.* Assoc Prof
Divinsky, N. J., BSc *Manit.*, MSc PhD *Chic.* Assoc Prof
Thurston, H. A., BA PhD *Camb.* Assoc Prof
Benedicty, M., DrMaths *LibDoc Rome* Assoc. Prof
Sion, M., MS *N Y.*, PhD *Calif.* Assoc Prof.
Barclay, May L., MA Asst Prof.
Bullen, P. S., MSc *Natal*, PhD *Camb.* Asst Prof
Christan, R. R., BS *MA PhD Yale* Asst Prof
Chu, Han, BS *Hupsh*, MS *Tulane*,
PhD *Penn.* Asst Prof
Clark, C. W., PhD *Wash.*, BA Asst Prof
Kobayashi, S., BS *Tokyo*, PhD *Wash.* Asst Prof
Melzak, Z. A., MSc *McG.*, PhD *M I T* Asst Prof.
Ono, Takashi, DSc *Nagawa* Asst Prof.
Restrepo, R. A., PhD *Cal.Tech.*,
BA *Lehigh* Asst Prof
Swanson, C. A., PhD *Cal Tech.*, MA Asst Prof.
Froese, Charlotte, PhD *Camb.*, MA Asst Prof
Ree, R., BA *Seoul*, PhD Asst Prof.
Macskasy, E., CandSc *Bud* Asst Prof
Bressler, D. W., MA PhD *Calif.* Asst Prof.
Whittaker, J. V., PhD *Calif.* Asst Prof.
Cayford, A. H., MA *Calif.* Instr.
MacPherson, E., MA Instr.
Rearick, D. F., BS *Florida*, MA *Adelphi*,
PhD *Cal.Tech.* Instr.
Schwartz, Lorraine, PhD *Calif.* Instr
Thompson, R. C., PhD *Cal Tech.*, MA Instr.
Buchanan, Mrs Melba, MA Lectr
Dempster, H., MA Lectr
Deuel, P. D., Jr., MA *Calif.* Lectr.
Elliott, K. C., BA *Hawaii*, MA *Calif.* Lectr.
Newberry, BA *Camb & Lond.*, MA Lectr.
Parnall, J. E. A., MA *Tor.*, BA *BEd* Lectr
Scott-Thomas, J. F., MA *Tor* Lectr.
Smith, Mrs C. E., PhD *Tor* Lectr
Struk, Ruth R., MA *Ill.*, PhD *N Y* Lectr
Stein, H. L., MA *Manit.*, PhD *Minn* Hon. Lectr.

x Post-Doctoral Res. Fellow

Medicine, see below**Mining and Metallurgy**

- Forward, F A., BASC *Tor*, FIM, FCIC
 Prof, Hd of Dept
 Crouch, L. G R., BSc *Melb*, MSc *Utah*
 (Min Engin.) Prof.
 Howard, H. M., BASC *Tor*
 (Mineral Dressing) Prof
 Armstrong, W M., BASC *Tor* (Metall) Prof.
 Samus, C. S., MSc *Manit*, PhD *Lond.*
 (Metall) Prof
 Lund, J A. H., PhD *Bum*, BASC Asst Prof
 Peters, E., MSc PhD Asst Prof
 Tegtsoonian, E., BASC MA PhD *Tor*.
 Asst Prof.
 Armstrong, Mrs. A. Margaret, MA *Tor* Lectr
 Halpern, J., BSc PhD *McG* Hon. Lectr
 3 Res Assocs.

Music

- Marquis, G W., MA *Whitman*, PhD *S Calif*
 Prof., Hd of Dept
 Adaskin, H
 Prof
 Slind, L. H., BSc *Sask.*, BMus *Montr &*
Sask, EdD *Florida* Assoc. Prof
 Gubbard, D C., MA *Wash* Assoc Prof
 Morris, R B., MM *U.T.S.*,
 DrVocalPed *Indiana* Assoc Prof
 Clingman, A E., MMus *Drake*, MA
 EdB *Col* Asst. Prof.
 Davis, D E., MMus *Northwestern*,
 DEEd *Oregon* Asst. Prof
 Gamble, F., MA *C U A*, EdD *Col* Asst Prof
 Pitz, H K., MM *Northwestern* Asst Prof
 Proctor, G A., BA *McM*, MM
 PhD *Eastman* Asst Prof
 Weisgarber, E., MM *Roch* Asst. Prof
 Adams, Mrs. Jean C. Instr
 Huberman, Mrs. Barbara P Instr.
 Hultberg, C., MS *Ill*, MM *Arizona* Instr
 14 Instrumental Lectrs.

Nursing

- Mallory, H. Evelyn, BSc AM *Col*.
 Prof, Dir of Sch.
 Morrison, Ruth, BS *Minn*, AM *Col* Assoc Prof
 Capelle, Pauline, AM *Chic*, BA BASC Asst. Prof
 McCann, Elizabeth K., MSN *Wayne*, BA
 BASC Asst Prof.
 Duncan, Margaret W., MS *Chic.*, BA BASC
 Asst Prof
 Street, Margaret M., BA *Manit.* Asst Prof
 Campbell, Margaret A., MS *Western Reserve*,
 BA BASC Instr
 Cawston, Helen E., BSN Instr
 Speirs, Margaret E., BSN Instr
 Neylan, Mrs. Margaret, BN *McG* Instr.
 Baumgart, Alice, BSN Instr
 Pallister, Ruth M., BSN Instr
 Sugimoto, Tomiko, BSN Instr
 Walton, Elizabeth A., BSN Instr

- Morison, Joan D., MA *Col*, BASC
 Instr., Nursing Supervisor, Child Health
 Programme
 8 Lectrs., 23 Clin Instis, 57 Field Supervisors

Pharmacy

- Matthews, A W., MSc *Alta*, PhD *Flor* Prof
 Morrison, F A., MBE, BSP *Sask*,
 MSc *Maryland* Assoc Prof, Asst. to Dean
 Halliday, J E., BSP *Sask*, MS *Purdue*,
 PhD *Wash*
 (Mat Med & Pharmacol) Assoc Prof
 Groves, G A., BSc(Pharm), MSc *Alta*,
 PhD *Wis* Assoc. Prof
 Brown, T. H., MS *Wash.*, BSP
 (Pharm Chem) Asst Prof
 Goodeve, A. M., BSP *Sask*, MScPhm *Tor.*,
 PhD *Purdue* (Pharmacog) Asst Prof
 Moir, J G., MS *Mich*, BSP Instr
 Babb, N S., BSP Sp Lectr
 8 Reps from other Facs.

Philosophy

- Savery, B., AB *Wash*, AM PhD *Harv.*
 Prof., Hd of Dept
 Remnant, P., MA PhD *Camb.* Assoc Prof
 Stroll, A., MA PhD *Calif.* Assoc Prof
 Brown, D G., MA DPhil *Oxon.* Asst Prof
 Mallins, W J., MA PhD *Calif* Asst Prof
 Rowan, R J., MA PhD *Calif* Asst Prof
 Alleh, E B., MA *Tor*, MSc *Pontif Inst.*,
 Tor, PhD Instr
 Deuel, P., MA *Calif* Lectr

Physical Education and Recreation

- Osborne, R. F., BA BEd Prof, Dir of Sch
 Penney, Miss Marian, BA *Tor.*, AM *Texas*
State Coll. for Women Assoc Prof
 Whittle, H. D., BPHE *Tor*, MS PhD *Oregon*
 Assoc Prof
 Eckert, Helen, MEd *Alta* Asst Prof
 Hindmarch, R G., MS *Oregon*, BPE Asst Prof
 Laithwaite, A B., CD, DipPhysEd
Carnegie Phys Tg Coll Asst Prof
 Mullins, F. M., MSc *Wash State* Asst. Prof
 Pomfret, J., BA (Health & P.E.) *Wash*
 Asst Prof
 Schrodt, Barbara, MS *Oregon*, BPE Asst Prof
 Vincent, G. Lectr
 Smith, J H G., MF PhD *Yale*, BSF Lectr
 Gnuip, F. T., BS(PE) *Manhattan Coll.* Instr
 Morford, W. R., MPE Instr
 Phillips, R J. Instr, Athletic Dir
 Read, F Hon. Lectr.
 8 Reps from Fac of Educn

Physics

- Volkoff, G M., MBE, PhD *Calif* MA
 Hon. DSc, FRSCan Prof, Hd of Dept
 Crooker, A M., BA *McM.*, MA PhD *Tor.* Prof
 Mann, K C., OBE, BA *Sask*, MA PhD *Tor.* Prof

Warren, J. B., DIC, BSc PhD *Lond.*, FIP, FRSCan Prof.
 Burgess, R. E., BSc *Lond* Prof.
 Pickard, G. L., MBE, MA DPhil *Oxon* Ptof.
 Opechowski, W., MagFil *Warsaw*, FRSCan Prof.
 Jacobs, J. A., MA PhD *Lond.*, FRSCan Prof.
 (Geophys.) Prof.
 Kaempffer, F. A., DiplIng DrRerNat *Gott.* Prof.
 Stewart, R. W., MSc *Que.*, PhD *Camb.* Assoc Prof.
 Brown, J. B., DPhil *Oxon.*, BA Assoc Prof.
 Russell, R. D., MA PhD *Tor.* Assoc Prof.
 Griffiths, C. M., BAsC *Tor.*, MA PhD Assoc Prof.
 Bloom, M., MSc *McG.*, PhD *Ill.* Assoc Prof.
 Barne, R., BSc PhD *Glas* Assoc Prof.
 Barnard, A. J., MSc *Rhodes*, PhD *Glas.* Asst. Prof.
 Burling, R. W., MSc *N.Z.*, PhD *Lond* Asst. Prof.
 Curzon, F. L., DIC, PhD *Lond* Asst. Prof.
 Livesey, D. L., BA PhD *Camb* Asst. Prof.
 de Sobrino, L., MSc ScD *M.I.T.* Asst. Prof.
 Erdman, K. L., BA MSc *Alta*, PhD Asst. Prof.
 Grindlay, J., BSc *Glas.*, DPhil *Oxon* Asst. Prof.
 Nodwell, R., BSc *Sask*, MAsC PhD Asst. Prof.
 Rastall, P., BSc PhD *Mane.* Asst. Prof.
 Slawson, W. F., BS *Mich*, PhD *Utah* Asst. Prof.
 White, B. L., BSc *N.Z.*, DIC Asst. Prof.
 PhD *Lond.* Asst. Prof.
 Jones, G., BA MSc PhD Asst. Prof.
 Dalby, F. W., BSc *Alta.* Asst. Prof.
 PhD *Ohio State*, MA Asst. Prof.
 Churchill, R. J., BEng *N.S.T.C.*, MSc *Birm.*, PhD *Lid* Asst. Prof.
 Kunz, F. D., MS *Oregon State*, PhD *Wash* Asst. Prof.
 Barton, N., MA Instr.
 Crutchlow, P. R., BA DPhil *Oxon* Instr.
 Giles, J. C., BSc *Sheff.*, PhD *Exe* Instr.
 Howard, R., BSc PhD *Nott* Instr.
 Viet, J. J., BSc PhD *Lond.*, MSc *Birm.* Instr.
 Sheinin, S. S., BAsC MA PhD *Tor.* Lectr.
 Batho, H. F., BA *McM.*, SM PhD *Chic* Hon. Lectr.
 Richard, J. W., BAsC *Tor.*, PhD *Notre Dame* Lectr.
 George, S., BSc *Trav.*, MSc *Saug.* Lectr.
 Clark, R. J., BA *McG.*, PhD *Camb.* †Lectr.
 1 Demr., 1 Res. Fellow, 3 Post-Doctoral Fellows

Plant Science

Brink, V. C., PhD *Wisc.*, MSA (Agron) Prof., Chairman of Div.
 Harris, G. H., MS *Oregon State*, PhD *Calif.*, BSA, FCIC (Hort.) Prof.
 Hornby, C. A., PhD *Corn.*, MSA (Hort.) Assoc. Prof.
 Renney, A. J., MS *Calif.*, PhD *Oregon State*, BSA (Agron.) Assoc. Prof.
 Neill, J. W., MC, BSA *Tor.*, PhD *Oregon State* (Hort.) Assoc. Prof., Dir. of Landscaping

MacLean, N. A., BS PhD *Wash. State* Asst. Prof.
 Ormrod, D., PhD *Calif.*, BSA Asst. Prof.
 Fitzpatrick, R. E., BSA *McG.*, PhD *Tor.* Hon. Lectr.
 Burns, W. T., BSA MSc *Sask.* Hon. Lectr.
 Clarke, M. F., PhD *Penn.*, MSA *Sask* Hon. Lectr.
 Strachan, C. C., PhD *Mass.*, BSA Hon. Lectr.
 Willis, T. G., MSA Hon. Lectr.

Political Science, see Econ. and Pol. Sci.

Poultry Science

Biely, J., MS *Kansas State Agric.*, MSA Ptof., Chairman of Dept.
 Barr, T. R. B., BSc *Edin.*, MVSc *Tor.*, PhD *Ill.* Instr.
 March, Mrs. Beryl E., BA Sp Asst., Instr.
 Ellis, H. W., BSA Sp Asst.
 Tarr, H. L. A., PhD *McG. & Camb.*, MSA Hon. Lectr.

Psychology

Chant, S. N. F., OBE, MA *Tor.*, Hon. LLD Prof., Hd. of Dept.
 Signon, E., BA *Alta*, MA PhD *Tor.* Prof.
 Belyea, E. S. W., MA *Tor.* Assoc. Prof.
 MacKay, D. C. G., MA *Que.*, PhD *Stan.* Assoc. Prof.
 Kenny, D., PhD *Wash.*, MA Assoc. Prof.
 Fraser, D. C., BSc *Glas.*, MA PhD *Edin.*, MSc *Camb.* Asst. Prof.
 Potashin, Reva, MA PhD *Tor.* Asst. Prof.
 Sampson, D. G., MA PhD *Tor.* Asst. Prof.
 Read, W. H., BA *W. Ont.*, MA *Tor.*, PhD *Mich.* Asst. Prof.
 Cox, A. E., MA *Tor.*, BA Lectr.
 Shitran, A. F., MA Lectr.
 Bryenton, G. A. M., MA *Tor.*, BA Lectr.
 Nuttall, J. C., BA *Bed. Belf.* Lectr.
 Ryan, J. E. B., MA PhD *Tor.*, BA Lectr.

Religious Studies

Nicholls, W., MA *Camb* Prof.
 Carr, H., BA *Tor.*, Hon. LLD *Sask.*, Assum. & Br. Col. Hon. Lectr.
 Richardson, J. I., BA BD *McM.*, STM *U.T.S. (N.Y.)* Hon. Lectr.
 Fawcett, S. V., BA BD *Alta.*, ThD *Pacific Sch. of Religion* Hon. Lectr.

Romance Studies

Anderson, J. G., BA *Manit.*, AM PhD *Col.* (French) Prof., Hd. of Dept.
 Dallas, Dorothy, DU *Paris*, MA (French) Prof.
 Gregg, R. J., BA *Belf.* (French) Assoc. Prof.
 Jeffels, R. R., BA *Bed. Alta.*, MA *Camb.* (French) Assoc. Prof.

- Livermore, H V, BA *Camb*
(on leave) (Spanish) Assoc Prof
Tougas, G R, BA *Alta*, MA *McG*,
PhD *Stan*. (French) Assoc Prof
Robert, P R, MA PhD *Calif*, BA
(French) Assoc Prof
Bongie, L L, DU*Paris*, BA
(French) Asst Prof
Bisale, Katherine, DU*Paris*, MA
(French) Asst Prof
Bursill-Hall, G. L., MA *Camb*, PhD *Lond*
(French) Asst Prof
Giese, Rachel, MA PhD *Wis*
(Italian & French) Asst Prof
Haiden, A R, BA *Tor*, MA *Col.*,
PhD *N Carolina* (French) Asst Prof
Kobbervig, K I, PhD *Wash*
(Spanish & Italian) Asst Prof.
McDonald, J A, MA (Spanish) Asst Prof
Niedersauer, D J, MA *Calif* Asst Prof
Weinberg, K, MA *Trin Coll Hartford*,
PhD *Yale* (French) Asst Prof.
Bird, E A, DU*Paris*, BA (French) Instr
Bertoli, T, BA *W Ont.*, MA (Spanish) Instr
Fleury, F d'A, LèsL *Paris*, MA *Camb*
(French) Instr
Knutson, H C, MA *Minn* (French) Instr
Primeau, Marguerite A, MA *Alta*
(French) Instr
Trell, C, MA *Laval*, BA (French) Instr
Bresky, D, LLD *Prague*, MA *Wash*
(French) Instr
Bird, Mrs Genevieve, LèsL *Paris*,
MA *Brist* (French) Lectr
Davison, Mrs Emilia (Spanish) Lectr
Ciccone, Mrs Stephanie, DChem *Florence*,
MSc (Italian) Lectr
Coope, Mrs Renée, LèsL *Paris*, MA
(French) Lectr.
Knutson, Mrs Louise, MA *Denver*
(French & Spanish) Lectr
Luethy, I C. E, MA *Calif*. (French) Lectr.
Toplak, Mrs. Mary A., BA *Bud*
(French) Lectr

Slavonic Studies

- St. Clair-Sobell, J O, MA *Meib*, PhD *Graz*
Prof, Hd of Dept
Ronimois, H E, MSc(Econ) *Tartu*,
PhD *Lond* Assoc Prof
Wainman, A W, MA *Oxon* Assoc Prof
Bryner, C, AB *Stan*, PhD *Prague* Assoc Prof
Hooson, D J. M., MA *Oxon*, PhD *Lond*
Asst. Prof
Pech, S. Z., MA *Alta*, PhD *Colorado* Asst Prof
Carlsen, Irma M, MA Asst Prof
Rose, W J, BA *Manit*, MA *Oxon*, PhD
Cracow, Hon. LLD, FRHistS,
FRSCan Hon Lectr, Prof Emer.
Halpert-Scanderberg, T., StattDipl *Leip*.
Sp Lectr.
Cheney, G. A., BA *Wash*. Instr
Dane, M M, BA *Wash*, MA *Harc* Instr
Hershemin, A P, MA Instr

- Revutsky, V., MA *Tor*. Instr.
Rukalski, Z., LèsL *Paris*, PhD *Camb* Instr.
Barbashoff, V I †Lectr

Social Work

- Dixon, W G, AM *Chic*, BA Prof, Dir of Sch
Marsh, L. C., BSc(Econ) *Lond*, MA
PhD *McG* Prof, Dir. of Res
McCrae, Mrs Helen, BA *Tor.*, MSW Prof.
Cunliffe, Muriel A., MSS *Smith*, BA Assoc. Prof
Furness, Anne, BA *McG.*, MSW
Assoc Prof, Dir. of *Field Work*
Fornataro, J. V., BA BSW *Tor.* Asst Prof.
Marriage, A, MA *Lond.* Asst Prof.
McCann, C. W., BA *San Diego*,
DSW *Calif.* Asst. Prof.
McCubbin, Frances A., BA MSW Asst. Prof.
Tadych, Mrs Mary, BA *Manc.*, MSW
Asst. Prof.
Wheeler, M., BA *Lond*,
CertSocSc&Admin *L.S.E.*, MSW Asst Prof.
Fowler, D., BA BSW Instr.
Bradley, Eleanor J, CertSW *Smith*
Instr, Soc Work Supervisor, Child
Health Programme
Pepper, G W., BA *Alta.*, MSW Instr.
3 Lectrs.†, 1 Hon. Lectr, 2 Field-Work Instrs.†

Soil Science

- Rowles, C A., MSc *Sask*, PhD *Minn*.
Prof., Chairman of Dept.
Basaraba, J, MSA *Tor*, PhD *Rutgs*: Asst. Prof
Laird, D G, BSA *Tor*, MS PhD *Wis*
Prof. Emer., Sp. Lectr

Spanish, see Romance Studies

Theatre

- Soule, D E, BA *Yale*, MA *Wis.*,
PhD *Stan* Asst Prof
Brockington, J, BA Asst. Prof
Young, N. Lectr., Tech Dir.
Stevenson, Jamie Instr.

Zoology

- Cowan, I. McT., PhD *Calif.*, BA, FRSCan
Prof, Hd of Dept.
Hoar, W. S., BA *New Br.*, MA *W Ont.*,
PhD *Boston*, FRSCan
(Zool & Fisheries) Prof
Adams, J. R., MSc PhD *McG.* Prof
Chitty, D H., BA *Tor*, DPhil *Oxon*. Prof.
Graham, K., MSc *McG.*, PhD *Tor*, BA
(Forest Entomol) Prof.
Larkin, P. A., MA *Sask.*, DPhil *Oxon*.
Prof, Dir, Inst. of Fisheries
Ford, P, BSc PhD *Lond*, FLS Assoc. Prof.
Udvardy, M. D. F, PhD *Debrece* Assoc. Prof
Dehnel, P. A., MA PhD *Calif.* Assoc. Prof.
Finnegan, C. V., BA *Bates*, MS PhD *Notre*
Dame Assoc. Prof.

Band, R. N., BA MS *San Francisco*,
PhD *Calif* Assoc Prof.
Bary, B. McK., MSc PhD *N Z*
(Biology, Oceanog) Assoc. Prof.
Bendell, J. F., BA *Tor*, PhD Assoc Prof
Lindsey, C. C., BA *Tor*, PhD *Camb.*,
MA Assoc. Prof., Curator of Fishes
Wilmovsky, N. J., PhD *Mich* Assoc. Prof
Briggs, J. C., BS *Oregon State*, MA
PhD *Stan* Asst Prof
Holmes, W. N., MSc PhD *Law* Asst. Prof.
Scudder, G. G. E., BSc *Wales*,
DPhil *Oxon.* Asst Prof.
Band, R. N., BA MS PhD *Calif* Insti.
Jackson, Mary, BA *Tor*, MA Instr.
Redlich, Aline, MA Instr.
Arai, Mary, BSc *New Br.*, MA *Tor* Lectr.
Fish, Elaine, BSc *McG.* Lectr.
Matchett, Rosemary, MA *Edin* Lectr.
Maxwell, B., BA *Alta*, PhD *N Z*, MA Lectr.
Northcote, T. G., MA PhD Lectr.
Vickers, Mary, BA *Tor* Lectr.
Tarr, H. L. A., PhD *McG & Camb.*, MSA Hon Lectr.
Stevenson, G. Beth, MA Lectr.
Clemens, W. A., MA *Tor*, PhD *Corn.*,
FRSCan Prof Emer, Sp Res Assoc
Spencer, G. J., BSA *Tor*, MSc *Ill* Prof Emer, Sp Lectr
2 Post-Doctoral Fellows, 2 Res Assocs

COMMERCE AND BUSINESS ADMINISTRATION

[* = also member of staff of diploma division]

Perry, G. N., MPA MA PhD *Harv.*, BA *Prof.
Gourlay, C. C., MCom *Tor*, BCom *Prof, Asst Dean

Accounting

Beedle, A., BCom *Lond*, CA
*Assoc Prof, Chairman of Div
Mitchell, C. L., BCom *Tor*, CA *Assoc Prof
Burke, B. E., MA *Wash*, BCom *Assoc Prof.
Blaine, R. E., BCom, CA Asst Prof
Blazouske, D., BA BCom *Alta*, CA
(on leave) *Asst Prof
Robb, J. F., BS *Oregon*, MBA *Wash* Asst Prof
Baxter, A., BCom, CA Instr.
Heaver, T. D., BA *Oxon* Instr.
McDonald, D. L., MBA *Calif*, BCom,
CA Instr.

Estate Management

White, P. H., MSc(EstMan) *Lond.*
Prof, Chairman of Div
Lysyk, K. M., BA *McG*, LLB *Sask*,
BCL *Oxon* (Law) Hon. Lectr

Finance

Wong, L. J. G., MBA *Calif*, BCom
*Prof, Chairman of Div

Perry, G. N., MPA MA PhD *Harv.*, BA *Prof
White, P. H., BSc MSc(EstMan) *Lond* *Prof
Gourlay, C. C., MCom *Tor*, BCom *Prof
Clark, R. M., AM PhD *Harv.*, BA BCom
(Econ) Assoc Prof
Loffmark, R. R., CA, BA *Tor*, MBA *Penn*
Assoc Prof
Quinn, D. G., MA *Alta*, AM *Prim.* Asst Prof
Roper, E. C., BSc *Alta*, MBA Lectr

Industrial Administration

Wilkinson, H. C., MBA *Wash*, BCom
*Assoc Prof, Chairman of Div.
Hall, N. A., MBA *Calif*, DBA *Harv.*,
BCom Asst Prof
Ard, D. C., BSc *N Carolina*, BCom Asst Prof
Crosse, J. A., MA *Camb*, MSIE *Purdue*
Asst Prof

Marketing

Warren, J. B., BA *Wash*, MBA *Calif*
Assoc Prof, Chairman of Div.
Oberg, S. M., MBA *Wash*, BCom *Assoc Prof
Perkett, W. O., BS *Oregon*, MBA *Wash*
Asst Prof
Robb, J. F., BSc *Oregon State*,
MBA *Wash* Asst Prof
Chapman, G. J., BS BA *Missouri*, DSC
DBA *Indiana* Hon Lectr
Sommers, M., MBA *Northwestern*, BCom Lectr

Policy and Administration

MacPhee, E. D., MM, BEd MA *Edin.*,
Hon LLD *Alta & Br Col*
*Prof, Chairman of Div
Gourlay, C. C., MCom *Tor*, BCom Prof
Loffmark, R. R., BA *Tor*, MBA *Penn.*,
CA (Comm Law) Assoc. Prof
Mahoney, R. A., BA *Mam.*, MSc *Pu due*
Hon. Lectr.

Teacher Education (Commercial)

Heywood, R. H., MA
*Assoc Prof, Chairman of Div.

Transportation and Utilities

Hughes, W., BSc(Econ) *Lond*, MBA *Indiana*
Asst Prof, Chairman of Div
Heaver, T. D., BA *Oxon*, MA *Indiana* Instr
5 Lectrs from other Facs

Diploma Division

Members of staff indicated by asterisk, and hon.
lectrs and members of fac from other depts.

MEDICINE

McCreary, J. F., MD *Tor*, FRCPCan Prof
Mather, J. M., MD DPH *Tor*.
Prof, Asst. Dean

Anatomy

- Friedman, S M, BA MD CM MSc
PhD *McG* Prof, Hd of Dept
Constantinides, P, MD *Vienna*, PhD *Montr* Prof
Friedman, Mrs Constance L, MSc
PhD *McG* Res Assoc. Prof
Scheerer, H F, MD *Graz* Assoc Prof
Miller, S., MSc MD CM *McG* Assoc Prof.
(Radio-Anat) †Cln. Asst. Prof.
Sreter, F A., MD PhD DiplVetSc
MSA *Bud* Asst Prof
Hincke, J A, MD Asst Prof
Webber, W A, MD Asst Prof
Johnstone, F R C, MB ChB *Edn*,
FRCSEd †Lectr
Radcliffe, R W, MD CM *Qu*, MA Lectr
Teaching Fellow

Biochemistry

- Darrach, M, PhD *Tor*, MA Prof, Hd of Dept.
Beer, C T, DPhil *Oxon*, FRIC Assoc. Prof
Polgine, W J, PhD *Ohio State*, MA Assoc Prof
Zbarsky, S. H., BA *Sask*, MA PhD *Tor*
Assoc. Prof.
Jellinek, P H., BA *Camb*, MSc
PhD *Lond* Asst. Prof
O'Donnell, V, BSc PhD *McG* Asst Prof
Pateron, A. R. P., MA PhD Asst Prof.
Tener, G M, MS PhD *Wiz*, BA Asst Prof.
Richards, J F, MA *Qu*, PhD *W Ont* Instr
Bely, J, MS *Kansas State Agric*, MSA
Campbell, J J R, PhD *Corn*, BSA Hon Lectr
Eagles, Blythe, MA PhD *Tor*, BA, FRCS,
FCIC Hon Lectr
2 Fellows

**Cancer Research Centre of the
University of British Columbia**

- Noble, R L, MD *Tor*, PhD DSc *Lond*
(Physiol) Prof, Dir
Beet, C T, DPhil *Oxon*, FRIC
(Biochem) Assoc. Prof
Jellinek, P H, BA *Camb*, MSc PhD *Lond*
(Biochem) Asst Prof
Lotz, F., BA MSc PhD *W Ont*
(Physiol) Instr
Richards, J F., MA *Qu*, PhD *W Ont*
(Biochem) Instr

Continuing Medical Education

- Williams, D H, BSc MD *Manit*,
MSc *Manit* Prof, Hd of Dept.

History of Medicine and Science

- Gibson, W C, MSc MD CM *McG*,
DPhil *Oxon*, BA, FACP Prof, Hd of Dept.
Bluh, O, DrRerNat DPhys *Prague* Hon Lectr
Eagles, B, MA PhD *Tor*, BA, FCIC,
FRSCan Hon Lectr
Kidd, Honor, MD CM *McG*, BA Hon Lectr

- Margetts, E L, MD CM *McG*, BA Hon. Lectr
Myers, D, BSc BE DScEng *Syd* Hon Lectr
MacDermot, J M, MD CM *McG*, Hon Lectr
Noiris, J M, PhD *Northwestern*, MA

- Stelman, I, MD *Manit*. Hon Lectr
Williams, D H, BSc MD *Manit*,
MSc *Manit* Hon Lectr

Medicine

- Kerr, R. B, OBE, MD MA *Tor*, FRCPCan,
FRCP, FACP Prof, Hd of Dept.
Evelyn, K A, BSc MD CM *McG*,
FRCPCan, FACP
Prof, Dir, G F Strong Lab for Med
Res
Whitelaw, D. M, MD CM *McG*, BA,
FRCPCan Prof.
Fahrs, B M, MD *Manit*, FRCPCan
Assoc Prof
Ford, D K, BA MD *Camb*, FRCPCan
(Canadian Arthritis & Rheumatism
Society Res) Assoc Prof
McIntosh, H W, MB *Camb*, MD CM
MSc *McG*, FRCPCan Assoc Prof.
Williams, D H, MD BSc *Manit*, MSc *Manit*
(Dermatol) Assoc. Prof
Solvonuk, P F., MA *Sask*, PhD *Alta*.
Res Asst Prof, Biochemist, G F.
Strong Lab for Med Res
†Clinical Associate Professors
Bagnall, A W, MD *Tor*, BA, FRCPCan
Baird, M M, BA *New Br & Oxon*, BM BCh
Oxon, FRCP, FRCPCan
Boyd, R W, BSc *Alta*, MD CM *McG* (Radiol)
Gould, C E. G, MD *S Calif*, BA (Neurol.)
Kincaide, G F, MD CM *McG*.
Munroe, D S, BSc *Sask*, MD *Manit*,
FRCPCan, FACP
†Clinical Assistant Professors
McNair, A Y, MC, MB *Tor*.
Palmer, R A, MD CM *McG*, BA, FRCPCan,
FACP, FRCPEd
Thomas, J P W, MD CM *Dal*.
Walker, J. E., MB *Tor*
Honorary Lecturer
Trapp, Ethlyn, BA MD CM *McG*, DSc
(Therapeutic Radiol)
†Clinical Instructors
Auckland, N. L D, BA *Sask*, MD *Manit*.
(Neurol.)
Beck, R. E, MD CM *Qu*, FRCPCan
Bogoch, A., MD BSc(Med) *Tor*, DSc *Penn*,
FRCPCan
Boxall, E A., MD CM *Qu*, FRCPCan
Boyce, K C, MD CM *Qu*, BA
Caldwell, J. W. G, MD *Alta*, FACP
Christopherson, E. F., BSc *Sask*, MD *Manit*,
FACP, FRCPCan
Covernton, C C, MD CM *McG*, BA
Donovan, E G., MB ChB *Liv* (Radiol)
Garner, F O, MD DPH *Tor*, BA
Garrow, D G, MB ChB *St And*

Gofton, J. P., MD CM *McG*, FRCPCan
 Hasselback, R. C., BA *Sask*, MD CM *McG*
 Henry, E. W., MD *Belf*, FRCPCan
 Hertzman, V. O., MD *Tor*, FRCPCan
 Hurlburt, F. W. B., BSc *Sask*, MD *Tor*,
 FRCPCan
 Johnson, A. M., MD *W Ont*, FRCPCan
 Johnston, Margaret M., MD CM *McG*, BA
 (Dermatol)
 Jones, D. P., MD ChB *Liv* (Neurol)
 Kaneb, B., MD *Manit.* (Dermatol.)
 Kidd, Honor M., MD CM *McG*, BA
 (Clin. Microscopy)
 Leroux, J. A., BSc *Sask*, MD *Manit*, DPH *Tor*,
 FRCPCan
 Mathisen, A. K., MD CM *McG*, BA, FRCPCan
 Mitchell, J. C., MD *Lond.* (Dermatol)
 Morse, P. W., BA *Sask*, & *Oxon*, BM BCH
Oxon
 Morton, J. W., MD CM *McG*, BA
 Moscovitch, B. B., MD *Alta*
 Moscovitch, J. C., MD CM *McG*, FACP
 Mowat, D., MD *Manit*, FRCPCan
 Murphy, H. O., MD CM *Qu*
 MacLean, C. A., MD CM *McG*, BA, FRCPCan
 McLean, T. K., MD *Alta*, FRCPCan, FACP
 Nelson, J. D., MB ChB *Glas* (Radiol)
 Pinkerton, A. C., MB ChB *Glas*
 Paige, B., MB BS *Syd*
 Pamell, J. L., MB ChB *Edm.*, BA, FRCPCan,
 FACP
 Reid, J. A. G., MD *Tor*, FRCPCan
 Rennie, C. S., MD *Manit.*
 Robinson, C. E. G., MD CM *Qu*, FRCPCan
 Scott, H., BSc *Alta*, MD CM *McG*
 Shallard, B. T., MB ChM *Syd*, MD *Melb*
 Shaw, M. H., MD CM *Qu*, FRCPCan
 Shiers, J. A., BA *Camb*, MB ChB *Manc*
 (Radiol.)
 Simpson, W. W., MA PhD MD *Tor*, BA, FACP
 Smide, H. C., MD CM *Dal*, FRCPCan
 Stalker, H. S., MD *Manit*, FACP
 Stansfield, H., MSc MD *Alta*
 Stewart, W. D., MD *Wash.*, FRCPCan
 Traynor, J. A., BA *Sask*, MD *Tor*, FRCPCan
 Trueman, G. E., BA MD *Manit* (Radiol)
 Walsh, G. C., MD CM MSc *McG*, BA,
 FRCPCan, FACP
 Walters, M. B., MD *Manit*, FRCPCan
 Wood, W. S., MD CM *McG*, BA (Dermatol)
 Zeldowicz, L., MD *Warsaw* (Neurol)
 1 Demr., 2 Fellows

Obstetrics and Gynaecology

Bryans, F. E., MD BSc *Tor*, FRCSCan
 Prof., Hd of Dept
 Boyd, J. R., MD CM *McG*, BA, FRCSCan
 †Asst Prof
 Bie, W. F., BSc *Sask*, MD CM *McG*
 Clin Assoc Prof
 Herstein, A., MD *Manit* Clin Asst Prof
 Johnston, F., MD *Alta*, FACS
 †Clin Asst Prof
 Millar, J. W., MD *Manit* Clin Asst Prof

Turko, M., MD *Tor* Clin Asst Prof
 Boyes, D. A., MD CM *Qu* Clin. Instr.
 Colson, D. B., MD CM *McG* Clin Instr
 Dickinson, J. J., MD *Tor*, FRCSCan
 Clin Instr
 Hobbs, F. S., MD CM *McG* Clin Instr
 Huang Chang, Madeline, MD *YaleMed*,
Coli.China Clin Instr
 Krusman, A., MD *Manit*, FRCSCan
 Clin Instr
 McDonagh, J. E., MD *Manit.* Clin Instr.
 MacEwan, W. R., MD *Alta* Clin Instr
 Nickerson, K. G., BSc *Alta*, MD
 * CM *McG*, FRCSCan Clin Instr
 Ross, J. E., MD *Qu*, BA Clin Instr
 Smith, G. G., MD *Tor*, FRCSCan Clin Instr
 Tysoe, F. W., BSc MD *Alta* Clin Instr
 Wadman, H. Clin Instr
 1 Teaching Fellow

Pædiatrics

Graham, B. D., AB *Alabama*,
 MD *Vanderbilt* Prof, Hd of Dept
 McCreary, J. F., MD *Tor*, FRCPCan Prof.
 Young, M. D., MA MB BChr *Camb*,
 FRCPCan Assoc Prof.
 Robinson, G. C. F., MD CM *Qu*,
 FRCPCan Asst Prof.
 Dunn, H. G., MB BChr *Camb*, MA
 Gibson, W. M., BA *New Br*, MD
 CM *McG* Asst. Prof
 Miller, J. R., MA *Tor*, PhD *McG*.
 Asst Prof
 Read, J. H., BSc MD CM *McG*, DPH
 Asst Prof
 Kendall, D., MA *Camb*, PhD *Manc* Asst Prof.
 Segal, S., BSc *McG*, MD CM *Qu*, MA
 Asst Prof
 Teasdale, Joyce M., MB ChB *Leeds* Asst. Prof
 Wilson, R. A., MD CM *McG*, BA,
 FRCPCan †Clin. Assoc. Prof
 Hardyment, A. F., MD *Manit*
 †Clin Assoc Prof
 Baker, H., MD *Tor*. †Clin Asst Prof.
 James, E. S., MD *Tor*. †Clin Asst Prof.
 Krivel, H., MD *Alta* Clin. Asst. Prof.
 Whitelaw, J. W., MD CM *McG*, BA
 †Clin. Asst. Prof.
 Mullinger, Margaret, MD *Tor* Instr.
 Vince, D. J., MD *Tor*. Instr.
 Campbell, K. A., MD CM *McG*. Clin. Instr.
 Gayman, G. R., BA MD *Tor*. Clin. Instr.
 Hingston, J., MD *N U I* Clin Instr.
 Marshall, J., BA MD CM *Beuit* Clin Instr.
 Mirhady, F., MD *Vanna* Clin Instr.
 Padwick, P. H., MB BS *Lond* Clin Instr.
 Peters, J., MD *Tor*, BA Clin Instr.
 Shuman, B., MD *Tor* Clin Instr.
 Stockton, W. H. S., MD *Tor* Clin Instr.
 Treffry, C. J., MD *Tor* Clin Instr.
 MacLennan, Jean M., MD *Edm*,
 DPH *Glas* Clin Instr.
 Dean, J., MB BChr *Camb* Clin Instr.
 4 Demrs., 5 Res. Fellows, 2 Teaching Fellows

Pathology

Taylor, H. E., MD CM *Dal*, FRCPCan,
FRCPed Prof, Hd of Dept
Pearce, R. H., MSc PRD *W Ont.* Assoc Prof
Vassar, P. S., MB BS *Lond.* Assoc Prof
Chase, W., BSc MD CM *McG* Asst Prof
Shepherd, W. E., BSc MD *Manit* Asst Prof
Fidler, H. K., MD BSc *Manit* †Clin Prof
Eden, J., MB BS *Durh* †Clin Prof
Askanezy-Dolman, Mrs. Clarisse, MD *Tor*,
BA Clin Asst Prof
Leach, W., MD *Manit*, MSc *McG* †Clin Asst Prof
Pitts, H. H., MD CM *McG* †Clin Asst Prof
Chisholm, H. A., MD CM *Dal* Clin Instr
Coady, C. G., MD CM *McG*, BA Clin Instr
Harmon, T. R., MD *Alta* Clin Instr
Phinney, J. I., BA BSc *Acad*, MSc *Dal* Clin Instr.
Scott, J. F., BSc MD *Alta* Clin. Instr.
Spitzer, R., AB *Corn.*, PhD *Cal Tech* Clin Instr.
MD *Manit.* Clin Instr
Sturdy, J. H., MD *Alta* Clin Instr
Sturrock, F. L., MB ChB *Edin* Clin Instr
Trites, A. E. W., MD CM *McG*, BA Clin Instr.
Culling, C. F. A. Instr.
† Museum Curator

Pharmacology

Foulks, J. G., BA *Rice*, PhD *Johns H*,
MD *Col* Prof, Hd of Dept.
Dower, G. E., MB BS *Lond* Asst Prof
Drummond, G. I., MSc *Alta*, PhD *Wis* Asst Prof
Perry, Florence, MSc *Dal*, PhD *Tor* Asst Prof
† Fellow

Physiology

Copp, D. H., BA MD *Tor*, PhD *Calif*,
FRSCan Prof, Hd of Dept
Black, E. C., MBE, BA *McM*, PhD *Penn*,
MA, FRSCan Prof
Noble, R. L., MD *Tor*, PhD DSc *Lond.*,
FRSCan Prof
McLennan, H., MSc PhD *McG*. Assoc. Prof
Craies, C. F., MSc *New Mexico*, PhD *Calif* Asst Prof.
Loiz, F., BA MSc PhD *W Ont* Asst Prof
† Demr, † Fellow

Preventive Medicine

Mather, J. M., MD DPH *Tor*. Prof, Hd of Dept
Elliot, G. R. F., MD CM *Qu.*, DPH *Tor* | Prof.
Anderson, D. O., BA MD,
FRCPCan Asst Prof
Read, J. H., BSc MD CM *McG*, DPH *Tor* Asst Prof
Nelson, A. J., MD *Glas*, DPH †Clin. Assoc. Prof.
Amyot, G. F., MB DPH *Tor* (Admin.) Hon Lectr

Wilson, W. A., BA MD *Tor*, FRCPCan
(Ethics) Hon Lectr.
Adams, J. R., MSc PhD *McG* (Parasitol) Lectr
King, D. M., MD *Tor* Clin Instr
Larsen, A. A., MD *Alta*, DPH *Tor*,
MPH *Manit*, BA Clin Instr
Waldie, A. C., MD *Alta*, BA Clin Instr
Willits, Reba E., MD DPH *Tor*. Clin Instr
† Res Fellow

Psychiatry

Tyhurst, J. S., BSc MD CM *McG* Prof, Hd of Dept
Gibson, W. C., MSc MD CM *McG*,
DPhil *Oxon*, BA, FACP Res Prof, Kinsmen Prof, Dir, Kinsmen Res Lab
Margetts, E. L., MD CM *McG*, BA Assoc. Prof
McGeer, P. L., PhD *Prin*, BA MD
(Kinsmen Res Lab) Asst Prof
Richman, A., MD *Manit* Asst Prof
Wada, J. A., MD DMSc *Hokkaido*
(Kinsmen Res Lab) Asst Prof
Watterson, D. J., MD *Camb*,
DPM *Lond.* Asst. Prof.
Davidson, G. A., MD *Manit*, FRCPCan,
FACP †Clin. Prof
Fisher, K. J., MD *Lond* †Instr
Gee, A. M., MD CM *Qu* †Clin. Prof.
Zeldowicz, H., MD *Rome* Clin Assoc. Prof.
Davidson, A. E., MD *Alta*, BA Clin Asst. Prof
Hutton, G. H., MD DPH *Tor* Clin Asst. Prof
Thomas, J. C., MA MB *Tor* Clin Asst. Prof
Warren, A. J., MD *Manit*, DPM *Lond.* | Clin. Asst. Prof
Gundry, C. H., MD *Tor*. Hon. Lectr.
Menzies, A. M., MD CM *Qu*. Hon. Lectr.
Wilson, J. R., MD *Qu* Hon Lectr

Clinical Instructors

Goresky, W. V., BSc MD *Alta*
Halliday, R., MB BCH BAO *Belf*, DPM *Manit*
Hirt, N. B., BA *Sask.*, MD CM *Qu*
Kaplan, S., MD *Tor*
Kenning, I. S., BSc MD CM *McG*
Kerwood, L. A., BA *Camb*, MD DPM *Dub*
Leyland, E. E., BS MD *Lond.*
Lindenfeld, Elda, MD *Vienma*
McNair, F. E., MD CM *McG*, BA
Tischler, I., MD *Munch*
Walsh, J., MB ChB BAO *N.U.I.*
Whitman, R. L., BSc *Sask*, MD CM *McG*,
DPM *Lond*
2 Demrs, † Teaching Fellow, 4 Res Assocs,
3 Res. Fellows (Kinsmen Res. Lab.)

Surgery

McKenzie, A. D., MD *Alta*, FRCSCan,
FACS Prof, Hd. of Dept.
Johnstone, F. R. C., MB *Edin*, MSc,
FRCSed Assoc Prof., Executive Officer
Elliot, A. J., MD *Tor*, MedScd *Col*,
FRCSCan Prof

Patterson, F. P., MD CM *McG*, FRCSCan,
FACS Assoc Prof
Chung, W. B., MD *McG*, FRCSCan Asst. Prof.
Christensen, R. M., BA MD, FRCSCan Instr
Sargant, T. R., MD *Tor*, BA, FRCS,
FRCSCan, FACS †Clin. Prof

†Clinical Associate Professors

Balfour, J. A., MD *Alta*, FRCSCan
Francis, G. H., BA MD *W Ont*
Gourlay, R. H., MD CM *McG*, FRCSCan
Graves, H. B., BA MD CM *McG*.
McLeish, A. A., MD *Tor*
Turnbull, F. A., MD *Tor*, BA

†Clinical Assistant Professors

Ashmore, P. G., MD *Tor*, FRCSCan
Boucher, H. H., MD CM *McG*, MSc *Iowa*
Chang, J., MD *Tor*, FRCPCan
Colbeck, J. C., MB BS *Lond*
Cowan, R. J., MD *Tor*, FRCSCan
Dodds, W. A., MD *Tor*
Elliot, J. A., MD *Tor*, FRCSEd, FACS
Evans, A. M., MD CM *McG*, DMRE *Camb*.
Harrison, W. E., MD *Manit*, FACS
Huggard, L. H. A., MD *Tor*, FACS
Lehmann, E. C. H., MD *Tor*, FRCSCan
Morton, K. S., MD *McG*, BA MSc, FRCSCan
Macartney, H. H., MB ChB BAO *Belf*,
FRCPCan
McConkey, A. S., MD *Alta*.
Robertson, R., MD *Tor*, FRCSCan, FACS
Simpson, D., MB ChB N Z, DOMS *Lond*,
FRCS, FRCSEd
Sutherland, W. H., MD CM *McG*, FRCSCan
Tanton, B. W., MD *McG*.
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Wilson, R., MD CM *McG*, FRCSCan, FRCS,
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†Clinical Instructors

Alexander, E. H., MD *Manit*
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Allen, P., MD *Tor*, FRCSCan
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Austin, W. E., MD *Manit*, FRCSEd, FRCSCan,
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Badger, G. A., MD *Alta*.
Blair, N. J., BSc MD *Manit*
Burnes, J. S. D., MD *Manit*, FACS
Cambon, K. G., BA MD CM *McG*
Carroll, J. J., BA *Bishop's*, MD CM *McG*
Chambers, H. L., BA *Sask*, MD *Tor*
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Cluff, J. W., BSc *Sask*, MD *Manit*, FRCSCan
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Cooper, H. G., BA MD *Alta*
Crawford, G. M., MD *W Ont*
Davies, C. E., MD *Alta*
Davies, Lois, MD *Tor*
Day, G. F., BSc *Mt All*, MD *Dal*

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Fratrian, L. B., BSc MD *Alta*, FRCSCan
Frost, J. W., MD CM *McG*, BA, FRCSEd,
FRCSCan
Fulton, J. B., BA MD *Alta*
Ganshorn, J. A., MD *Manit*, MS *Minn*
Gibson, J. M. W., BSc MB ChB *Glas*
Gillespie, H. S., MD *Tor*, FRCSCan
Goodman, G. B., MB ChB *Edin*
Grauer, F. W., MD CM *McG*, BSA, FRCSEd,
FRCSCan, FACS
Hall, E. R., BSc MD *Alta*.
Hall, W. M., MD *Alta*
Hudson, P. W., MD *Alta*
Hugill, Jean T., BSc MD *Alta*
Ingus, A. M., MD *Manit*, FRCSCan
Irving, J. A., MD *Qu*
Jackson, P. P., BS *E Cental State*, MD *Oklahoma*
Jenkins, L. C., BA MD CM *McG*, FRCSCan
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Lehmann, P. O., MD *Manit*.
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FRCSCan
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McKechnie, R. E., MD CM *McG*
McKinlay, W. D., MD CM *McG*, BA
Martensson, B. T. H., BSc MD *Manit*, FRCS
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Nixon, J. E., MD *W Ont*
Oslei, T. R., MD CM *McG*, FRCSCan
Oulton, J. L., BSc MD *McG*.
Paine, R. J., MD CM *McG*, BA
Patterson, W. J., MD *Ott*
Percheson, P. B., MD CM *Qu*, FRCPCan
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Poole, J. C., MD *Manit*
Preston, F. C., MD BSc *Tor*, FRCSCan
Randall, H. S., BA *New Br*, MD CM *McG*.
Raynor, E. F., MD CM *Qu*
Rees-Davies, P., FRCS, FRCSCan, FACS
Robins, R. E., MD *W Ont*, FRCSCan
Sands, C. A., BA *Sask*, MD *Tor*
Saxton, G. D., MD *Manit*, FRCSEd
Schultz, M. H., MD *Qu*.
Simpson, R. E., MD *Qu*, MA
Sleath, G. E., MD *Alta*, BA
Sparks, J. W., MD *Tor*
Smith, E. L., MD CM BSc BA
Smith, H. A., BA *Camb*, MB ChB *Belf*,
FRCSEd, FRCSCan
Starr, D. E., MD *Tor*, FACS
Stewart, A. J., MD *McG*, BA
Taylor, W. R., BSc *New Br*, MD CM *McG*.

Thompson, G B, BSc *Manit*, MD CM *McG*,
 FRCSCan
 Thompson, W J, BSc *Sask*, MD *Manit*,
 FRCSCan
 Thomson, F B, BA MD *Tor*, FRCSCan
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 Walcott, D B, BSc MD *McG*, FRCSCan
 Webb, E, MD *W Ont*
 Wilson, J. W, MD CM *McG*, FRCSCan
 Wilson, W. M G, BA *McM*, MD *Tor*.
 Wood, L. G, MD *Alta*, FRCSCan
 Woodsworth, R S, MD *Manit*
 Word, E F., BS *Oklahoma Baptist*,
 MD *Oklahoma*, FRCSCan, FACS
 Teaching Fellow

Thomson, Mrs. Mary, BA *Alta*, MSW
 †Asst in Family Life & Group Devel
 Curtis, B, BA *BEd*
 (Short Courses & Conferences) Superv
 Buttedahl, K., BCom
 (Liberal Educn Programme) Superv
 Campbell, L A, BSF (Forestry Serv) Superv
 Haar, J., BA (Business Courses) Superv
 Lindenbeiger, Mrs Alice
 (Evg. Class Programme) Superv
 Roberts, J G, BA (Audio-Visual) Superv
 Risk, S, MA *Corn* Field Rep in Drama
 Pearce, R. (Arts & Crafts) Superv
 Drew, G A, BSA (Agric & Fisheries) Superv
 MacFarlane, Mrs. Mary, BA MSW
 (Lecture Programmes & Speakers) Sec
 Wood, J. B, MA *Camb*
 (Extra-Mural Credit & Pub Affairs
 Programmes) Superv
 Stewart, Edith, BA *Manit*, BSInLS *Wash*.
 Extension Librarian
 Stewart, Jessie Film Librarian
 Kaye, R D Recordings Librarian
 Mignosa, S (Ceramics) Instr

UNIVERSITY EXTENSION

Friesen, J. K, DFC, BA *Manit*, AM
 EdB Col Dir
 Selman, G R., BA Asst Dir
 Thomas, A M., BA *Tor*, AM Col
 (Educn) Instr, Sp Asst in Extension
 Smith, Marjorie V, BA *Sask*, MSW
 (Family Life & Group Development) Superv

ADMINISTRATIVE AND OTHER STAFF

Admin Asst to Pres G O B Davies, MA
Camb Asst to Pres R R Jeffels, BA *BEd*
Alta, MA *Camb* Asst to Pres and Dir of Univ
 Development Fund A Roberts Assts to Dean
 of Arts I McT Cowan, PhD *Calif*, BA,
 FRCSCan, M F McGregor, PhD *Cinc*, MA,
 FRCSCan Admin Officer. Gen Sir Ouyvi L
 Roberts, GCB, KBE, DSO, MA *Camb* Asst.
 Registrars. Myrtle L Kievel, BA, J H Wallis,
 BA Sec to Pres Margaret Frederickson,
 BA *Tor* Dir of Summer Session K F Argue,
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 Anne Smith, BSInLS *Wash*., MA *Mich*, BA
 Dons Acadia Camp, Claire Willscroft, BA;
 Barbara Wallace, BA; Mary Bollert Hall, Noreen
 Mollard, BHSc *Sask*, Isabel MacInnes Hall,
 Shirley McKelvey, MSc, Anne Westbrook Hall,
 Cairne Lewis, BSc, Kootenay House, R. How-
 ard, BSc PhD *Nott*, Robson House, A J
 McClean, LLB *Belf*, Sherwood Lett,
 Acadia, Okanagan House, M K
 Morton, BA *Tor*, MA Col, Fort Camp, J K
 Vait, MSc *Birm*., BSc PhD *Lond*. Housing
 Administrator A. R Baird Dir., Student
 Activities and Internat House J Haar, BA
 Purchasing Agent: H. A Le Marquand
 Bursar W White Accountant M H Craven
 Supt. of Bldgs and Grounds T. Hughes, BEng
 McG Univ Bookstore and Post Office J A
 Hunter (Manager and Postmaster) Dir., Food
 Services Ruth Blair, MS *Corn*., BHE. Asst
 Dir., Food Services: Mis D M L. Eaton, BSc
Alta. Dietitians in Charge Fort Camp, Mrs.
 Bernice Vrana, BHE, Acadia Camp, Mary
 McLennan, BHE; Gymnasium & Bus Stop,
 Mrs Janet Marsh, BHE, Cafeteria, Julia Neame;

Commons, Dons Schuh, BSc(HEC) *Alta* Hon
 Curator of Herbarium J W. Eastham, BSc
Edu Curator T M C Taylor, MS *Wit*,
 PhD *Tor*, BA Anthropol Museum, Dir
 H B Hawthorn, MSc BA *N Z*, PhD *Yale*,
 FRCSCan, Curator Mrs Audrey Hawthorn,
 MA Geol Museum, Hon Curator M Y
 Williams, BSc *Que*, PhD *Yale*, FGSA, FRCSCan
 Zool Museum, Dir. Ian McT Cowan, PhD
Calif, BA, FRCSCan; Curator of Fishes C C
 Landsey, BA *Tor*, PhD *Camb*, MA, Curator of
 Terrestrial Vertebrates A Witt

INFORMATION OFFICE Information Officer
 J A Banham, BA Asst Information Officers
 Laree S Heide, Mrs Timothy Carlick

UNIV HEALTH SERVICE. Dir of Health Service
 and Health Service Hosp A K Young, MB
 ChB *Glas* Asst Dir I L Shand, MD *Manit*
 †Staff Physician J. K A Cloke, MD *Manit*
 Physicians A C Waldie, MD *Alta*, C Brum-
 well, MD, D B Rix, MD *W Ont*., H J
 Ruebsaat, MD *Bonn* Consultant Psychiatrist
 D J Watterson, MD DPM *Camb* Consultant
 Radiologists S Miller, MD CM MSc DRT
 McG; H M Spiro, MD CM BSc *Dal* Nursing
 Supervisor Muriel Uphall, BASc Pub Health
 Nurses Mrs. Madeleine Noble, BSN, Jane
 Vango; Margaret Cameron, BSN; Betty Barrett.
 Head Nurse, Hosp Mrs June Hyton

COUNSELLING, PLACEMENT, STAFF PERSONNEL,
 VETERANS' SERVICES Dir of Student and Per-
 sonnel Services J F McLean, DSO, CD, BA
 Asst. Dir. & Counsellor A. F Shirran, MA
 Counsellors A Cox, MA *Tor*, BA, J E B.
 Ryan, MA PhD *Tor*, BA, R H Speed, MA.

AFFILIATED COLLEGES

ANGELICAN THEOLOGICAL COLLEGE OF BRITISH COLUMBIA, Vancouver, B.C. (tel. CA4-4511) Affiliated in 1924. Provides courses leading to its own degrees and dipl. in theol (BD, Hon DD, STh, LTh) and in religious knowledge options for credit towards univ. BA. Actg. Principal—Rev J. Blewett, BA Sask, BD Manit.

ST ANDREW'S HALL (tel. CA4-7720) (Presbyterian Church in Canada). At present residential only. Dean—J. H. Ross, MA PhD Tor., BD Knox (Tor.).

ST MARK'S COLLEGE, Vancouver, B.C. (tel. CA4-3311) (R.C.) Largely residential but provides courses in religious knowledge options for credit towards BA of the univ. Principal—Very Rev H. Carr, BA Tor., Hon LLD Sask, Assum & Br. Col.

UNION COLLEGE OF BRITISH COLUMBIA, Van-

couver, B.C. (tel. CA4-3266) (United Church of Canada). Affiliated in 1920. Provides courses leading to its own degrees and dipl. in theol (BD, BTh, Hon DD, testamur) and in religious knowledge options for credit towards univ. BA. Principal—Rev W. S. Taylor, MA Emmanuel, PhD BD Tor.

VICTORIA COLLEGE, Victoria, B.C. (tel.: Evergreen 2-9131) Affiliated to univ. in 1920, for 4 yrs, in arts & sci., incl. 1st yr comm. and 4 yrs of educn. degree programme. W. H. Hickman, DUPass, MA, Principal, Prof. of French, R. T. D. Wallace, MA, Vice-Principal & Dir. of Evg. Div., Prof. of Maths., H. C. Gilliland, MA, Dir., Teacher Educn.; H. E. Farquhar, MA, Exec. Asst. to Principal & Dir., Summer Session, Dorothy M. Cruckshank, BA, Registrar. 4 Profs., 21 Assoc. Profs., 27 Asst. Profs., 15 Instrs., 5 Lectrs., 9 Lectrs.

GENERAL INFORMATION

The Univ. of British Columbia was incorporated by an act of 1908. The univ. site consists of 1000 acres on the headland of Point Grey, 300 feet above the sea. Here a group of bldgs, constructed at a cost of nearly \$2,000,000, was opened in 1925.

The univ. is an integral part of the public educn. system of the province, and its function is to complete the work begun in the public and high schs. It is the policy of the univ. to promote educn. in general, and in particular, to serve its constituency through 3 channels—teaching, res. and extension work. It furnishes instructn. in the various branches of a liberal educn. and in those technical depts. which are most directly related to the life and industries of the province. The people of the province are informed of the results of sp. work by the staff of the univ. through the dept. of univ. extension. B.C. has a population of 1,544,000 and Greater Vancouver of 612,900.

CONSTITUTION The bd of governors consists of the chancellor, elected by convocation, president and 9 persons—3 elected by the senate and 6 apptd. by the lieut.-govr. in council. The senate consists of the chancellor, pres. (as chairman), deans and 2 profs. of each fac., 3 nominees of the lieut.-govr. in council, 2 profs. of Victoria Coll. elected by the fac., principals of normal schools, one member elected by high sch. principals and assts., one by each affiliated coll. in the province, 15 by convocation, one by the B.C. teachers' federation, 3 members apptd. by the board of management of alumni assoc.

INCOME (1959-60) Total income, \$14,640,343 (govt. of Canada grant, 25.1 per cent., provincial grant, 34.3 per cent., student fees, 26.8 per cent., gifts, grants and bequests, 8.9 per cent.; other sources, 4.9 per cent.)

DEANS See p. 156

LIBRARY 475,000 vols., regularly receives about 4000 periodicals. Strong in serial publications of scholarly and scientific socs.

LABORATORIES available for all courses. The forest products lab. (opened 1958) is a unit of the F.P. lab. div. of the forestry branch, dept. of forestry, govt. of Canada. HERBARIUM: 90,000 sheets flowering plants and ferns. BOTANICAL GARDENS, arboretum and econ. section, 5 acres.

TEACHING HOSPITALS. Vancouver General H., St. Paul's H., Shaughnessy Military H.

UNIVERSITY RESEARCH FOREST, about 7 mls. long and 2½ mls. wide, N. of the town of Haney, was granted to the univ. by the prov. govt. in March 1949. The CAMPUS FOREST consists of a narrow belt S and W of the univ. and acts as a demonstration and field study area for for., biol., bot. and zool.

MUSEUMS. (1) Anthropol. museum (in library)—Burnett collection of South Seas and other ethnol. specimens; Raley collection of Indian artifacts; Buttina collection of Indian baskets; Mitchell Pierce collection of Eskimo clothing and utensils; van Heerselt van den Doorn collection of Egyptian and classical materials; numerous other valuable collections. (2) Geol. and geog. museum in the for. and geol. bldg. (3) Zool. museum in biol. scis. bldg. (4) Botanical collections and herbarium.

THE BRITISH COLUMBIA RESEARCH COUNCIL has its HQ. and labs. on the campus. It works in close co-operation with the sci. depts. of the univ. and its programme includes fundamental and appl. res. Staff of 70, of which 45 are professional scientists and engineers.

CONNAUGHT MEDICAL RESEARCH LABORATORIES (WESTERN DIVISION) In 1935, under co-operative arrangement with provincial dept of health of B C and the Connaught med res labs. of the Univ of Toronto, the latter instn establ a western division on the campus which is now situated in the Westbrook bldg. Res projects in microbiol as applied to pub. health and prev med are pursued here in conjunction with students and staff of dept of bacteriol and immunol in collaboration with division of labs of provincial dept of health.

ART CENTRE Incl. among activities of the fine arts cttee, under joint supervision of the visual arts cttee. and the handicrafts cttee, the art centre includes a workshop and an art gallery. The workshop gives courses in ceramics, painting, sculpture, weaving and other appl arts, which are open to students, staff and extra-mural registrants but do not carry academic credit. The art gallery maintains a continuous display of loan exhibitions.

COMPUTING CENTRE Establ 1957 with the help of local bus and indust and with grants from the N R C and defence res bd. Provides trg in the use of high-speed computers and serves as an aid and stimulus to res. Facilities of the centre are available to bus and engin firms as well as to univ personnel.

INSTITUTE OF OCEANOGRAPHY is supported in part by the N R C, the defence res bd. and by the jnt. cttee. on oceanog, the last named body representing the interest of the Royal Canadian Navy, the national res. council, the fisheries res bd and the hydrographic service. The inst represents the co-operative effort of the depts of biol and bot, geol., chem., phys and zool to train grad. students in one or more of these branches in the principles and techniques of oceanog res. The inst is further charged with the responsibility for fundamental res in oceanog.

An **INSTITUTE OF FISHERIES**, within the fac of grad studies, gives at the grad level broad and advanced instructn in various fields relating to the best use and management of the fisheries' resources.

ADMISSION See Appendix III

FIRST DEGREES BA and BSc general, BA and BSc single or combined honors, 4 yrs (from jr. matric.), BA and BSc double honors, 5 yrs (from jr. matric.). BA honors may be taken in practically all depts in fac of arts & scis except music and fine arts. BSc honors may be taken in bacteriol., biochem, biol., bot., chem, geol, appl maths., phys, physiol, zool. BHE, BPE, BMus, 4 yrs. (from jr matric) BCom, BASc in appl sci., BSF (forestry), 5 yrs (4 from 1st yr in arts or sr. matric). BArch, 6 yrs—3 yrs. arts plus 3 yrs archit (from jr. matric) BSA general, 4 yrs. (from jr matric.), BSA honors, 5 yrs. (from jr. matric) LLB, 3 yrs (from 3rd yr. in arts and sci.). BSP, BSN, 4 yrs (from sr. matric or 1st yr arts). MD, 4 yrs (from 3rd yr arts or BA)

BEd, 4 or 5 yrs (from jr matric), also 1 yr. postgrad

HIGHER DEGREES. MA, MAsc, MSA, MF, MSc, MBA, MSW, MED, MPF, MArch, MSP, 1-2 yrs postgrad BSW, 1 yr postgrad work BLS, 1 yr postgrad work

MA may be taken in anthropol., bacteriol & immunol, biol, bot, classics, econ., educn, Engl, genetics, geog., hist, internat. studies, langs. (mod & classical), maths, pharmacol, philos, phys, planning, pol sci., psychol., slavonic studies, sociol., zool. MSc may be taken in agric. microbiol, anat, bacteriol. & immunol, biochem., biol, bot, chem., geol, genetics, metall, neurol, phys, physiol., planning, zool

PhD (min. of 3 yrs' postgrad work offered in anat, bacteriol & immunol, biochem, biol & bot, chem, chem engin, civil engin, classics, dairying & soil sci, electr engin, Engl, for (in co-operation with biol, bot and zool), genetics, geol, maths, metall, pharmacol, philos, phys., physiol, psychol, romance studies, soc scis, zool)

HONORARY DEGREES LLB, DSc and DLitt

The univ does not award EXTERNAL DEGREES.

DIPLOMAS 1 yr (from at least grade X), occupnl agric; 1 yr. (from jr matric, and R N.), pub health nursing, admin of hosp nursing units

FEES Arts & scis., agric, educn, nursing \$346 per session Appl sci (incl aicht and engin), comp & bus admin, for, law, pharmacy: \$396 per session Soc work BSW \$396 per session, MSW \$346 per session Med. \$551 per session Occupnl agric \$256 per session Partial courses. \$22 per unit Grad study \$346 per session

ACADEMIC YEAR Sept 1 to Aug 31: winter session—approx 15 Sept to 1 May, 2 terms of 14 wks and 17 wks respectively, summer session—July to mid-Aug., approx. 7 wks

SUMMER SESSION. In July and Aug., courses for credit towards a degree are offered, max. of 6 units only permitted. Non-members of the univ. (non-matriculants) may be admitted to the summer session only as auditors. They are not permitted to write the course exams, nor receive univ credit for the courses audited

SUMMER EXTENSION COURSES. Non-credit courses in dance, dramatics, weaving, painting, pottery, music, writing, photography, arts and crafts.

UNIVERSITY EXTENSION. Since 1936 the dept of univ extension has carried on a comprehensive and varied programme of adult educn. It is responsible for the admin of the rural section of the dominion-provincial trg programme, sponsored jty by the Canada dept of labour and the prov dept of agric. The present activities of the dept. include extension lectures at various centres throughout the prov; evg. classes; discussion groups; dramatics; agric.; short courses carry-

ing no acad credit, during both winter and summer sessions; visual instruct by means of (i) lantern and film slide service, (ii) moving picture service, radio broadcasts, library assistance; art and music courses (made possible by Carnegie art teaching set and Carnegie music set), educnl programme for British Columbia fishermen, correspondence courses and extra-sessional courses for academic credit, home econ, arts and crafts, parent educn, family life educn and group devel. Several correspondence and extra-sessional courses carrying credit towards a degree are offered.

'OPEN' SCHOLARSHIPS AND FELLOWSHIPS FOR GRADUATES Standard Oil Co of British Columbia Ltd fellowship, \$950, Aluminium Labs Ltd fellowship, \$1600, Powell River Co Ltd scholp, \$700, British Columbia Electric Rly Co Ltd res scholp, \$500, Cariboo Gold Quartz Mining Co. Ltd scholp, \$250, Cominco fellowship, \$1000, Johnston Terminals Ltd fellowship in comm, \$1500, Leon Koerner grad scholp, \$500, Canadian Pulp & Paper, W. Div, fellowships (2), \$590 each, Shell Oil fellowship for res, \$1200, Canadian Industries Ltd fellowship for res, \$2000, Edith Ashton memorial scholp, \$250, B.C. Telephone scholps (4), to total of \$2500, British Columbia Electric Railway Co fellowship in agric, \$800, Burroughs Wellcome fellowship in anaesthesiol and appl pharmacol, \$1000, grad scholps in slavonic studies, \$1600; Poulenc fellowship in appl physiol, \$500, United Fishermen and Allied Workers' Union scholp in fisheries, \$200; California Standard Co Fellowship, \$1000, Queen Elizabeth scholps (5), to total of \$5000; Northern Electric fellowship, \$1200, Van Dusen fellowship in for, \$1500; Warner Lambert res fellowship in pharm, \$2100; Vancouver Sun grad. scholp. for journalism, \$2000. Students may also contact individual depts about the possibility of res assistantships.

ALUMNI ASSOCIATION is composed of hon, active and assoc members. Governing body composed of a bd of management and executive cttee elected at the annual meeting. The excec diu is employed by the assoc on a full-time basis. The alumni annual giving programme, establd. in 1948, is now part of the U.B.C. Develop Fund which in 1957-58 conducted a public campaign for capital funds realizing more than \$8,000,000. This develop fund is a continuing operation in fund raising.

RESIDENCE Bd and lodging in vicinity of the univ. from \$60 upwards p.m. Acadia Camp, accomm for about 315 men and 46 women. Terms, Dble. rm, \$420, single rm, \$455. Fort Camp, accomm for 385 men. Terms as for Acadia Camp. Women's Residences. Mary

Bollert Hall, Isabel MacInnes Hall, Anne Westbrook Hall. Accomm for 52 women in each hall. Fees \$560 per session for single rooms, \$525 per session for dble rooms. Men's residences. Robson House, Kootenay House, Okanagan House, Sherwood Lett House, each accommodating 96 men. \$490 for dble rooms, \$525 for single rooms.

UNIVERSITY SERVICE TRAINING CORPS (a) Canadian officers' trg corps, (b) univ naval trg div, (c) R C A F (reserve) univ flight. All service trg. on the campus is under the jurisdiction of a jlt services univ trg cttee.

STUDENT HEALTH SERVICE. The univ health service comprises an up-to-date and well-staffed out-patient dept. together with a 26-bed hosp. The health service is not a teaching dept, being maintained solely for the benefit of students who may require med. care and advice.

In addition to providing med and nursing care and investigation of any student health problems, the health service carries out the compulsory routine med exams required by the univ. Each student on admission is given complete physical exam, including tuberculin skin test and chest X-ray. Before participation in athletics all women students are annually medically examined and men students are checked as to physical fitness for participation in strenuous athletics. A scheme for the control of communicable diseases and the following up of defects is in operation and first-aid is rendered by a full-time public health nurse. The med officer is available at specified hours for consultation.

STUDENT ORGANIZATIONS. The Alma Mater soc with its governing executive, the students' council, controls all student activities and is responsible for student discipline. Every student automatically becomes a member of the Alma Mater soc when he enrolls in the univ. Members are elected every spring to hold office through the next yr.

STUDENT ATHLETIC FACILITIES 5 playing fields; 2 gymnasiums; swimming pool.

PUBLICATIONS *Calendar* (April); summer session *Announcement of Courses*, lecture series; President's *Annual Report* (No charge for any of these publications) *History of the Univ of British Columbia, 1908-1958*, by Prof. H. T. Logan; obtainable only at univ bookstore, price \$5, *Canadian Lit*: quarterly of crit. and review, \$3 p.a.—subs to circulation manager; *Pacific Affairs*: internat quarterly reviewer of the far east and Pacific area, \$5 p.a.—subs to circulation manager.

UNIVERSITY BOOKSTORE Supplies all textbooks, instruments, etc., required by students.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS *Bldgs. completed* men's residence—Sherwood Lett House and Commons; Walter C. Koerner wing to

library, extn of Westbrook bldg for pharm; extn. of Buchanan bldg.

RETIREMENTS. A. C. Cooke (hus)

RESIGNATIONS H Ming (maths), W Jean McEwen (home econ); L W Shemilt (chem engin), J S Clark (soil sci), G M Guccione (plant sci), R P Doie (asian studies); R M Bain (comm), F G Brauer (maths), D P Payne (theatre), M Booth (Engl), A W Mairis (civil engin), R I Ruggles (geog), K N R Taylor (phys), J Hatter (zool), D Cornwall (educn), Mrs Karen Sandford (phys educn), T I Matuszewski (econ and pol sci)

DEATHS T Larsen (emer prof of Engl), Mrs Marianne Jetter (asst prof of German), P. M. Spohn (clin asst prof of ped), S S Murray (clin assoc prof of prev med.), D K Bell (assoc prof of comm), E Hamber (chancellor emer)

HONORARY DEGREES LLD—F-M. Vise Montgomery of Alamein, Sir Joseph J Saville Gainer, high commissioner for U K in Canada, K. W Taylor, dep min of finance, H E Major-Gen the Rt Hon G P Vanier, govr-gen of Canada, J W Gardner, pres, Carnegie Corp and Carnegie Foundation for Advancement of Teaching, Hon H C Green, sec of state for external affairs *DLitt*—Sir Frank C Francis, dir & principal librarian, British Museum; L B Wright, dir, Folger Shakespeare Library *DSc*—Gen. the Hon A G L McNaughton, former pres., N R C, H G Thode, vice-pres, McM, S C Barry, dep min of agric, T W M. Cameron, dir, Inst of Parasitol, McG

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	8078	156
Women	3234	153
Total	11,312	309

Distribution by Faculties *Agric*, 179, *appl sci*, 1336, *arts*, 5689, *comm & bus admin*, 635, *educn*, 2188, *for*, 160, *Sopron div*, 23, *grad studies* (incl soc. work), 817, *law*, 240, *med*, 203, *pharm*, 151 Total, 11,621

Included in the figures above are —

Postgraduate students (incl soc. work), 817

New admissions, 3926

Students from other countries, 1478 (Countries from which largest numbers came U K, 383, W Indies Fed., 189, Fed. German Rep, 128, U S A, 119, Hong Kong & China, 126, Netherlands, 76, India, 55)

Extra-sessional and correspondence (not incl above), 2600 (1210 m, 1390 w)

DEGREES AWARDED (1959-60) *Agric* BSA, 35, BSA (hons), 2 *Appl sci* BAsc, 189; BArch, 12, BSN, 41 *Arts* BA, 405; BA (hons), 46, BSc, 116, BSc (hons), 58; BHE, 37, BPE, 20, BSW, 41, MSW, 13 *Comm & bus admin* BCom, 128 *Educn* BEd, 196 *For* BSF, 36, Sopron div, 25 *Grad studies* MA, 33, MSc, 47, MASc, 25, MSA, 5, MF, 5, MEd, 16; MBA, 4, MPE, 2, PhD, 27. *Law* LLB, 63 *Med* MD, 56 *Pharm* BSP, 30

DIPLOMAS AWARDED (1959-60) Pub. health nursing, 42, clin supervision & teaching, 11, occupnl agric, 1

CARLETON UNIVERSITY*

Founded 1942. Incorporated as Ottawa Association for the Advancement of Learning, 1943,
as Carleton College, 1952; as Carleton University, 1957

Postal Address. Ottawa 1, Ontario, Canada

Cables and Telegrams. Carleton University, Ottawa

Telephone. Central 5-5261

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W Ont, *Qu*, *Algiers & Sask*, Hon. DSc *McG*, *Laval*, B. Col., *Prin*, N S T C., *McM*, *New Br*,
Montr. & *Mant.*, Hon. ScD *Cam.*, Hon. DCL *Bishop's*, FRSCan, MEIC

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M. S. MACPHEIL, BA *Qu*, MA *McG*, DPhil *Oxon*, FRSCan

DIRECTOR, DIVISION OF SCIENCE—H. H. J. NESBITT, BA *Qu*, MA PhD *Tor*, DSc *Ley*, FLS

DIRECTOR, SCHOOL OF ENGINEERING—J. RUPTASH, BSc *Alta*, MASC PhD *Tor*

REGISTRAR AND RESEARCH ASSOCIATE PROFESSOR OF EDUCATION—J. A. B. McLEISH, MA *McG*, PhD *Conn*.

BURSAR—F. J. TURNER, BCom MA *Tor*, FCIS

LIBRARIAN—HILDA G. GIFFORD, BA BLS *McG*.

TEACHING STAFF

[†=Part-Time]

Accounting

Brennan, C. N., BCom *Br Col*,
MS *Col*, CA

†Sessl. Lectr

Sterns, A. A., LicCom *St. Gallen*,
DrRerPol *Berne*, CA

†Sessl. Lectr.

Larose, A. B., BCom, CA

†Sessl. Lectr.

Binning, N. R., BCom *McG*, CA

†Sessl. Lectr

Laughton, P. M., BA *Tor*, MSc *Dal*,
PhD *Wit*

Assoc Prof

Forman, A. G., MASC B. Col

(on leave) Asst Prof

Wiles, D. R., BSc *Mt All*, BEd MSc *McM*,
PhD *M I T*

Asst. Prof.

Cherniak, E. A., MA *Qu*, PhD *Leeds*

Asst. Prof

Elworthy, R. T., MBÉ, BSc PhD

Sr Demr

Anthropology, see Sociol.

Biology

Nesbitt, H. H. J., BA *Qu*, MA PhD *Tor*,
DSc *Ley*, FLS

Prof.

Wightman, F., BSc PhD *Leeds*

Assoc Prof

Illman, W. I., BA MSc PhD *W Ont*.

(Bot.) Assoc Prof.

Smith, D., MA PhD *Tor*

Asst Prof

Bayly, Mrs Isabel L., BSc MA *Tor*

Lectr.

Solman, V. E. F., MA PhD *Tor*.

†Sessl. Lectr

Tucker, J. S., MA PhD *Br Col*.

†Sessl. Lectr

Chemistry

Morton, J. M., MSc *Dal*, MA PhD *Prin*,
FCIC

Prof

Holmes, J. M., BSc *New Br*, MA *W Ont*,

PhD *McG*

Prof

Classics

Swallow, F. Ellenor M., MA *Alta*,
PhD *Conn*

(on leave) Assoc. Prof

Hodge, A. T., MA PhD *Camb*

Asst. Prof

Austin, J. N., BA *Tor*, MA *Calif*

Lectr

Goble, N. M., MA *Edin*.

†Sessl. Lectr.

Showman, W. H., MA *Qu*

†Sessl. Lectr.

Commercial Law

Corlett, M. E., BA *Tor*

†Sessl. Lectr.

Economics

Gordon, H. S., BA *Dal*, AM *Col*

Prof

English, H. E., BA *Br Col*, PhD *Calif*

Assoc Prof.

Brewis, T. N., MCom PhD *Durh*

Assoc. Prof.

Kalsku, S. F., BA *Br. Col*, MA *Tor*,

PhD *Camb*

Asst Prof

* Member of the Association of Universities of the British Commonwealth

Read, L. M., BA *Dal*, MA *Tor* †Sessl Lectr
 Wells, J. S., BSc *McG* †Sessl Lectr
 Gigantis, T., MA *McG* †Sessl Lectr

Engineering

Ruptash, J., BSc *Alta*, MAsc PhD *Tor* Prof
 Putnamergis, R., MechEng *Latvia*,
 MEng *McG* Assoc. Prof
 Goldsmith, E. E., DIC, DipEng *Beil*
 (on leave) Assoc. Prof
 Bowes, W. H., DipEng *Dal*, MEng *N S T C*,
 MSc *Much* Assoc. Prof
 Gullen, M. A., BSc *Edin*, MS *Purdue*
 Assoc. Prof
 Tackaberry, S. G., CBE, BAsc *Tor* Asst Prof
 Majumdar, H., BSc *Ban*, MSEE *Lehigh*,
 PhD *Syr* Asst Prof
 Wright, W., BAsc *Tor* Asst Prof
 Van Dalen, K., BSc *Qu*, DIC, MSc *Lond* Lectr
 McDonald, R. C., BAsc *Tor* †Sessl Lectr
 Cookshutt, E. P., BAsc *Tor*, SM
 MechEng *SeD M I T* †Sessl Lectr
 Chappell, M. S., BAsc *Br Col* †Sessl Lectr
 Crawford, C. B., DIC, BSc *Qu*,
 MSc *Northwestern* †Sessl Lectr
 Klein, G. J., BAsc *Tor* †Sessl Lectr
 Ney, C. H., BAsc *Tor* †Sessl Lectr
 Stephenson, D. G., BAsc *Tor*, PhD *Lond*
 †Sessl Lectr.
 von Baeyer, H. J., PhD *Heidel*. †Sessl Lectr

English

Beattie, A. M., BA *Tor*, AM PhD *Col* Prof
 Johnston, G. B., MA *Tor* Prof
 McDougall, R. L., BA *Br Col*, MA
 PhD *Tor* Assoc. Prof
 Wood, G. J., MA *Tor* Assoc. Prof
 Hoinyansky, M., BA *Tor*, MA *Oxon* Asst Prof
 Jones, B. W., BA *Gronnell*, MA PhD *Iowa* Lectr
 Young, Katherine, BA *McG & Oxon* Lectr
 Wurtele, D., BA *Lond* †Sessl Lectr
 Phillips, Mrs. Mary A., MA *Tor* †Instr
 Underhill, Mrs. Ruth M., BA *Sask*,
 MA *Tor* †Instr
 Elliot, Belle, BA *Qu* †Instr
 Carson, Edwina, BA *W Ont* †Instr
 Collins, Mrs. J. M. S., MA *McG* †Instr

French

Mélèse, P., DèS *L Paris* Visiting Prof
 Tassie, J. S., BA *McM*, MA PhD *Tor*
 Assoc. Prof
 Fleischauer, C. P., AM PhD *Hav*. Asst Prof
 Blais, J. E., LèS *L Montr*. Asst Prof
 Kushner, Eva, BA PhD *McG*. †Sessl Lectr.
 Mélèse, Mrs. Madeline, LèS *Sc Paris*
 †Sessl Lectr
 Bédard, S., LenD *Paris* †Sessl Lectr

Geography

Merrill, G. C., MA *McG*, PhD *Calif*.
 Assoc. Prof.

Johnson, J. P., Jr., AB *Dartmouth*,
 AM *Clark* Asst Prof
 Bone, R. M., BA *Br Col*, MA *Wash*
 †Sessl Lectr

Geology

Ruddell, J. E., BEng MSc PhD *McG*,
 FRSCan, FGSA Prof
 Hill, P. A., BSc *Lond*, PhD *Col*, FGS
 Asst Prof.
 Young, W. L., MSc PhD *McG* Asst. Prof
 Hooper, K., MSc *Lond*, FGS Asst. Prof
 Tupper, W., MSc *New Br*, PhD *M I T*
 Asst Prof
 Alcock, F. J., BA *Tor*, PhD *Yale*, FRSCan,
 FGSA †Sp Lectr
 Allen, Mrs. M. M., BSc *Col*,
 MSc *Northwestern* †Sessl Lectr.
 McLearn, F. H., BE *Dal*, PhD *Yale*,
 FRSCan, FGSA †Sessl Lectr
 Boyle, R. W., MA PhD *Tor*, FRSCan
 †Sessl Lectr
 Pelletier, B. R., MSc *McM*, PhD *Johns H*
 †Sessl Lectr
 Collett, L. S., BSc *McM*, MA *Tor*
 †Sessl Lectr.
 Niblett, E. R., MSc *Tor*, PhD *Camb*
 †Sessl Lectr
 Potter, R., MSc *New Br* †Sessl Lectr

German

Oppenheimer, E. M., BA *Tor*, AM *Col*,
 PhD *Hav* Assoc. Prof.
 Waddams, Mrs. Margaret, MA *Oxon*
 †Sessl Lectr
 Bruhwiler, J., BA †Sessl Lectr

History

Gibson, J. A., BA *Br Col*, MA *BLitt*
 DPhil *Oxon* Prof
 Farr, D. M. L., BA *Br Col*, MA *Tor*,
 DPhil *Oxon* Assoc. Prof
 Couse, G. S., BA *McM* Assoc. Prof
 Mealing, S. R., BA *Alta*, MA *BLitt Oxon*
 Assoc. Prof
 Moir, J. S., MA PhD *Tor* Asst Prof.
 Bowen, D. G., MA *Qu* Asst Prof
 Griffiths, Naomi E. S., BA *Lond*,
 MA *New Br* †Instr
 McQueen, J. M., MA *Tor* Hon. Lectr.
 Grantham, R., MA *Br Col* †Sessl Lectr
 Clark, L. C., BA *Manit.*, MA *Tor* †Sessl Lectr.
 Knowles, Mrs. Valerie, BA *Smith*,
 MA *McG*. †Sessl Lectr

Journalism

Eggleston, W., MBE, BA *Qu* (on leave) Prof.
 Kesterton, W. H., BA *Qu*, BJ Asst Prof
 Scanlon, T. J., BJ *DPA* Visiting Lectr
 Baldwin, Mrs. Frances O., BA *BJ* †Sessl Lectr.
 Herbert, W. B., BA *LLB Alta* Seminar Leader
 Calder, P., BA *Tor* Field Work Supervisor
 La Berge, R. Field Work Supervisor
 Flsherty, K.

Mathematics

Macphail, M. S., BA <i>Qu</i> , MA <i>McG</i> , DPhil <i>Oxon</i> , FRSCan	Prof
Northover, F. H., MA <i>Camb.</i> , PhD <i>Lond</i> Assoc	Prof
Beesack, P. R., BA <i>McM</i> , AM PhD <i>Wash</i> Assoc	Prof
Treffner, H., BSc <i>SnG Wms</i>	Lectr
Gamble, R. B., BSc <i>McG</i>	Lectr
Macquarrie, Mrs Isabel, BA <i>Manit</i> , AM <i>Wash</i>	Lectr
Reitner, L. W., BA <i>Tor</i>	†Sessl Lectr
Robinson, P., PhD <i>Cape T</i>	†Sessl Lectr
Dalc, D. K., BA <i>Qu</i>	†Sessl Lectr
Beatty, R. L., BA <i>Tor</i>	†Sessl Lectr
Gardner, J. C., BA MEd <i>Tor</i>	†Sessl Lectr
Wickens, A. J., MSc	†Sessl Lectr
Veall, A. R., BA <i>McM</i>	†Sessl Lectr
Byrne, L. J., MA <i>Tor</i>	†Sessl Lectr
Hobson, Frances, MA	†Sessl Lectr
Rust, Velma, BSc MEd <i>Alta.</i> , PhD <i>Ill</i> †Sessl	Lectr
Felleg, I., MSc	†Sessl Lectr
Rukiewicz, M., CrvEng <i>Warsaw</i>	†Sessl Lectr

Philosophy

Wernham, J. C. S., MA <i>Aberd & Camb</i> , STM <i>U T S (N.Y.)</i>	Prof
Wand, B., MA <i>Qu</i> , PhD <i>Corn</i> (on leave) Assoc	Prof
Thompson, J. M., MA <i>Tor</i>	Asst Prof
Talmage, R. S., MA <i>Oxon</i>	Asst. Prof

Physics

Munn, A. M., BSc <i>Qu.</i> , MSc PhD <i>McG</i>	Prof
Hart, J., BSc PhD <i>Lond</i>	Prof
Love, G. R., MA <i>W Ont</i> , PhD <i>Tor.</i>	Assoc Prof
Ghosh, A. C., MSc <i>Calc</i>	Asst Prof
Cole, T. J. S., BSc(Eng) <i>Lond.</i> , PhD <i>Camb.</i> , BSc	Asst Prof
Fischer, G., DipPhys <i>E T H. Zurich</i>	Sessl Lectr
Romanowski, M., MA <i>Geneva</i>	Sessl Lectr

Political Science and Public Administration

MacFarlane, R. O., MA <i>Qu</i> , PhD <i>Harv.</i>	Prof
Rowat, D. C., BA <i>Tor</i> , AM PhD <i>Col</i>	Prof
MacKay, R. A., BA <i>Tor</i> , PhD <i>Prim.</i> , LLD, FRSCan	Visiting Prof
McRae, K. D., BA <i>Tor</i> , AM PhD <i>Harv</i> (on leave) Assoc	Prof
Anglin, D. G., MA <i>Tor.</i> , DPhil <i>Oxon</i> Assoc	Prof
Jewett, Pauline, MA <i>Qu</i> , PhD <i>Harv</i> (on leave) Assoc	Prof
Edmonds, D., BA <i>Tor</i>	Lectr

Willms, A. M., MA	†Sessl Lectr
Juvet, C. S., BComm <i>Qu</i> , MA	Sessl. Lectr
Grey, R., BA <i>Qu.</i> , MA <i>Tor.</i> , PhD <i>Lond</i>	†Sessl Lectr.
Armstrong, R. P., BA	†Sessl Lectr.
Roberts, P., BA <i>Alta</i> , MA <i>Alta.</i> & <i>Oxon</i>	†Sessl Lectr
Seaffie, J. H., BA <i>McM</i> , MA <i>Tor</i>	†Sessl Lectr

Psychology

Wake, F. R., BA PhD <i>McG</i>	Assoc. Prof
Wendt, R. A., MA <i>Alta</i>	Assoc Prof.
Donald, Nancy, MA DipEduc <i>N Z</i> , PhD <i>Mich</i>	Assoc. Prof
Breen, H. J., MA PhD <i>W Ont</i>	†Sessl Lectr
Laver, A. B., MA	†Sessl Lectr
Pimm, Miss June, MSPs <i>McG</i>	†Sessl Lectr
Blair, W. R. N., MA <i>Alta</i> , PhD <i>Ott</i>	†Sessl Lectr

Public Administration, see Pol. Sci.**Public Law**

MacFarlane, R. O., MA <i>Qu</i> , PhD <i>Harv</i>	Prof.
Henderson, G. F., QC, BA <i>Tor.</i>	†Sessl Lectr.
Cattasach, A. A., QC, BA <i>Manit</i> , LLB <i>Sask</i>	†Sessl. Lectr.

Religion

Read, L. M., MA <i>Tor</i>	Asst. Prof
Bowen, D. G., MA <i>Qu</i>	Asst. Prof.
Eckstein, S. L., BA BRE <i>Yeshiva</i> , MA <i>N Y.</i>	†Sessl Lectr
Baycroft, J. A., MA <i>Camb</i>	†Sessl Lectr

Russian

Gairaid, J. G., MA <i>Oxon</i>	Lectr.
Belkov, G., MA <i>Br Col</i>	†Sessl. Lectr.

Sociology

Porter, J. A., BSc(Econ) <i>Lond</i> (on leave) Assoc	Prof
Frumhartz, Muni C., BA <i>Tor</i> , AM <i>Col</i>	Asst. Prof.
McFarlane, B. A., MA <i>McG</i>	Asst. Prof
Burshtyn, H., MA <i>McG</i>	Lectr
Adler, K. P., MA PhD <i>Chic.</i>	†Sessl Lectr
McFeat, T. F. S., BA <i>McG</i> , PhD <i>Harv.</i>	†Sessl. Lectr
Portugal, A. H., BSc <i>McG.</i> , AM <i>Tufts</i>	†Sessl. Lectr.

Spanish

Forster, J. C., MA <i>Camb.</i>	Lectr.
Atienza, F., BT <i>Salamanca</i> , LicT <i>Innsbruck</i> , LicD <i>Rome</i> , PhD <i>Ott</i>	†Sp. Lectr.

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Asst. Librarian - Doris M Honeywell, MA *Qu*,
BLS *Tor* Accountant - A. B. Larose, BCom,

CA Student Affairs Adviser - N. D. Fenn, BS
MEd *Spungfield* Dir of Athletics - K. N.
Harris, BA BPHE *Qu.* Student Personnel

Officer Mrs Jean A Loates, BA Med Adviser. E L Davey, MD DPH Tor Information

Officer D J Horan, BJ Alumni Sec Shirley Gillespie, BJ

GENERAL INFORMATION

The univ (named after Sir Guy Carleton, governor-in-chief of British North America in mid-18th century) is non-denominational, co-educational and privately controlled. Conceived by a cttee. of the Ottawa YM C.A. in 1938, the univ had its beginning in 1942 when a group of interested citizens establd. the Ottawa Assocn for the Advancement of Learning. In that year evg classes of the 1st and 2nd univ yrs were opened under the name Carleton Coll. Both day and evg. curricula were expanded until, by 1949, they included full undergrad. courses in arts, sci, comm., journalism, pub admin and engin. A course leading to a grad dipl in pub. admin was added in 1952, and a sch. of pub. admin establd. in 1953, which in 1954 added a programme leading to the MA. Subsequently, a students' union, a library and a bldg. to house the sch. of pub. admin were added, and 130 acres of land acquired for devel. of a new campus. In 1952 the legislative assembly of the province of Ontario passed the Carleton College Act, enlarging and specifying the coll's univ powers. In the same yr the coll was made a member of the National Conference of Canadian Univs, and in 1953 a member of the A.U.B.C. In 1957 the coll was incorporated as Carleton Univ.

CONSTITUTION The univ corporation consists of 57 members. The bd of governors numbers 30, elected for 3-yr terms, one-third retiring each yr. Academic policy is governed by a senate composed of full profs of the fac and certain other members apptd by the bd of governors, as well as by a fac bd. composed of all full-time members of fac of rank of lectr or higher.

INCOME (1959-60) Total current income, \$1,300,000 (fees, \$486,500, endowment, \$18,000, provincial govt., \$400,000; federal govt., \$256,000, other gifts and grants, \$69,000; auxiliary enterprises, \$58,000, misc, \$12,500).

FACULTY AND SCHOOLS Fac of arts & sci (incl comm. and journalism), sch. of engin., sch. of grad studies, sch. of pub. admin. For dean and dirs see p 176.

UNIVERSITY PRECINCT The univ. is located on a 130-acre campus of great natural beauty on the Rideau river. Its premises consist of a sci bldg., a library (large enough to accomm. 80,000 vols) and an arts bldg. which forms the third side of the main court. The library also houses the admin offices of the univ. All these bldgs are connected by a tunnel. Construcn. began in 1961 on men's and women's residences, office and classroom extension for arts and sci, student Univ Centre (incl addnl cafeteria). Athletic facilities are also provided.

LIBRARY 51,500 vols. See also 'Univ Precinct', above.

LABORATORIES, ETC Biol, chem., engin., geol, lang., phys and psychol labs, audio-visual aids centre incl equipment for sound motion picture projection, film-strip and slide projection.

ADMISSION. See Appendix III.

FIRST DEGREES Day division—BA, BSc pass, 4 yrs from jr matric, hons 5 yrs., BA hons may be taken in classics, econ, Engl, French, German, hist, philos, pol sci, pub admin., sociol., BSc hons in appl phys, biol, chem, geol, maths, phys, maths and phys, BCom, BJ (journalism), 4 yrs from jr matric, BEng, 4 yrs after sr. matric or after 1st yr of BSc course. Evg division—BA, BSc, BCom, pass courses equivalent to those offered in day division but extending over a longer period of time.

The univ does not offer any correspondence courses or award any external degrees.

HIGHER DEGREES. Day division—MA in pub admin, a course of min 1 yr beyond full hons. standing. Also MA or MSc in biol., Canadian studies, chem, econ, engineering (aeronaut and elect), Engl, French, geol, hist., maths, phys, pol sci, psychol, sociol. PhD, at least 2 yrs full-time after MA or MSc. Currently available in geol and biol and other sci. subjs in sp cases. All grad. work open to grads of other univs. BJ, 1 yr after BA. Evg division—MA or MSc in certain areas listed above.

HONORARY DEGREE LL.D.

DIPLOMAS Pub admin, 1 yr. after appropriate bachelor's degree. Evg division—pub admin, equivalent of 1-yr. full-time course but usually taking longer because chiefly followed by pt-time students.

CERTIFICATE Pub service studies, equivalent of 1-yr full-time course (from jr matric) but usually taking longer because chiefly followed by pt-time students.

ACADEMIC YEAR Winter session mid-Sept. to mid-Dec; first wk of Jan. to first wk. of May.

SUMMER SESSION Evg classes in selected undergrad subjs are offered in a 14-wk. summer session—June, July and Aug. Certain day courses are also offered. No degree can be obtained by attendance at summer session courses only.

ADULT EDUCATION. Evg courses, provided for employed men and women seeking degrees and dipls, are open as well to those interested only in single subjects. In addition, extension courses, for which no academic credit is allowed, are offered at low cost to interested members of the public.

FEEES Day division arts, comm, journalism, pub. admin, sci, \$465 p a, engin, \$525 p a
Evg division \$85 per course Extension
courses: \$10-\$55 per subj.

PRINCIPAL 'OPEN' AWARDS offered to grads of Canadian sec schs entering the univ to read for a first degree 2 H M Tory entrance scholps, \$500 each p a, Union Carbide Canada Ltd undergrad scholp, \$500 p a until graduation, Internat Nickel Co scholp, about \$500 p a until graduation; E B Eddy scholps, \$600 p a until graduation, Parfield Oil Ltd. scholp, \$600 p a. until graduation, 4 Regional Entrance scholps, \$1600 each There is also a general bursary fund of \$7800 from which grants are made to students in need of financial aid

'OPEN' POSTGRADUATE AWARDS 2 scholps of \$1000 each and 2 of \$750 each are available for study in course leading to grad dipl in pub admin Supplementary bursaries may also be provided Fellowships, varying from \$1000 to \$1500, are offered for study toward MA in pub admin

ATHLETICS Gymnasium and playing fields of Lansdowne Park, gymnasia of near-by secondary schs; playing fields on new campus for intramural sports, thoroughly equipped field house.

MILITARY TRAINING Preparation for commissioned rank in the active or reserve forces of the Royal Canadian Navy, the Canadian Army or the

Royal Canadian Air Force is made possible by membership in the univ naval trg division, the Canadian officers' trg corps or the R C A F. reserve univ. squadron Trg is on a pt-time basis during the academic session, full-time during the summer months

STUDENT SERVICES Under the supervision of the univ med adviser, a student health service is provided Also available are counselling and guidance facilities and a student placement service The univ has no dormitories of its own but residences will be built for the fall of 1962 A housing registry is maintained through which rooms or rooms and board may be located in near-by homes. Meals and snacks are served in a cafeteria in the sci bldg Snacks also available in canteen in library bldg

ALUMNI ASSOCIATION An alumni assoc. was formed in 1949. Grads are eligible for full membership.

PUBLICATIONS By the univ—*Calendar*, *Bulletin* and summer session announcement, all annually; *Scholarships Announcement* By the students' assoc.—*The Carleton*, weekly newspaper, *The Raven*, annually; *Directory of Students*, annually

UNIVERSITY BOOKSHOP Books for univ courses may be purchased from the Book Store located next to registrar's office

THE YEAR 1960

PRINCIPAL BENEFACTIONS Estate of Linda Harris, \$30,560 for instrum and res equipment in cellular physiol

DEATHS Dr J P Young (asst prof, French)
HONORARY DEGREES LL.D.—Dr C T Bissell, pres, Tor, G G Crookery, exec sec, Canadian Teachers' Federation, Y. Karsh, photographer, Dr Alice E Wilson, geologist

Statistics

STUDENT NUMBERS, 1960-61
(as at Dec. 31, 1961)

	Full-Time	Part-Time
Men	880	841
Women	277	305
Total	1157	1146

Distribution by Faculties (day division) Arts, 531; comm, 103; engin, 119, journalism, 63,

pub admin, 24, sci, 312, special, 5. Total 1157

Included in the figures above are —
Postgraduate students (day division), 56
New admissions (day division), 559
Students from other countries, 66 (Countries from which largest numbers came: W Indies Fed, 16, Hong Kong, 8, Fed. of Malaya, 6)

DEGREES AWARDED (1959-60) Arts BA, 58, BA (hons), 9, MA, 2 Comm. BCom, 20 Journalism BJ, 17 Sci BSc, 28, BSc (hons), 3

DIPLOMAS AWARDED (1959-60) Pub. admin., 8

CERTIFICATES AWARDED (1959-60) Engin., 1, pub service studies, 7

DALHOUSIE UNIVERSITY

Founded 1818

with which is affiliated the University of King's College (see p 189)

Postal Address . Halifax, Nova Scotia, Canada

Cables and Telegrams Dalhousie University, Halifax

Telephone (Registrar) Halifax 423-8261

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[* = also member of Fac of Grad Studies, † = Part-Time, (K) = King's Coll]

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Biblical Literature	Atheiston, J P, MA <i>Oxon</i> Lectr.
Corston, Rev J B, PhD <i>Edin</i> , DD <i>Pine Hill</i> , MA †Sp Lectr	Commerce
Biochemistry, see Medicine	Cumming, R S, MA <i>McG</i> , BA Black Prof
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*Hayes, F R, PhD DSc <i>Liv</i> , MSc, FRSCan Campbell Prof	Roscoe, D A, BA BCom †Lectr
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*Trost, W R, BSc <i>Alta.</i> , PhD <i>McG.</i> Prof.	Dewis, G. M., DDS, FACD †Prof
Ryan, D E, BSc <i>New Br</i> , MA <i>Tor</i> , PhD <i>Lond.</i> Assoc Prof	Eaton, H. M., DDS, FACD †Prof
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 MEIC Assoc Prof
 Vatchar, R. L., BE(Civil) *N.S.T.C.*,
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 MEIC †Sp Lectr

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 *Sprott, S. E., MA *Melb.*, BD *Melb.*
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 MA *New Hampshire*, PhD *Yale* Asst Prof
 Cannon, A. G., BA *Lond.* Lectr (K)

Fine Arts

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 Milligan, G. C., MSc PhD *Harv.* Assoc Prof
 Nota, D. J. G., MSc *Ley.*, PhD *Utrecht*
 1961-62 Visiting Assoc Prof

German

Josenshans, Mrs. Gerta Asst Prof
 Lectr

Hebrew

Clarkson, Rev. Canon W. W., BSLitt *K.C.N.S.*
 †Sp. Lectr
 Hardie, Rev. J. B., MA BD PhD *Glas.*
 †Sp. Lectr

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 LLB Bennett Prof
 Nicholls, G. V. V., QC, BA BCL *McG.* Prof
 Read, H. E., OBE, QC, LLM *SJD Harv.*,
 BA Hon DCL *Acad.*, LLB Weldon Prof
 Beeson, Eunice W., AB *Colorado*,
 SB *Simmons*, LLB *Northeastern*
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 Charles, W. H. R., BA *SirG Wms.*,
 LLM *Harv.*, LLB Asst. Prof.
 Harris, E. C., LLM *Harv.*, BCom LLB
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F.X., Col & *Dal.*, JUD *Br. Col.*, BA
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 MacQuarrie, Hon. J. H., BA Hon DCL
Acad., LLB †Sp. Lectr

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†Lectr

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 Church, Jean G., AM *Col*, BSc Asst Dir
 Potter, Thelma I., BN *McG.*, MSc *Boston* Lectr
 9 Lectrs †, 7 Instrs †

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- *Page, F. H., MA *Tor*. Prof. (K.)
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Public Affairs, Institute of

- *Henson, G., BA *Acad* Dir. of Inst.
 Maclean, D. F., BA *Acad*, MA Asst. to Dir of Inst
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 Stewart, Mrs Lucille, MSc *McG* Lectr

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 †Assoc. Prof

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Murray, A. E, BA MD CM †Lectr

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 MB ChB *Edin*, FRCPCan †Assoc Prof
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 Howell, D R S. †Assoc Prof
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 FACP †Assoc Prof
 Read, H. C, MD CM †Assoc Prof
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 (Rheumatism & Arthritis) †Asst Prof.
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 MacDonald, H N A, MD CM,
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 MacGregor, H I, BSc MD CM †Instr.
 MacIntosh, J. W., Jr, BSc MD CM †Instr

Still, H. C, MA MB BChir *Camb* †Instr
 Young, C H, MD CM †Instr

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 Grant, K M, BSc MD CM †Assoc. Prof
 Perlman, I A, BSc MD CM, FACS
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 Assoc Prof
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 PhD *Birm*, MRCP Assoc Prof
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 BSc Hon DSc *Acad* †Asst Prof.
 Read, H C, MD CM †Asst. Prof.
 Handforth, C P, BSc MB BS *Lond* †Asst Prof.
 Sorger, K, MD *Graz* Asst Prof
 Smith, R L, BA MD CM *McG* †Lectr
 MacKenzie, A, MD CM Instr

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*Aldous, J. G, MA *Br Col*, PhD *Tor* Prof
 Reynolds, A K., BA MSc PhD *W.Ont*
 Assoc Prof
 *Szerb, J C, MD *Munch* Assoc Prof.

Physiology

- *Weld, C. B., MA *Br Col*, MD *Tor.*,
FRSCan Prof.
*Kaplan, J. G., AB *Coll of City of N.Y.*,
AM PhD *Col.* Assoc Prof
Josenhans, W., MD *Tubingen* Assoc Prof
Cudkowicz, L., MD *London*, MRCP Assoc Prof.

Preventive Medicine

- *Stewart, C. B., DrPH *Johns H*, BSc MD CM
(Epidemiol) Eddy Prof
Morton, A. R., MD CM MPH *Johns H*
Mackenzie, D. J., MD CM, FRCPCan Assoc Prof
Beckwith, C. J. W., DPH *Tor.*, BA MD CM
Ross, Mrs. Elizabeth D., BA *Acad.*, MD
CM, FRSCan Lectr

Psychiatry

- *Jones, R. O., BSc MD CM Prof
MacKay, R. W. M., MD CM Assoc Prof
Hall, H. K., MD CM Assoc Prof
Hirsch, S., BSc MD CM Assoc Prof
Dunsworth, F. A., MD CM Assoc Prof
Nicholson, J. F., BSc MD CM Assoc Prof
Weil, R. J., MD *Prague* Assoc Prof
Murchison, A. J., MD CM Assoc Prof
Pottle, C. H., MD CM Assoc Prof
Prosser, R. R., MD *Edn* Assoc Prof
Husch, Mrs. Davis, BA *Vassar*,
MD *Johns H* Instr
Shane, A. M., BSc MD CM Instr

Radiology

- Manchester, J. S., MD CM Prof
Stapleton, J. E., MB BS *Syd*
(Radiotherapy) Assoc Prof.
James, R. H., MA MD *Camb*, MRCP Assoc Prof
Smith, R. L., BA MD CM *McG* Assoc Prof
Jones, C. M., MD CM, FACS Assoc Prof
Skinner, N. S., MD CM *McG* Assoc Prof
Fulbee, J. F., MB BS *London* Assoc Prof
Davis, G. E., MD CM Assoc Prof
Cunningham, R. M., MD *Tor* Lectr
Shaw, A. J., MD CM Instr
Grantmyre, E. B., MD CM Instr
Kereszturi, J. J., MD *Cluj* Instr

Surgery and Clinical Surgery

- MacKenzie, I., MBE, MB ChB *Edn*,
FRCSed Prof, Hd of Dept.
Kinley, C. E., MD CM, FRSCan, FACS Assoc Prof
Noble, J. A., OBE, BA *Acad.*, MB ChB *Edm*,
FRCSed Assoc Prof
Ross, E. F., OBE, BSc MD CM,
FRSCan, FACS Assoc Prof
Murphy, A. L., BA MD CM, FACS Assoc Prof

§ Also member of Fac. of Arts and Sci

- Stevenson, W. D., MD *Tor*, FRSCan
(Neuro-Surg) Assoc Prof
Acker, J. C., MD CM *McG* (Orthoped) Assoc Prof
Merritt, J. W., MD CM, FRSCan Assoc Prof
Miller, B. E., BA *St F X*, MD CM
MCh(Orth), FRCSed (Orthoped) Assoc Prof.
House, W. K., MD *Manit*, FRCSed Assoc Prof
Nonamaker, E. P., MD CM, FRSCan Assoc Prof.
Coady, B. K., BA MD CM, FACS Assoc Prof
Bethune, G. W., BSc *Acad.*, MD CM,
FRSCan Assoc Prof
Chaiman, J. H., MD CM, FRSCan Assoc Prof
Pollett, W. E., BA MD CM, FRCSed, Instr
FRSCan Lectr
Stewart, H. L., MD CM Lectr.
Dolan, F. G., BSc *St F X*, MD CM,
FRSCan Lectr
Tucker, H. H., MD CM, FRSCan (Neuro-Surg) Lectr.
LeBlond, G. J., MD CM Lectr.
Barton, F. J., MD CM, FACS Lectr.
Purves, J. K. B., MD CM, FRSCan Lectr.
Ross, J. F., MD CM, FRSCan Lectr.
Marshall, A. M., MD CM, FRCSed Instr
Covert, G. L., BSc MD CM Instr
Auld, C. R. B., BSc *Acad.*, MD CM *McG*. Instr
Casey, M. T., MD CM, FRSCan Instr.
Myrdren, J. A., BSc MD CM Instr.
Sinclair, A. M., MD CM, FRSCan Instr

Urology

- Gosse, C. L., BSc MD CM, FACS Prof
Mack, F. G., MD CM, FRSCan Assoc Prof
Ernst, W. A., BSc MD CM Assoc Prof
Reardon, C. H., MD CM Instr
MacGregor, H. I., BSc MD CM Instr

Medical Postgraduate Studies

- Steeves, L. C., BA *Mt All*, MD CM *McG*,
FRCPCan Dir.

GRADUATE STUDIES

(For other members of Fac, see those marked *
under sep subjects, above)

- §Beach, H. D., BA *Sask & Oxon.*, PhD *McG*
(Psychol) Assoc Prof.
§Coons, W. H., BA *Alta*, PhD *Tor* Assoc Prof
Young, E. G., BA *MSc McG*, PhD *Camb*,
FRSCan (Biochem) Sp. Lectr.
§Fergusson, C. B., DPhil *Oxon*, BA
(Hist) Assoc Prof., Sp Lectr
Henson, G., BA *Acad.* (Pub Admin.) Prof
Campbell, N. J., PhD *Br Col* Hon. Lectr.
Trites, R. W., PhD *Br. Col* Hon. Lectr.

ADMINISTRATIVE AND OTHER STAFF

Dir., Inst of Public Affairs · G. Henson, BA
Acad Dir, Inst of Oceanography, F R Hayes,
 PhD DSc *Law*, MSc, FRSCan. Dir., Sch. of
 Nursing · E. A. Elceta MacLennan, AM Col.,
 BA. Dir., Public Health Clinic · C B Stewart,
 DrPH *Johns H*, BSc MD CM Dir., Students'
 Health Service · W A Murray, MD CM Univ
 Engineer · A F Chisholm, BE(Civil) *N.S.T.C*
 Sec., Fac. of Arts and Sci. · A. S. Mowat, MA
B.Ed. Sec., Fac. of Law · W A. MacKay,
 BA LL.M. Sec., Fac. of Med. · C B. Weld,

MA BSc Col., MD *Tor*, FRSCan. Sec., Fac. of
 Dent · R H Bingham, DDS Sec., Fac. of
 Grad. Studies · W J Chute, BSc *Acad*, MA
 PhD *Tor* Warden, Shurreff Hall (Women's Resi-
 dence) · Helen C Reynolds, BSc. Hd., Men's
 Residence · G H MacLean, BA *Oxon*, PhD
Duke, MA Dir., Alumni Affairs · B. G. Irwin,
 CD, BCom Dir., Phys. Educn for Men ·
 D C Dargie, BS *Springfield* Accountant · D N
 Borgal

ASSOCIATED AND AFFILIATED INSTITUTIONS

UNIVERSITY OF KING'S COLLEGE, *see p 189*

PINE HILL DIVINITY HALL, Halifax (tel. 3-6939) Founded in 1820 as a Presbyterian theol coll, is now under United Church of Canada. Classes of 1 full yr in theol are recognized as 1 yr for the BA. Students may complete the div course at the Hall and take the BA in 6 yrs. Confers the degree BD Principal—Very Rev C M Nicholson, BA DD LL.D. 4 other Profs

KING'S COLLEGE DIVINITY SCHOOL (*see p 189*).

The classes and exams in div. are recognized on the same terms as those of Pine Hill Div. Hall

MARITIME CONSERVATORY OF MUSIC, Halifax (tel. 5-4343). Courses recognized for BMus and LacMus of Dalhousie. Director— . . .

MARITIME COLLEGE OF PHARMACY, Halifax (tel. 423-6735). Founded 1911. Courses recognized as part of the quals. for BSc (Pharmacy) at Dalhousie (*Note* Negotiations are at present under way to incorporate the Maritime Coll of Pharmacy in the univ as a fac. of pharmacy)

GENERAL INFORMATION

Dalhousie Coll., founded in 1818 by the ninth Earl of Dalhousie, has been discharging univ functions since 1863 when it was reorganized and roofed with a staff of 6 profs. From 1879 devel was rapid, helped by the benefactions of G. Munro of NY, A. McLeod of Halifax and Sir Wm Young. In 1883 the fac. of law was establd, and in 1906 pure sci united with arts to form the fac. of arts & sci. Appl sci was replaced by the fac. of engin, which was later reduced to a dept by agreement with other maritime univs when the NSTC opened for professional teaching. In 1911 the fac. of med. and in 1912 the fac. of dent assumed full teaching duties. The Maritime Coll. of Pharm was given quarters in the univ in 1911. The fac. of grad studies was establd in 1949.

In 1912 \$400,000 was collected for an addnl site (40 acres) and bldgs towards which Andrew Carnegie gave \$40,000. Other gifts from the Carnegie Corporation and the Rockefeller Foundation permitted expansion of facilities for the med sch after 1918. In 1923 the Univ. of King's Coll, in assocn. with Dalhousie, was given a site on the new campus (*see below*). The International Commission for the Northwest Atlantic Fisheries accepted the univ's invitation to establish its permanent headquarters in Dalhousie in 1953. A new arts and admin bldg. was opened in 1952, and the O E Smith wing of the Macdonald memorial library, containing the Kipling room, in 1956. The Sir James Dunn sci bldg was

formally opened in Oct. 1960. A new men's residence with accomm for 150 students opened on Jan 1, 1961. About half of total cost of \$1,600,000 was provided by Canada Council.

CONSTITUTION The bd of governors is the supreme governing body of the univ. Appts to it are made by the governor-in-council on the nomination of the bd. The governors have the management of the funds and property of the univ, the power of appointing the pres, profs, and other officials and of determining their duties and salaries, and the general oversight of the work of the univ. The senate consists of the pres and profs. To this body are entrusted, by statute, the internal regns of the univ, subject to the approval of the governors. All degrees are conferred by the senate. The facs consist of the members of the teaching staff in each of the 5 main domains of study in which courses can be pursued, namely, arts & sci, law, med., dent and grad. studies. To them are entrusted by the senate, subject to its approval, supervision of teaching, preparation of regns governing courses of study, and recommendation of suitable candidates for prizes, scholshps., dipls and degrees.

INCOME (1959-60) \$2,895,333 (student fees: 22.5 per cent., endowments, 18.7 per cent.; govt grants, 32.3 per cent.; individuals, campaign receipts; foundations, etc., 26.5 per cent.)

FACULTIES AND DEANS *Arts & sci.*, H. D. Hicks, *dent.*, Prof J D McLean, *grad. studies*,

... , law, Prof H E Read, med, Prof C B Stewart (prev med) Women, Helen C Reynolds.

UNIVERSITY CAMPUS The univ is housed on 2 principal campuses; the older ('Forrest') is bounded by University Ave, Robie, College and Carleton Sts. It includes biol, dent, med, med scis, oceanog, pub health clinic and med and dent library. Studley Campus, bounded by Coburg Rd, Oxford, South and LeMarchant Sts, includes arts and admin. bldg, the Sir James Dunn sci bldg (engin, geol and phys), The univ. library, law sch and library, chem, educn, pharmacy, women's and men's residences, gym, rink and playing field. Bldgs. of the Univ of King's Coll, the prov archives of NS and the regional lab of the Nat Res Council of Canada are situated in Studley Campus.

LIBRARIES Arts & sci—112,910 books and bound periodicals; med & dent—27,917 books, journals and pamphlets, law—30,000 books and bound journals, nursing—1425. **PUBLIC ARCHIVES OF NOVA SCOTIA** (located on univ campus), comprising MSS., newspapers, historical pictures and res libraries.

LABORATORIES Anat, biochem, biol, chem., engin., geol., histol, pathol, pharm, phys, physiol.

INSTITUTE OF PUBLIC AFFAIRS, in which profs of the facs of arts, law and med co-operate. The res carried out under its auspices is mainly concerned with problems of municipal govt and social services. Associated with the inst are the Dalhousie Bureau of Indust Relns, the Dalhousie Labour-Univ Cttee and the Municipal Consulting Cttee.

INSTITUTE OF OCEANOGRAPHY, establd with aid of grants from the Natnl. Res Council of Canada (\$90,000 in 1959), provides courses leading to MSc and PhD.

TEACHING HOSPITALS *Teaching units.* (a) Victoria General H, Halifax Children's H, Grace Maternity H, Halifax Inf, Canadian Forces H., and affiliated hosps. (b) St John General H. and affiliated hosps. *Affiliated hosps* Camp Hill H, City of Sydney H, Aberdeen H, P.E.I.H., Victoria Pub H, Moncton General H, St John's General H.

ADMISSION. For admission to univ courses in arts, sci, comm, engin, nursing, pharmacy, music, see Appendix III.

LLB—as for arts & sci, and completion of 3 full yrs' work of a course leading to a BA, BSc or BCom degree, MD—as for arts & sci, and completion of the following 15 univ classes: Engl 1 and 2, maths 1, chem 1, 2, 4, phys 1, biol 1, zool 2, hist 1, four others from depts. of Engl, classics, hist., mod. langs., philos., psychol., econ, pol. sci. and maths, and one other from these depts. or from sci.; DDS—as for arts & sci, and completion of the following 10 univ. classes: Engl 1, maths. 1, chem. 1, 2, 4, phys 1, biol. 1,

zool 2, and two electives from classics, econ, Engl, hist, mod langs, philos, pol. sci, psychol.

FIRST DEGREES 4 yrs. from jr matric.—BA, BSc, BCom, BMus, BN—on completion of 15 univ. classes in fac of arts & sci plus clin period of 30 mos. in hosp; 3 yrs, following certain univ classes—LLB, 4 yrs—DDS, 5 yrs—MD.

In addn to the ord course in arts & sci, there are hon courses (also 4 yrs.) in: biol, chem, classics, econ & sociol, Engl lang & lit., geol., hist, maths, mod langs, philos., phys, pol sci, psychol.

Evening classes are offered; some of these give academic credit in arts to qualified students.

HIGHER DEGREES LLM. candidates must hold LLB with high standing from Dal or another approved law sch, minimum of 1 yr's res required. MA or MSc given on successful completion of 2-yr course (minimum of 1 yr. for approved hon grads) by a BA or BSc of approved univ for courses in bacteriol, biochem, biol. (bot & zool), chem, classics, econ., Engl lang. & lit, French, geol, German, hist, maths, pathol, pharmacol., philos, phys, physiol, pol sci., psychol. BEd is given on 1-yr. course, after BA, BSc or BCom. PhD (biol scis, chem, oceanography and phys) given on completion by BA or BSc of res and approved course of at least 3 yrs.

HONORARY DEGREE. LL.D

The univ does not award EXTERNAL DEGREES.

DIPLOMAS Engin, 3 yrs from jr matric (enables students to complete a degree course at N S T C, McG, Qu, Tor or certain other instns after a further 2 yrs), pharm, ordinary, 2 yrs, educn, 2 and 3 yrs from jr matric, LicMus, 3 yrs, nursing, 1 yr; psychiatry, 3 yrs from MD and approved hosp practice, grad-dipl in clin psychol, 1 yr following MA.

STUDY LEAVE Sabbatical leave for study and res is available to permanent full-time members of the teaching staff.

FEES Tuition arts or sci, \$340-\$364 p.a for 5 subjects (lab fees addnl., \$15-\$30 per subject), comm, for 5 subjects, \$340 p.a, law, \$380 p.a., med., \$500 p.a. for first 4 yrs, \$380 in final yr, dent, \$450 p.a incl use of microscope and dental engine, dipl course in engin., \$376-\$456 p.a., grad studies, first yr \$205, later yrs \$80, thesis only \$41, sp students at regular rates per class. Other fees incidental, \$44.50, lab. deposits when required, \$30 max.

ACADEMIC YEAR Sept 25-May 17 (approx) for arts and sci and grad facs; Sept 5-May 31 (approx) for med. & dent facs and dipl courses in nursing, Sept 12-May 31 (approx) for law fac.

PRINCIPAL 'OPEN' POSTGRADUATE AWARDS. Grad scholps and teaching fellowships are open to selected honrs grads of British and U.S. univs. Sp fellowships in chem, phys and Engl. Natnl. Res. Council offers postdoctorate fellowships in biol, chem and phys (one each).

LOAN AND AID FUNDS for students have been instituted

STUDENT RESIDENCES. For women: Shirreff Hall, Halifax (tel. 422-2545) (100 students), charges approx \$550 per session. For men: residence accomm. 150, charges approx \$588 per session. Catering service for all students

STUDENTS' HEALTH SERVICE AND PHYSICAL TRAINING. All new students are required to submit to med. exam. at beginning of session. The students' health service provides for this exam. ~~and~~ for med. services for minor ailments. A modern gymnasium and a rink, with artificial ice, provide adequate facilities for recreation and phys. trng.

ALUMNI ASSOCIATION Office with permanent

sec and dir in arts and admin bldg. *Publican Alumni News* (quarterly)

PUBLICATIONS *Calendar* (May), *Annual Report* (Aug); *Gazette* (Oct-March); *Dalhousie Review*, quarterly *An Introduction to the History of Dalhousie* (McCurdy Printing Co., Halifax, 1938). See also 'Dalhousie University Press', below.

DALHOUSIE UNIVERSITY PRESS (founded 1957), through a cttee. and in conjunction with printers and other publishers, undertakes publication of works relating to the univ. Publications incl. *George Munro, the Publisher* (1957) and *A Bibliographical Catalogue of the Works of Rudyard Kipling* (Dal Univ. Press and Univ. of Tor Press, Tor., 1959, \$20).

THE YEAR 1960

PRINCIPAL BENEFACTIONS Sir James Dunn Foundation, \$1,038,251; Canada Council, \$316,985

(Total value of all benefactions received, excluding govt grants \$1,768,200 approx)

RETIREMENTS Prof W R Maxwell (econ); Prof. H R Theakston (univ. engin.)

RESIGNATIONS W J Archibald (dean, fac of arts & sci.), G P Giant (philos.); N A Kerenyi (pathol.), A M Kinghorn (Engl.); C. L. Lambertson (Engl.), D G Lochhead (librarian), A D MacDonald (phys.), F J Moya (biochem & med. res.), Dr J W Rogers (ped.), A T Stewart (phys.), L T Threadgold (anat.).

DEATHS Dr. J Cameron (emer. prof. of anat.), Dr W. G. Colwell (clin. obstet. & gynæcol.), Dr H D O'Brien (surg.)

HONORARY DEGREES LL.D.—Dr. J S Bagnall, dean emeritus, fac of dent, Dal; Prof P M S Blackett, dean, Imperial Coll, Lond; Sir John D Cockcroft, master, Churchill Coll, Camb; T W Eadie, pres, Bell Telephone Co., Ltd, Montreal; W M Ewing, prof of geol, Col; J S Foster, Rutherford prof of phys & dir of Radiation Lab., McG; Prof C J Gorter, dir, Kamerlingh Onnes Laboratorium, Ley; L B Hannon, principal, Queen Elizabeth High Sch, Halifax; G P Hennessey, principal, Regional High Sch, Amherst, N.S.; G Herzberg, dir, pure phys div, NRC of Canada, Ottawa; W F James, consulting engineer & geologist, Toronto; J H L Johnstone, George Munro prof of phys., Dal; W B Lewis, vice-pres, Atomic Energy of Canada Ltd., Chalk River; H Margenau, prof of phys. & philos, Yale,

Rev J W A Nicholson, alumnus, Hon G C Nowlan, min of national revenue, Ottawa; L Pierce, former managing editor, Ryerson Press, Toronto; G E Wilson, George Munro prof of hist, Dal.; A H Zimmerman, chairman, Defence Res Bd, Ottawa.

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1442	51
Women	534	31
Total	1976	82

Distribution by Faculties *Arts & sci.*, 1425; *dent*, 54; *grad studies*, 79; *law*, 104; *med*, 323; *nursing*, 73 Total 2058

Included in the figures above are—

Postgraduate students, 129

New admissions, 735

Students from other countries, 219 (Countries from which largest numbers came U.S.A., 78; W Indies Fed. & Bermuda, 68).

DEGREES AWARDED (1959-60). *Arts BA* (hons), 13; *BA*, 48; *MA*, 8. *Comm. BCom*, 23; *Dent DDS*, 17; *Educn BED*, 40; *Law LLB*, 31; *LLM*, 2; *Med MD*, 50; *Sci BSc* (hons), 6; *BSc*, 36; *BSc(EngnPhys)*, 2; *BNSc*, 1; *MSc*, 8; *PhD*, 2

DIPLOMAS AWARDED (1959-60) *Educn jr dipl*, 6; *sr dipl*, 3; *engin*, 24; *pharm.*, 7; *pub health nursing*, 24; *teach in schs of nursing*, 11

UNIVERSITY OF KING'S COLLEGE*

Founded 1789, Royal Charter 1802

Postal Address: Halifax, Nova Scotia, Canada

Cables and Telegrams: University of King's College, Halifax, Nova Scotia

Telephone: Halifax 423-7497

PATRON—THE ARCHBISHOP OF CANTERBURY

VISITOR—THE LORD BISHOP OF NOVA SCOTIA

CHAIRMAN OF THE BOARD OF GOVERNORS—Rt. Rev. R. H. WATERMAN, BA BD *Bishop's*, Hon. DD

CHANCELLOR—H. R. MILNER, QC, LLB *Dal.*, Hon. DCL *Mt All.*, Hon. LLD *Alta. & Dal.*, BA Hon. DCL

PRESIDENT AND VICE-CHANCELLOR—Rev. Canon H. L. PUXLEY, MA *Oxon & Yale*, LTh DD *Trin Coll Tor*

DEANS—DIVINITY—Rev. Canon H. L. PUXLEY, MA *Oxon & Yale*, LTh DD *Trin Coll Tor*; DEAN OF MEN—J. P. ALBERTON, MA *Oxon*; DEAN OF WOMEN AND REGISTRAR—Mrs. WARRENA POWER, BSc *Dal*

TREASURER—F. A. LANE

SECRETARY—E. D. HORLOCK

LIBRARIAN—H. S. GRANTER, BA *Dal.*, AM *Harv*

BURSAR—C. FOX

TEACHING STAFF

ARTS AND SCIENCE

(On King's Foundation, in association with Dalhousie University)

Classics	Hebrew
Atherton, J. P., MA <i>Oxon</i>	Clarkson, Rev. Canon W. W., BSLatt Lectr.
Economics and Sociology	History
Uhlir, F., PhD <i>Prague</i>	Granter, H. S., BA <i>Dal.</i> , AM <i>Harv.</i> Asst. Prof.
Clairmonte, F. F., DEcon <i>Geneva</i>	Asst. Prof.
English Language and Literature	Mathematics
Dawson, R. MacG., MA <i>Tor.</i> , BSLatt <i>Oxon.</i>	Heighton, E. L., BSc MA <i>Dal</i> Asst. Prof.
Cannon, A. G., BA <i>Lond</i>	Psychology
Asst. Prof.	Page, F. H., MA <i>Tor</i> Prof.
Lectr.	

DIVINITY

Church History	English Bible
Hibbitts, Rev. J. B., MA <i>Dal.</i> , STM <i>General Theol Sem (N.Y.)</i> , DPhil <i>Oxon</i> , BSLatt Prof	Hibbitts, Rev. J. B., MA <i>Dal.</i> , STM <i>General Theol Sem (N.Y.)</i> , DPhil <i>Oxon</i> , BSLatt Prof
Puxley, Rev. Canon H. L., MA <i>Oxon & Yale</i> , LTh DD <i>Trin Coll Tor</i>	Stokoe, Rev. R. J. R., BSc BA DipTh <i>Durh</i> Assoc. Prof.
Stone, Rev. C. W. F., BA BD	
Asst. Prof.	
Dogmatic Theology	Greek Bible
Woodhouse, Rev. H. F., BA HDipEd	Hibbitts, Rev. J. B., MA <i>Dal.</i> , STM <i>General Theol Sem (N.Y.)</i> , DPhil <i>Oxon</i> , BSLatt Prof
DD <i>Dub.</i> Prof.	

* Member of the Association of Universities of the British Commonwealth

Hebrew and New Testament Greek		Pastoralia	
Hibbitts, Rev J B, MA <i>Dal</i> , STM <i>General Theol Sem (N.Y.)</i> , DPhil <i>Oxon.</i> , BSLatt Prof		Stokoe, Rev R J R, BSc BA DipTh <i>Durh</i>	Assoc Prof
Liturgics		Philosophy of Religion	
Stone, Rev C W F, BA BD	Assoc. Prof	Stone, Rev C W F, BA BD Uhlir, F., PhD <i>Prague</i>	Assoc Prof Sp Lectr.
JOURNALISM			
McCleave, R J, BA LLB	Chairman of Bd, Dir of Studies	Casey, Mary, BA March, W., BA	Lectr Lectr.
Browne, W, BA	Lectr		

ADMINISTRATIVE AND OTHER STAFF

Public Relations Officer P R. Doig, BA
BComm *Dal* Asst. Librarian. Zaidée A Harris
Supervisor of Domestic Staff. Mrs. Ethel M Desborough.

ASSOCIATED AND AFFILIATED INSTITUTIONS

DALHOUSIE UNIVERSITY, *see* p 181

HALIFAX LADIES' COLLEGE, Halifax (tel 423-7920) Students who have completed the regular course and received the matric. dipl are admitted to the arts or sci course without further exam. Principal—Marion Dauphinee, BA.

HALIFAX SCHOOL OF JOURNALISM, Univ of King's Coll, Halifax, N.S. (tel 423-7497) The sch is a jt undertaking of Univ of King's Coll, St Mary's Univ, Mt. St Vincent Coll, the Halifax *Chronicle-Herald* and radio station CJCH. The sch, which has its own bd of governors with 2 reps from each instrn., grants a

dipl in journalism 3 yrs after jr matric Dean—R J McCleave, BA LLB For staff, *see above*

MARITIME SCHOOL OF SOCIAL WORK (tel Halifax 423-8162) Approved grads of Univ of King's Coll and other recognized univs. who have completed 2 yrs. professl trg at the sch are granted the degree of master of social work (MSW) by Univ of King's Coll Dir—L. T Hancock, MA *Chc*, BSW *McG*

PRINCE OF WALDS COLLEGE, Charlottetown, P E I (tel 894-7319) Students holding certain certs. of the coll enter the 1st or 2nd yr of the BA course at Dalhousie-King's Principal—F. MacKinnon, BA *McG*, MA PhD *Tor.*, LLD *Neto Br*

GENERAL INFORMATION

Opened in 1789 at Windsor, N.S., the univ. was establd by provincial statute and granted a royal charter by King George III in 1802 In 1923 King's removed to Halifax and became associated with Dalhousie Univ, as far as arts and sci are concerned The academic facilities in arts and sci are shared by the students of both univs. for the time being, but King's retains complete control of her div sch, as well as of her present endowments, admin. of residence and all internal matters Under the terms of the agreement between Dalhousie and King's the univ was re-establd. in Halifax by means of private subscriptions and with the financial aid of the Carnegie corporation, which endowed the teaching of liberal arts

CONSTITUTION The univ is governed by a bd. consisting of the bishops of the dioceses of N.S. and Fredericton, the pres and treasurer of the univ., *ex officio*, together with 8 members

elected by the alumni assocn, 6 elected by the diocesan synods and 8 co-opted by the bd

INCOME (1960) Total income, \$265,000 (govt grants, 12 per cent, other grants (incl diocesan), 9 per cent, endowment, 46 per cent, fees and residence charges, 33 per cent.)

FACULTIES AND DEANS, *see* p 189

LIBRARY. About 40,000 vols., 40 incunabula and a number of illuminated medieval MSS. Particularly rich in books of 18th cent. Specializes in arts and div Fine collection of united empire loyalist china.

ADMISSION. *See* Appendix III

FIRST DEGREES (of Dalhousie Univ). Courses (4 yrs. from jr matric.) provided for BA (pass, hon.), BSc (pass, hon.). A degree with hon. may be obtained in biol., chem., classics, econ. &

sociol, English lang & lit, geol, hist, maths, mod langs, philos, phys, pol sci, psychol

HIGHER DEGREES (awarded by K.C.N.S.) BSLitt (bachelor of sacred letters), 3 yrs after BA or BSc. MSW, 2 yrs at Maritime Sch of Soc Work (*see above*) after BA or BSc. BD, 3 yrs. after BA on recommendation of bd of examiners of General Synod of Anglican Church of Canada

Students wishing to read for MA or MSc must transfer to Dalhousie Univ

HONORARY DEGREES DD, DCL, DCnL

The Univ does not award EXTERNAL DEGREES

DIPLOMAS, ETC. LTh, 3 yrs after BA. Testamur in theol, 4 yrs. STh (scholar of theol), on recommendation of bd. of examiners of General Synod of Anglican Church of Canada. AKC(NS), equivalent of 2 yrs.' postgrad. study after LTh or STh. Journalism, 3 yrs. at Halifax Sch. of Journalism (*see above*) from jr matric.

FEES Tuition, \$325-\$375 p a Residence, \$550 p a

ACADEMIC YEAR Oct to June

ENTRANCE SCHOLARSHIPS 7 foundation scholps. (\$800 each), 6 chancellor's scholps. (\$1600 each).

STUDENT RESIDENCES. For men residence for 105 students, for women Alexandra Hall (dean, Mrs Waiena Power), 33 students

MILITARY TRAINING Canadian officers' trg. corps, univ. naval trg div, royal Canadian air force div

STUDENT HEALTH Medical services in residence. *See also* Dalhousie Univ.

ATHLETICS Facilities for men. ice hockey, basket-ball, soccer, curling, badminton For women ground hockey, basket-ball, badminton, volley-ball, skating, tennis.

PUBLICATIONS *Calendar* (annual), *Record* (students year book), *Tidings* (alumni news), monthly Oct-June.

THE YEAR 1960

HONORARY DEGREES DD—Ven Archdeacon A S Coster, Rev Canon W W. Clarkson. DCnL—Rev Canon E R McCordick DCL—Rt Hon C D Howe, chancellor, Dal, Hon Mr. Justice R A Ritchie, Lt-Col J C MacKeen, Major-General the Hon E C Plow, Lt-gov, Nova Scotia

Statistics

STUDENT NUMBERS, 1959-60
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	122	6
Women	60	9
Total	182	15

Distribution by Faculties and Schools *Arts & sci*, 162, *journalism*, 9 (also registered in arts), *theol*, 20 Total 182

Included in the figures above are —

Postgraduate students, 4
New admissions, 68
Students from other countries, 16 (Countries from which largest numbers came U S A., 6, Bermuda, 3)

DEGREES AWARDED (1959-60) *By Dalhousie* BA, 11; BSc, 2 *By King's*. MSW, 3; BD, 1.

DIPLOMAS AWARDED (1959-60) LTh, 3; journalism, 1

LAVAL UNIVERSITY*

Founded 1852

Postal Address Rue de l'Université, Québec 4, P.Q., Canada

Cables and Telegrams Laval University, Québec

Telephones 529-4511, 681-4631

ROYAL VISITOR AND CHANCELLOR APOSTOLIC—THE ROMAN CATHOLIC ARCHBISHOP OF QUÉBEC, H E
Mgr M ROY, OBE, DTh DPh
RECTOR MAGNIFICUS—Mgr L A VACHON, DTh DPh Rome
VICE-RECTOR—Mgr A M PARENT, DPh Louvain, Hon LLD Ott & McG, PhD St. Jos, Dèsl
Potiers, DTh
MODERATOR AND SECRETARY GENERAL—Mgr J. GARNEAU, LPh LTh
TREASURER—Canon E JOHIDON, BA
DIRECTOR OF STUDENTS—J C. BOUFFARD, MCom
ASSISTANT SECRETARIES—P E GOSSELIN, Lèsl LPh, Rev. L DUGAL, LPh, Rev J M BLANCHET,
BPh BBib C U A
LIBRARIAN—Rev H GAGNÉ, MA Tor, LMS Pontif Inst, Tor, LTh
ARCHIVIST—Mgr A MAHEUX, OBE, Lèsl Paris, DTh MA

TEACHING STAFF

Actuarial Science			Villeneuve, G. O, BScApp MSc N Y, PhD Yale	Asst Prof
Picard, J. P.	Asst Prof		Ouellette, G -J, BSA PhD Wis.	Asst Prof
Poulot, Y	Instr		Baril, R., LSA Montr, MSc Corn.	
Jutras, C	Instr			Asst Prof.
Paradis, G	Instr		Dessureaux, L, BSA MSc PhD Wis.	Asst. Prof.
			Choumère, L, BSA MSc	Asst Prof
Administration, see also Comin			Leblond, D, MSc McG.	Asst Prof
Samson, M.	Prof		Raymond, R, BScP	Asst Prof.
			Thiboutot, M, IF	Asst Prof
Agriculture			Lemay, J. P, LScAg Montr, MSc Anherst	
Campagna, E., BSA DSc	Prof			Asst. Prof.
Chevrette, J E, BSA DSc Corn.	Prof		Fortin, J. M, MSA Tor	Asst. Prof
Diamant, Mgr J, LPh LSc	Prof.		Caron, L., BA BSA	Instr
Gagné, C, BSA MSc Corn	Prof		Delisle, R, BA IF	Instr.
Jean, F. X., MSc Corn, LPh	Prof		Ducharme, L, BSA	Instr.
St-Pierre, M., BSA DSc Corn.	Prof.		Gauthier, A, BSA	Instr.
Scott, A, MSA Tor.	Prof		Labrecque, P, BSA MSc Ames	Instr.
Bérubé, Louis, BA BSA MScSoc	Prof		Gumont, A, BSA	Instr
Alarne, A, BSA DSc McG.	Prof		Beaudoin, R., LScCom Montr.	Instr.
Mailoux, A, BSA LSc Montr.	Prof.		Théberge, J.-M., BSA	Instr.
Gaudette, G, BSA MSc Corn	Prof.		Bellavance, L, BScP	Instr.
Bégin, P., BSA MSc Wis	Asst. Prof		Bias, P.	Instr.
Gauthier, G., BSA MSc Corn., DScNat	Asst. Prof		Coulombe, L J, DSc McG	Instr.
			Ferland, J, LSA	Instr
Duncan, J, BSA MSc McG.	Asst Prof.		Leblanc, G., BScP	Instr
Dupuis, L A., LLB	Asst Prof		Bérubé, Léo, BScP	Instr
Jean, Y, BA BScApp	Asst Prof		Bonneau, A, BSA	Instr.
Pelletier, J R, MSc McG, MSA	Asst Prof		Dumais, R, BSA MSc	Instr.
Proulx, M., BSA	Asst. Prof.		Bélanger, R, BSA MSc	Instr.
Sirois, A., BSA	Asst. Prof		Méthot, J., BSA	Instr.

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De Roy, J. M., BPh
Michaud, M. A.
Trudel, P., BSc Montr
Forest, B., BSA
Daneau, M., MSc Mas
Lord, R., AG IF MSc
Baribeau, B., BSA Mon
Lord, L., BSA MSc W
Martin, G. B., BScP

Anatomy, see Medicine

Apologetics

Drouin, M., LPh BTh
Tardif, Mgr. R.
Nadeau, Mgr. R., LPh DTh
Gay, P., LTh Rome

Archæology

Desgagnés, J., LPh

Astronomy

Denis, B , LSc
Pouliot, E., AG
Arnautovitch, P , BAstr *Belgrade*
Parrot, L , MScFor IngDr *Nancy*

Biochemistry, see also Medicine

Bois, E , DSc *Frīb.*
Jean, M , BA BScApp DSc
Lemondé, A , DSc

Biology, see also **Medicine**

Tremblay, J-L, *DipBiol Stras., BScApp DSc*
Bernard, R, *BScApp MSc PhD Corn.*
Corriveau, G, *W, BSA DSc*
Gagnon, A, *LSc*
Vandal, J. O., *LSA*
Fiteau, G, *BScApp DSc*
Gauthier, G, *BSA MSc Corn , DScNat*
Desmarais, Y, *PhD Wis, LSc*
Richard, A, *PhD Corn.*
Labrie, J-A, *BScApp DSc*
Pomerleau, R, *BSA MSc McG., DSc Mont*
Bourbeau, G, *BPharm DSc*
Duguay, J, *BSc Mch, AG IF*
Malouin, R, *MPh LTH BScApp*

Botany

Gagnon, A., LSc

Bridges

Dupuis, P. A., BScApp Montr
Martin, L., BScApp Montr

Canadian Literature

Bégin, E., LèsL
Lacourcière, L., LèsL

Cartography
Instr Valois, L., BScApp *Montr*, BSc *Qu*
Instr Lemieux, J., BGeo

Chemistry
Instr Cloutier, L., BScApp DSc *Lille*
Instr Gagné, A., LSc
Instr Gagnon, P-E, DIC, DSc *Paris*, BScApp

Chemistry

Instr	Clouter, L., BScApp DSc <i>Lille</i>	Prof
Instr	Gagné, A., LSc	Prof
Instr	Gagné, P.-E., DIC, DSc <i>Paris</i> , BScApp	
Instr	DPh	Prof
	Giguère, P.-A., PhD <i>McG</i> , BScApp	Prof
	Gravel, L., BScApp DSc	Prof
	Ouellet, C., BScApp DSc <i>Zur</i>	Prof
	L'Écuyer, P., BSc DPhul <i>Oxon</i> , BScApp	Prof
Prof	Risi, J., DSc <i>Frib</i>	Prof
Prof.	Amiot, L. P., DSc	Prof.
Prof.	Ménard, J.-A., LSc	Prof.
Prof	Engel, C., DSc <i>Zur</i>	Prof
	Ouellet, L., DSc	Prof
	Nadeau, G., PhD	Asst
	Filteau, G., MSc	Asst
Instr	Herman, J. A., DSc <i>Lowain</i>	Asst
	Lefrançois, M., BScApp DSc	Instr
	Brassard, P., DSc	Instr
Prof	Blanchard, L. P., DSc	Instr
	Soucy, J. R., DSc <i>Pui due</i>	Instr

City Management

Dorion, R., BScApp *Montr.* Asst Prof.

Commerce

Prof	Irénée, Br, BSc	(Accty) Prof
Prof	Bruneau, P, LScCom	(Admin) Prof
Instr	Lebel, P, LLL	(Econ & Law) Prof
	Alfred, Fr, DStat <i>Boston</i> , LScCom	
		(Maths) Prof
	Gumont, P-H, AM <i>Harv</i> , LScCom	
		(Econ & Finance) Prof
Prof	Siméon, Br, LScCom	(Accty & Maths) Prof
Prof	Bélanger, M, MScEcon <i>Harv.</i> , LScCom	Prof
Prof	Hormidas, R, Bpéd LPh	Prof
Prof	Godbout, G, LScCom	(Admin.) Asst. Prof
Prof	Laurent, E, LLL LPh	(Admin.) Asst. Prof
Prof	Bertrand, D, MScCom	(Econ) Asst. Prof
Prof.	Breton, R, LScCom	(Finance) Asst. Prof
Prof.	Gumout, J P, BScCom	(Finance) Asst. Prof
Prof.	Blondeau, C, LLL (Philos & Social)	Asst. Prof
Prof.	Audet, P, BA	(Econ.) Asst. Prof.
Prof	Labrecque, Br. MA <i>St.Louis</i> , BScCom	

Prof	BPéd	Asst. Prof
Prof	Amoyot, R., MBA <i>Hav</i> , LLL	Asst. Prof
Prof	McGoldrick, R, MScR N Y	Asst. Prof
Prof	Roland, E	Asst. Prof
	Cornvault, C, MScCom	Asst. Prof
	Claude, Br, MScCom <i>Chic</i>	Asst. Prof
Prof	Bisson, A, MBA <i>Hav</i> , MScCom	Asst. Prof
	Riverrin, A., MScSoc MScCom	Asst. Prof
	Boulet, A, LScCom	(Accty) Instr
Prof	Clément, H	(Finance) Instr
t Prof.	Leclerc, C E, LLL	(Law) Instr
	Bouchard, P., LLL	Instr.
	Pelletier, H., LLL	Instr
	Gagnon, C, LLL	Instr.
Prof	Giroux, G, MScCom	Instr.
Prof.	Taschereau, J. LLL	Instr

De Coster, R, MScCom
 Theodose, B., MA
 Flynn, J, LLL
 Côté, P., LLL
 Després, R., LScCom
 Duchaine, L. F., MScCom
 Turcotte, M., MScSoc
 Nivard, Br, BPéd
 Grondin, G., BScCom
 Lafrance, G, DiplActuarialMaths Edm.,
 LScCom Montr
 Ouellet, F., LsL
 Lambert, M., MScCom
 Picard, L., LPh LSc
 Yaccarini, B, LLL Paris, MScSoc
 Martel, M A, MScCom
 Letarte, C., MBA Harv, MScCom
 Langlois, Y., MBA Harv, MScCom
 Lafleur, B., BL
 Dugré, R, MScCom
 Labrosse, R J, GPéd
 Quimper, D, LLL
 Roy, L, MScCom
 Savard, G, LLL
 Stanton, R H, CA
 Tremblay, M, LsL LLL

Dentistry, see Medicine

Drawing (Mechanical)

Giroux, L, BScApp Montr.
 Paré, C.
 St-Arnaud, R.
 Côté, G., BA

Ecology

Rousseau, L Z, AG IF
 Desmarais, Y, PhD Wis., LSc

Economics, see also Comm and Soc Sciences

Wilson, J O., MA DiplFor Oxon. Asst. Prof.

Education

Miville, Rev R, BA LPh LPsych Montr. Prof.
 Tremblay, A., MAEd Harv, LScSoc Prof.
 Lockquell, C., DPh BPéd Prof.
 L'Archevêque, P., DPéd Montr Prof.
 Lauzon, M., LTh LDC LScSoc Prof.
 Barbeau, M, LsL Prof.
 Joly, R., LPh MA Ott. (on leave) Prof.
 Samson, H, PhD Wash, MD Asst. Prof.
 Duval, R, LOr Asst. Prof.
 Garant, J M., BPéd LOr Asst. Prof.
 Lachance, J M, LPh LTh LPsych Asst. Prof.
 Meunier, M., LPsych Montr Asst. Prof.
 Turcotte, Marcelle, LPéd Asst. Prof.
 Dumais, Louise, MServSoc Asst. Prof.
 Slater, E, LOr Asst. Prof.
 Bergeron, G A., MD Instr.
 Cantin, S, DPh Instr.
 Lebel, M., BA Oxon., DsL Instr.
 Gauthier, A., LPh DPéd Montr, LSc Instr.

Instr Hector, Br., BPéd BPh Instr.
 Instr. Maranda, R, BScSoc BOr Instr.
 Instr. Delsie, G Instr.
 Instr. Chéné, H, LOr Instr.
 Instr. Lessard, J C, LPsych Montr. Instr.
 Instr. Ruel, P H, LPéd Instr.
 Instr. Thibodeau, Mme Marcelle, LSc Instr.
 Instr. Arcand, G, LHyg Montr. Instr.
 Instr. Massicotte, J. P., MScCom Instr.
 Instr. Trotter, A, LPéd LOr Instr.
 Instr. Lapointe, R. E., DPsych Instr.
 Instr. Louis-Morice, Br, LPsych Montr. Instr.
 Instr. Ouellet, H. R., DPh Instr.
 Instr. Béausoleil, J, LTh DPsych Montr. Instr.
 Instr. Joly, J M., MA Ott. Instr.
 Instr. Roy, R, BEdPh Ott Instr.
 Instr. Tardif, J M, DTh Instr.
 Instr. Richard, H., LOr DPsych Instr.
 Instr. Légaré, P., LOr Asst.
 Instr. Langevin, C, LOr Asst.
 Instr. Poulin, J., LOr Asst.

Engineering

Massé, A., AG IF Prof.
 Instr. Joncas, L., BScApp IC Montr., AG Prof.
 Instr. Tordion, G. V., IMéc Zür. Prof.
 Instr. Michel, B, BScApp Asst. Prof.
 Instr. Schlader, A F., PhD Vienna Asst. Prof.
 Instr. Bouillon, G, BEng McG Instr.
 Instr. Dubé, A., DSc CarnegieTech Inst. Instr.
 Instr. Bertrand, G, IMéc McG Instr.
 Instr. Larochelle, P, DSc Lond Instr.
 Instr. Skodorski, N, ID Leningrad Instr.
 Instr. Manguy, L Instr.
 Instr. Giroux, Y., BScApp Asst.

Engineering, Chemical

Cholette, A., BScApp McG., MSc Prof.
 PhD M.I.T. Prof.
 Grenier, P., BScApp MSc Prof.
 Cloutier, L., BScApp Asst. Prof.
 Blanchard, L P., DSc Asst. Prof.
 Roy, P H, DSc Ill. Instr.

Engineering, Electrical

Boulet, L., BScApp MSc Prof.
 Wildi, T., BScApp Prof.
 Boisvert, M, BScApp Prof.
 Robert, J, DSc Nancy Asst. Prof.
 Gumowski, I, MSc Asst. Prof.

Engineering, Mechanical

Nicholl, C I H, DSc Tor. Prof.
 Goodspeed, F, PhD Camb. Asst. Prof.
 Baronet, C., BScApp Asst.

English

Abel, G, BA Prof.
 Robert, G, BA BTh Prof.
 Mackey, W., MA Prof.
 Porter, E., AG IF Asst. Prof.
 Lesage, J, BA Asst. Prof.
 Mullins, S., MA Tor. Asst. Prof.

Thorburn, L. H, MA *Camb*
Hurtle, W H, MA *Dal*

Instr
Asst
Morisset, G., LLL
Dumouchel, G., LèsL
Mackey, Mrs. Ilonka
Tremblay, J P, LèsL MA
Parent, C E, LèsL LPh *Ou*

Instr
Instr.
Instr
Instr

Entomology

Maheux, G., DèSc *Montr* MA LSA IF Prof.
Daviault, L., LSA DSc *Montr*, MSc *McG*

Asst. Prof

Finance, see Comm.

Folklore

Lacourcière, L., LèsL BA
Savard, Mgr. F.-A., BA
Ferland, Mrs. Philippe, MA

Prof.
Prof
Asst Prof.

Forestry

Bourget, M. A., AG IF Prof.
Lussier, O., LLL IF DScFor Prof.
Rousseau, L. Z., AG IF Prof.
Richard, A., MSc PhD *Corn.*, IF Prof.
Lafond, A., PhD *Wis*, IF Prof.
Bernier, G.-H., AG IF Asst Prof.
Pomerleau, R., BSA MSc *McG*, DSc Asst. Prof.
Wilson, J O, MA DiplFor *Oxon*. Asst. Prof.
Deschamps, R., BA RP IF Asst. Prof.
Lamothe, G., BScApp IC Asst. Prof.
Duguay, J., MFor *Mich.* Asst. Prof.
Linteau, A., MScFor *Yale*, IF Asst. Prof.
Chouinard, L., PhD *Wis*. Asst. Prof.
Bernier, B, DPhil *Oxon*, IF MScF Asst. Prof.
Bousquet, P., BScApp *Montr.* Instr.
Cimon, J., MSoc Instr.
Jobin, André, AG IF Instr.
Lahaye, J. C., MCP *Harv*, BCom *McG* Instr.
Langevin, R., MFor *Yale* Instr.
Fréchette, A., BScApp Instr.
Grandtner, M., IngEaux&Forêts *Louvain* Instr.
Deslandes, G., IF Instr.
Ladouceur, G., IF MSc Instr.
Rousseau, L., BSc *Oxon*., DSc *Nancy*, IF Instr.
Goulet, M., DSc *Munch*, IF Instr.

French Language and Literature, see also Mod Langs.

Talbot, L., LèsL LTh Prof.
Bégin, E., LèsL (Fr Lit.) Prof.
Lacourcière, L., LèsL (Fr Lit.) Prof.
Auger, J. C., LèsL Prof.
Savard, Mgr. F.A., Hon. DLett *Montr.*, BA Prof.
Jobin, Rev. André, LTh Prof.
Lapointe, Jeanne, LèsL Prof.
Garnier, B., LèsL LTh Prof.
Falardeau, Mgr. A., BA Prof.
Valin, R., LèsL Prof.
Lafrenière, Mgr. A. Prof.
M.-de-St.-Hubert, Sr. Prof.
Morice, L., DèSc Prof.
Fontaine, H., LPh LèsL Asst. Prof.
Bernier, J., LèsL Asst. Prof.
Simard, P. E. Asst. Prof.
Lortie, L., LLL Asst. Prof.
Gagnon, M., LTh LèsL Asst. Prof.
Boulet, G., LèsL Asst. Prof.
Gendron, J. D., LèsL Asst. Prof.

Geography

Hamelin, L. E., DGeo *Grenoble*, LScSoc Prof.
Grenier, F., LèsL (on leave) Asst. Prof.
Camu, P., LèsL MA PhD *Montr.* Instr.
Frégault, G., LèsL *Montr.*, PhD *Chic.* Instr.
Trotter, L., LGeo Instr.
Bussières, P., LèsL Instr.
Robitaille, B., DGeo Instr.
Bertrand, L., BGeo Asst.

Geology and Mineralogy

Laverdière, J. W., DSc *Lille*, MA Prof.
Auger, P.-E., BScApp BSc *Qu*, DSc Prof.
M.I.T.
Richard, A., MSc PhD *Corn*, IF Prof.
Béland, R., BSc *Qu*, MA PhD *Tor.* Prof.
Bureau, R Instr.
Bergeron, R., BScApp MA *Col.* Instr.
Sauvé, P., DSc *Johns H.* Instr.

Geotechnics

Fournier, R. Instr.

German, see Mod Langs.

Greek

Beaudry, Canon E., BA Prof.
Lebel, M., BA *Lond*, LèsL Prof.
Marcotte, A., LèsL Prof.
Thomassin, Mgr. R., BA Prof.
Jobin, Rev. André, LTh Prof.
Leclerc, Mgr. M. Prof.
Laberge, P. A., LèsL Prof.
Dumouchel, G., LèsL LTh Asst. Prof.
Galarneau, J., LèsL Asst. Prof.
Guérard, A., LèsL Asst. Prof.

Gregorian Chant, see also Music and Theol

Letarte, M., BA Asst. Prof.
Fortier, E., BA Asst. Prof.
Brochu, L., BA Instr.

Heating

Paquet, J. M., BScApp Asst. Prof.

History

Simard, A. Prof.
Trudel, M., DèSc Prof.
Bernier, J., LèsL Prof.
Bailargeon, N., LTh Asst. Prof.
Demers, Mgr. G. E., LPh Asst. Prof.
Dulong, G., LèsL Asst. Prof.
Galarneau, C., LèsL Asst. Prof.
Roy, A., DèSc *Paris* Instr.

CANADA

Drouin, P. E., LPh DTh	Asst Prof	Tremblay, G., LPh	Prof
Leduc, P., LPh	Asst Prof	Faucher, A., MA <i>Tor</i> , LScSoc	Prof.
Nolin, Mgr R., LPh	Asst Prof	Bélanger, G., LTh LScSoc <i>C U A</i>	Prof.
Blanchet, L. E., MSc <i>Notre Dame</i> , LPh		Denault, Miss Hayda, MServSoc	Prof.
LTh	Asst Prof	Paré, Simone, LScSoc	Prof
Labrie, R., DPh	Asst Prof	Beaulieu, M. L., LLd PhL	Prof
Côté, A., LPh	Instr	Dehem, R., DScEc <i>Louvain</i>	Prof
St.-Jacques, A., LPh	Instr.	Gosselin, E., MA(Econ) <i>Tor</i> .	Prof
Hamelin, J. M., LTh LPh	Asst	Leblanc, N., MScA	Prof

Phonetics

Ferland, Mrs. Philippe, MA	Asst. Prof.	Poznanski, T., DSc <i>Berne</i>	Asst. Prof.
----------------------------	-------------	---------------------------------	-------------

Physics

Benoit, R., LPh LTh LDC	Prof	Thibault, M. A., MScSoc	Asst. Prof
Kœnig, H. P., DSc <i>M I T.</i>	Prof	Dion, L., MScSoc	Asst. Prof
Osborne, F. F., BScApp MSc PhD <i>Yale</i>	Prof	Guay, E., MScSoc	Asst. Prof.
Jones, L., BScApp IC AG	Prof	Bergeron, G., MScSoc	Asst Prof
Borvin, A., BScApp MSc	Prof	Hodgson, J., MScSoc	Asst. Prof.
Bonenfant, F., BScApp MSc	Prof	Tremblay, R., MScSoc	Asst Prof
Geoffrion, C., BScApp MSc	Prof.	Lemelin, C., PhD <i>Harv</i> , BSA	Asst. Prof
Hall, G., BScApp MSc	Prof	Dubé, Y., BScApp	Asst. Prof.
Kerwin, L., BScApp DSc	Prof	Guay, G. D., PhD	Asst. Prof.
Darling, B. T., MSc <i>Ill</i> , PhD <i>Mich</i>	Prof	Tremblay, A., LSA <i>Mont</i> , PhD <i>Corn</i>	
Lansraux, G., DSc <i>Paris</i>	Prof	Dumont, F., MScSoc CES <i>Psyc Paris</i>	Asst. Prof
Frémont, C., MSc	Asst. Prof	Cardin, R., MScSoc <i>Montr</i>	Asst Prof
Nadeau, G., BScApp	Asst Prof.	Chartier, R., MScSoc	Asst. Prof.
Huot, L. H., MSc	Asst Prof	St-Laurent, J., MScSoc	Asst. Prof.
Chassé, Y., BScApp	Instr.	Tiottier, M., LPh	Instr
Godin, G., MSc <i>McG</i>	Instr.	Delage, J., MD	Instr
Gauvin, L., BScApp	Instr	Boucher, B., MD	Instr
Lavoie, J. L., BScApp	Asst	Girard, L., LPh	Instr
		Poirier, G., BSocServ	Instr
		Bergeron, M., LLL	Instr.
		De Passillé, F., LScSoc LScCom <i>Montr</i>	Instr.
		Lavallée, P., LScSoc	Instr.
		Martin, Y., MScSoc	Instr
		Moin, C., MSocW <i>Col</i>	Instr
		Lemieux, V., MScPol	Instr
		Provencher, F., MScPol	Asst
		DuRanquet, Mathilde, BServSoc	Asst

Physiology, see Medicine, below**Religion**

Drouin, M., LPh	Prof		
Leclerc, Mgr. C., LèsL	Prof.		
Foucault, E.	Asst. Prof	Surveying	
Goupil, Canon J. P.	Asst. Prof	Joncas, L., BScApp IC <i>Montr.</i> , AG	Prof
Hadd, P. E., DTh	Asst Prof	Guay, F., AG IF	Asst. Prof
Hamelin, A.	Asst Prof.		
St-Amand, L.	Asst Prof	Theology, see below	
Poulin, E.	Asst. Prof		
Marie-de-la-Charité, Sr.	Asst. Prof	Transportation	
Madeleine-de-la-Résurrection, Sr	Asst Prof	St-Jacques, J., BScApp	Asst. Prof
Galarneau, J.	Asst Prof	Rioux, R., BScApp	Asst. Prof
Gregoire, L.	Asst Prof	Marchand, L.	Asst Prof.
Guerard, D.	Asst Prof.		
Pichette, Canon H., LScSoc DTh	Instr		

Social Sciences

Lévesque, G. H., LTh DipScSocPol <i>Lille</i>			
(Econ) Prof.			
Gumont, P. H., LScCom AM <i>Harv</i>		Administrative and Constitutional Law	
(Econ & Finance) Prof.		Pigeon, L.-P., LLL	Prof.
Lebel, P., LLL	(Econ.) Prof.	Cimon, A., LLL	Instr.
Leblond, W., MD	(Hyg) Prof.	Desgagné, A., LLD <i>Paris</i>	Instr.
Martin, J. M., LSA <i>Montr.</i> , MSA <i>Corn</i>	Prof.	Aviation Law	
Dion, G., LTh LPh LScSoc	Prof	Morin, Judge W., LLL	Prof
Falardeau, J. C., LScSoc LPh		Bibliography	
(Sociol. & Soc. Res) Prof.		Lortie, L., LLL	Asst. Prof.
Tremblay, M., AM <i>Harv.</i> , LScSoc (Sociol.) Prof			

CANADA

Deontology and Medical Economics		Medicine, Clinical	
Gauthier, C. A., MD	Prof.	Caron, S., MD	Prof.
		Desmeules, R., MD	Prof.
		Desrochers, G., MD	Prof.
Dermatology		Jobin, J.-B., MD	Prof.
Gaumont, E., MD	Prof.	Laliberté, H., MD	Prof.
Beaudry, M., MD	Asst. Prof.	Leblond, S., MD	Prof.
Grandbois, J., MD	Asst. Prof.	Lemieux, R., Hon. L.L.D. Edm., MD	Prof.
Therrien, R., MD	Asst.	Lessard, R., MD	Prof.
		Nadeau, H., MD	Prof.
Dietetics		Paquet, B., MD	Prof.
Nadeau, H., MD	Prof.	Laroche, L. N., MD	Prof.
		Martel, A., MD	Prof.
Electrotherapy		Rousseau, L., MD	Prof.
Lapointe, H., MD	Prof.	Drouin, G., MD	Asst. Prof.
Samson, M., MD	Prof.	Dugal, J. P., MD	Asst. Prof.
Payeur, L.-R., MD	Asst. Prof.	Delage, J., MD	Asst. Prof.
		Rouleau, Y., MD	Asst. Prof.
Endocrinology		Larue, G. H., MD	Asst.
Martel, A., MD	Prof.	Patry, L., MD	Asst.
		Richard, P., MD	Asst.
Gynecology		Blais, A., MD	Asst.
Garant, O., MD	Prof.	Dunne, R., MD	Asst.
Simard, R., MD	Prof.	Potvin, R., MD	Asst.
Demers, F. X., MD	Prof.	Brunet, J., MD	Asst.
de St-Victor, J., MD	Asst. Prof.	Grégoire, C., MD	Asst.
Reid, L., MD	Asst. Prof.	Bertrand, G., MD	Asst.
Gumont, V., MD	Asst. Prof.	Samson, M., MD	Asst.
Rochette, P., MD	Asst.	Beaudoin, J., MD	Asst.
Marchand, R., MD	Asst.	Marois, A., MD	Asst.
Beaulieu, E., MD	Asst.	Pichette, R., MD	Asst.
Claveau, R., MD	Asst.	Brunet, J., MD	Asst.
Lemieux, E., MD	Asst.	Brunet, C., MD	Asst.
Savard, L., MD	Asst.	Roberge, R., MD	Asst.
Caouette, M., MD	Asst.		
St-Arnaud, G., MD	Asst.	Mental and Nervous Diseases	
Brault, R., MD	Asst.	Caron, S., MD	Prof.
Duchaine, P., MD	Asst.	Desrochers, G., MD	Prof.
Fortin, P. E., MD	Asst.	Larue, L., MD	Prof.
Allen, L. P., MD	Asst.	Gauthier, C. A., MD	Prof.
		Painchaud, C. A., MD	Asst. Prof.
Hygiene		Pelletier, A., MD	Instr.
Grégoire, J., DPH Johns H., MD Montr.	Prof.	Sirois, J., MD	Instr.
Foley, A. R., DPH Johns H., MD	Asst. Prof.	Bourgoin, L., MD	Instr.
Sylvestre, J. E., DPH Tor., MD	Asst. Prof.	Labrecque, J. E., MD	Instr.
Fontaine, L., BScApp	Asst. Prof.		
Bellemare, B., MD	Asst. Prof.	Nutrition	
Claveau, P., MD	Instr.	Babineau, L.-M., BScApp	Instr.
Gilbert, J., DPH Tor., MD	Instr.		
Legal Medicine		Ophthalmology	
Desrochers, G., MD	Prof.	Lacerte, J., MD	Prof.
Martin, C. A., MD	Asst. Prof.	Audet, J., MD	Asst. Prof.
		Pelletier, J. E., MD	Asst. Prof.
		Boulanger, J., MD	Instr.
		Plamondon, M., MD	Asst.
Materia Medica		Orthopaedics	
Lessard, R., MD	Prof.	Roger, J.-P., MD	Asst. Prof.
Claveau, R., BPharm	Asst. Prof.	Roy, L.-P., MD	Asst. Prof.
Marquis, J. C., BPharm	Instr.	Lessard, J. M., MD	Asst.
		Royer, M., MD	Asst.
Medical History		Page, R., MD	Asst.
Leblond, S., MD	Prof.	Leclerc, J., MD	Asst.
Boucher, B., MD	Instr.		

Oto-Rhino-Laryngology

Painchaud, P., MD
 Letarte, F., MD
 Laroche, F., MD
 Pelletier, E., MD
 Hallé, J., MD
 Frenette, O., MD
 Maranda, E., MD
 Fugère, P., MD
 Caux, M., MD
 Moreau, A., MD
 LaVoie, R., MD

Pædiatrics

Langlois, M., MD
 Lapointe, D., MD
 Fortier, de la Bioquerie, MD
 Déchène, E., MD
 Larue, A., MD
 Thibaudcau, R., MD
 Richard, M., MD
 Turcot, R., MD

Pathology, General

Auger, C., MD
 Bonenfant, J. L., MD
 Genest, P., MD
 Gagné, F., MD
 Garneau, R., MD
 Jean, C., MD
 Lefontaine, J., DSc *Wis*
 Meisels, A., MD *Mexico*

Pathology, Medical

Paquet, B., MD
 Laroche, L. N., MD
 Rousseau, L., MD
 Morin, E., MD
 Drouin, G., MD
 Tétrault, A., MD *Mont*
 Lapointe, G., MD
 Fortier, J., MD
 Caouette, R., MD
 Guay, M., MD
 Jobin, J., MD
 Dorval, C. H., MD
 Rousseau, J., MD
 Boudreault, G., MD
 Lemeux, H., MD
 Saucier, R., MD
 Bélanger, M., MD
 Bruneau, J., MD
 Devarennes, P., MD
 Lachance, W., MD
 Samson, M., MD
 Saulnier, G., MD
 Lemeux, J., MD
 Montminy, L., MD
 Dion, R., MD
 Groulx, G., MD
 Delage, M., MD
 Plamondon, C., MD

Pharmacy

Prof. Marquis, A., BPharm Prof.
 Prof. Cluche, E., DPharm *Paris* Prof.
 Asst. Prof. Bourbeau, G., LSc BPharm Asst. Prof.
 Asst. Prof. Demers, L. P., BPharm Asst. Prof.
 Asst. Prof. Boissinot, A., BPharm Instr.
 Asst. Prof. Joly, L. P., BPharm MSc Instr.
 Asst. Marquis, J. C., BPharm Instr.

Phthisiology

Desmeules, R., MD Prof.

Physiology, see also Adaptation

Blanchet, R., MD Prof.
 Prof. Bergeron, G. A., MD Prof.
 Prof. Fortier, C., MA MD DSc *Mont* Prof.
 Prof. Gagnon, A., PhD *Penn.* Instr.
 Asst. Prof. Potvin, P., MD Asst.
 Asst. Saucier, G., MD Asst.

Physiotherapy

Gaumont, E., MD Prof.
 Samson, M., MD Prof.
 Payeur, L.-R., MD Asst. Prof.

Radiology

Prof. Potvin, A. R., MD Prof.
 Asst. Prof. Lessard, R., MD Prof.
 Asst. Prof. Payeur, L.-R., MD Asst. Prof.
 Instr. Lessard, R., MD Instr.
 Instr. Bernier, J. P., DSc Instr.

Surgery, Clinical

Poliquin, P. A., MD Prof.
 Roy, F., MD Prof.
 Trempe, F., MD Prof.
 Auger, G., MD Prof.
 Laverne, N., MD Asst. Prof.
 Lemeux, J. M., MD Asst. Prof.
 Asst. Prof. Roger, J. P., MD Asst. Prof.
 Asst. Prof. Verreault, J. E., MD Asst. Prof.
 Asst. Prof. Pettigrew, A., MD Asst. Prof.
 Asst. Prof. Samson, E., MD Asst. Prof.
 Asst. Caron, W., MD Asst. Prof.
 Asst. Turcot, J., MD Asst. Prof.
 Asst. Cauchon, R., MD Asst. Prof.
 Asst. Denoncourt, J. A., MD Asst. Prof.
 Asst. Gagnon, G., MD Asst. Prof.
 Asst. Simard, E., MD Asst. Prof.
 Asst. Giguère, A., MD Asst.
 Asst. Leclerc, L. P., MD Asst.
 Asst. Beaudry, E., MD Asst.
 Asst. Brisson, F. X., MD Asst.
 Asst. Gauthier, G. T., MD Asst.
 Asst. Laperrière, V., MD Asst.
 Instr. Simard, L. P., MD Asst.
 Instr. Montel, G., MD Asst.
 Instr. Gravel, A. J., MD Asst.
 Instr. Beaudet, H., MD Asst.
 Instr. Jolicœur, A., MD Asst.
 Instr. Tremblay, G. W., MD Asst.
 Instr. Tremblay, G., MD Asst.
 Instr. Beaulieu, M., MD Asst.

Marcoux, G, MD
Reinhardt, G. H, MD
Labbé, P, MD

Asst. Roy, L, LPh DTh Rome Asst Prof.
Asst. Noël, L, DTh Rome Asst. Prof.
Asst. Beaumont, H, BPh LTh DDC Rome Asst Prof.
Crépeault, Canon P -E, DTh DPh Rome

Therapeutics

Lessard, R, MD Paris & Laval
Delage, J M, MD
Côté, R, MD

Prof. Gagné, H, PhD Tor., LTh
Asst Prof. Vachon, Mgr L.-A., DTh Rome, LPh
Instr.

Urology

Bédard, A, MD
Gourdeau, Y, MD
Fisher, J G., MD
Coulonval, L, MD

Ibranyi, Mgr F, DPh DTh
Roy, Y, LPh DTh Rome
Beaudet, R, LTh LSS Rome
Fortier, E, BTh
de Koninck, C., DPh Louvain
Morisset, B., LTh
Doyon, R, LTh LPh BScSoc
Adam, R, LTh DDC

Workmen's Accident Law

Leclerc, A., MD

Asst Prof. Lachance, J -M, LTh LPh LPsych Montr
Fortin, B, BPh LTh LArchéol Rome
Moreault, P, DTh LSS Rome
Brochu, J -M, BA

THEOLOGY

Vandry, Mgr F, CMG, LPh DTh

(Dogmatic T) Prof

Lemieux, Mgr E., LPh DTh

(Ascetical T & Liturgy) Prof

Petit, Mgr G., DDC

La Flamme, R, LPh LTh
Marchosky, H, LTh LPh
Vennes, G, DTh
Lessard, N. A, MScSoc
Lapointe, G, MScSoc

Mathieu, A, DTh

Asst Prof

Lacoulme, P, DTh

Asst Prof

Dionne, Mgr M, LPh LTh

Asst Prof

ADMINISTRATIVE AND OTHER STAFF

Chaplains A Jobin, LTh, M J Drouin,
LTh LPh, L E Blanchet, LTh LPh, J
Fournier, LTh, J C Racine, LTh Dir of

Health Service P Jobin, MD Dir of Univ
Press A M Parent, DTh DPh

UNIVERSITY COLLEGE

COLLÈGE UNIVERSITAIRE An integral part of
Laval Univ Students may be admitted after
having successfully completed the first 2 yrs. of
the *cours universitaire* in a *collège classique* and can

obtain the BA after a further 2 yrs in the *collège
universitaire* Because the emphasis of the BA
course here is on the scis, students can reduce the
length of their engin course by 1 yr.

AFFILIATED INSTITUTIONS

Affiliation or, in the case of an institution outside the provinces of Quebec and Ontario, *aggrégation*, involves control by the univ. of programmes and exams With a few exceptions, the teaching staff of these instns are not listed by name above

Classical Studies

The following colls (for boys) provide an 8-yr.
course (*cours secondaire et cours universitaire*)
leading to the BA of Laval Univ —

ACADÉMIE DE QUÉBEC, Quebec (affiliated 1953).
COLLÈGE CLASSIQUE DE THETFORD, Thetford-
Mines.

COLLÈGE D'AMOS, Amos (1941).

COLLÈGE DE JONQUIÈRE, Jonquière (1956)

COLLÈGE DE LÉVIS, Lévis (1879).

COLLÈGE DE MARIE-MÉDIATRICE, Hull (1949)

COLLÈGE DE MATANE, Matane (1958).

COLLÈGE DES JÉSUITES, Quebec (1930).

COLLÈGE DE STE - ANNE - DE - LA - POCATIÈRE,
Kamouraska (1863).

COLLÈGE DE VICTORIAVILLE, Victoriaville (1953)

COLLÈGE ST. - ALEXANDRE, Pointe - Gatineau
(1915).

ÉCOLE APOSTOLIQUE DU SACRÉ-CŒUR, Beau-
port & Wsbertown, N Y, U.S.A (1944)

EXTERNAT ST - JEAN-BUDES, Quebec (1938)

INSTITUT STE - MARIE, St - Anselme (1956).

MONT ST - SACREMENT, Valcartier (1956)

PETIT SÉMINAIRE DE CHICOUTIMI, Chicoutimi (1877).
 PETIT SÉMINAIRE DE MONT-LAURIER, Mont-Laurier (1915).
 PETIT SÉMINAIRE DE NICOLET, Nicolet (1863).
 PETIT SÉMINAIRE DE QUÉBEC, Québec (1863).
 PETIT SÉMINAIRE DE ST-GEORGES, Beauce (1949).
 PETIT SÉMINAIRE DE ST-GERMAIN, Rimouski (1872).
 PETIT SÉMINAIRE ST-JOSEPH, Trois-Rivières (1863).
 SÉMINAIRE DE GASPÉ, Gaspé (1926).
 SÉMINAIRE DE HAUTERIVE, Saguenay (1955).
 SÉMINAIRE DES PÈRES MARISTES, Sillery (1944).
 SÉMINAIRE DU SACRÉ-CŒUR, St-Victor, Beauce (1925).
 SÉMINAIRE MONTFORTAIN, Papineauville (1941).
 SÉMINAIRE ST-ALPHONSE, Ste.-Anne-de-Beaupré (1932).
 SÉMINAIRE ST.-ANTOINE, Trois-Rivières (1933).
 SÉMINAIRE ST-FRANÇOIS, Cap Rouge (1956).
 SÉMINAIRE ST-VINCENT, Charlesbourg.
 SÉMINAIRE STE.-MARIE, Shawinigan (1950).

The following colls. (for girls) provide an 8-yr course (*cours secondaire et cours universitaire*) leading to the BA of Laval Univ. —

COLLÈGE ANGELE-DE-MÉRICI, Québec (affiliated 1936).
 COLLÈGE DES URSULINES, Rimouski (1939).
 COLLÈGE DU BON-PASTEUR, Chicoutimi (1947).
 COLLÈGE JÉSUS-MARIE, Sillery (1924).
 COLLÈGE MARGUERITE D'YVOVILLE, Hull (1945).
 COLLÈGE MARIE-DE-L'INCARNATION, Trois-Rivières (1935).
 COLLÈGE NOTRE-DAME DE BELLEVUE, Québec (1937).
 COLLÈGE NOTRE-DAME DE L'ASSOMPTION, Nicolet (1932).
 SCOLASTICAT NOTRE-DAME-DU-ROSAIRE, Hull (1940).

Nine other colls. (for girls) provide only a 4-yr. course (*cours secondaire*) leading to the matric. dipl. of Laval Univ.

Lettres-Sciences

Seven colls. (for girls) provide a 4-yr. course (*cours lettres-sciences*) leading to the matric. dipl. of Laval Univ.

Schools of Nursing

The following hospitals provide a 3-yr. post-matric. course leading to the dipl. in nursing of Laval Univ. —

HÔPITAL DE L'ENFANT-JÉSUS, Québec (affiliated 1928).
 HÔPITAL ST.-FRANÇOIS D'ASSISE, Québec (1925).
 HÔPITAL ST-JOSEPH, Rimouski (1944).
 HÔPITAL ST.-JOSEPH, Rivière-du-Loup (1924).
 HÔPITAL ST.-JOSEPH, Trois-Rivières (1923).
 HÔPITAL ST.-MICHEL-ARCHANGE, Québec (1924).

HÔPITAL ST.-SACREMENT, Québec (1928).
 HÔPITAL STE.-THÉRÈSE, Shawinigan (1945).
 HÔPITAL YVOVILLE, Noranda (1934).
 HÔTEL-DIEU, Alma (1957).
 HÔTEL-DIEU, Arthabaska (1935).
 HÔTEL-DIEU, Gaspé (1949).
 HÔTEL-DIEU, Lévis (1934).
 HÔTEL-DIEU, Québec (1933).
 HÔTEL-DIEU NOTRE-DAME, St.-Georges, Beauce (1957).
 HÔTEL-DIEU ST.-VALLIER, Chicoutimi (1938).

GENERAL INFORMATION

The univ. was founded in 1852, under a royal charter, by the Seminary of Québec (whose own founder was the Ven. Mgr. François de Montmorency Laval, the first bishop of Québec). A general supervision of teaching and discipline is exercised by the Archbishop of Québec as visitor and chancellor apostolic and president of the conseil supérieur of bishops of the ecclesiastical province of Québec. The profs. of the facs. of theol. and philos. are nominated by the visitor, those of other facs. by the conseil de l'université, composed of the dirs. of the Seminary of Québec and 3 sr. profs. of the facs. of theol., arts, law and med., and the deans of the facs. of philos., letters, scis., soc. scis., agric., for. and surveying, and comm.

LIBRARIES. General, 325,000 vols.; others, 65,200 vols.

GENERAL MUSEUM. Dir.: A. Jobin.

LABORATORIES. Anat., bacteriol., biochem., biol., bot., chem., for., geol., hyg., mineral, optics, pathol., phys., physiol., physio-pathol.

FACULTIES AND DEANS. *Agric.*: Prof. E. Campagna, *arts*: Rev. R. Miville, *comm.*: Bro. Clément, *for. & surveying*: Prof. L. Z. Rousseau, *law*: Prof. G. Hudon; *letters*: Prof. M. Lebel, *med.*: Prof. J.-B. Jobin; *philos.*: Mgr. M. Dionne, *sci.* & *engn.*: Prof. C. Ouellet; *soc. scis.*: Prof. J. M. Martin, *theol.*: Mgr. G. Petit (Prof.). These deans are elected for a 4-yr. term.

and cannot be elected for more than 2 successive terms. They are full-time.

SCHOOLS *Educn*, Prof M. Barbeau, dir.; *fisheries*, Mgr J. Diamant (Prof.), dir.; *geog*, Prof L. E. Hamelin, dir.; *grad studies*, Prof J. Risi, pres.; *hist.*, Prof M. Trudel, dir.; *household sci.*, Sr Ste-Thérèse-de-la-Foi, dir.; *music*, Prof O. Pouliot, dir.; *nursing* (16 affiliated schools), J. M. Blanchet, dir.; *pharmacy*, Prof A. Marquis, dir.; *soc service*, G. Rocher, dir.

UNIVERSITY PRECINCT At present, the bldgs of the univ. are in 3 different parts of Quebec. One section is located within the ancient walls of the old city. The fac. of scis. & engin. is about 4 miles from the old city in a new part of Quebec, it will be moved, beginning in Sept. 1961, to the 3rd section: the new *city universitaire* (one square mile) in the outskirts of Quebec about 7 miles from the old city. It is hoped that all the univ. bldgs. will be located in this 3rd section within about 5 to 7 yrs.

ADMISSION. See Appendix III.

DEGREE OF BACHELOR OF ARTS The *baccalauréat ès arts* (BA) is awarded by the univ., the complete course leading to it being provided in private *collèges classiques* affiliated to the univ. (for a list, see pp. 201-2). The course is of 8 yrs.' duration, in two 4-yr. stages called *cours secondaire* and *cours universitaire*. The former (taken from about 12 to 16 yrs of age) is comparable to the high school of English Canada and the latter to the general course in arts. Admission to the 2nd stage is by passing the *immatriculation* exam. set by the univ. (and thus obtaining the matric. dipl. of the univ.) at the end of the 4th (final) yr of the *cours secondaire* and the 1st yr of schooling. Students who reach a certain standard in both arts and sci. in the *cours universitaire* are awarded the BA of the univ., usually at about the age of 20. The award of the BA indicates that the student is ready to begin his professional studies in law, med. or appl. scis. or to enter on higher study in arts or sci.

Collège Universitaire Laval (see p. 201) provides the last 2 yrs. of the *cours universitaire* for students seeking the BA with sp. mention in scis.

OTHER DEGREES After the BA the student may proceed, in the univ. itself, to the following degrees in the fields indicated: *Agric* BSA, 4 yrs. after BA; MSc, min. of 1 yr. after BSA. *Comm.* BCom, 2 yrs. after BA; MCom, 1 yr. after BCom. *Educn* BPéd, 1 yr. after BA; LPéd, 2 yrs. after BPéd; DPéd, 1 yr. after LPéd; orientation—LOR, 4 yrs. after BA; DOR, min. of 1 yr. after LOR; psychol.—BPs, 1 yr. after BA or BPéd. *Engin.*: BScA, 5 yrs. after BA or grade XIII, MSc, min. of 1 yr. after BScA, DSc, min. of 2 yrs. after MSc. *Fisheries*: BScP, 4 yrs. after BA. *For. & surveying*: BSCA (in surveying or in forestry), 5 yrs. after BA; MSc (in forestry), min. of 1 yr. after BScA (in forestry). *Household sci.*: BScDom, 3 yrs. after BA or 4 yrs. after matric. dipl. *Law*: BLL, 4 yrs. after BA, LLL,

4 yrs. after BA; DJur, min. of 2 yrs. after LLL. *Letters*: LsL, 3 yrs. after BA, MA (solely for students whose native lang. is not French), min. of 1 yr. after BA, DU, 2 yrs. after MA; DsL, min. of 2 yrs. after dipl. of higher studies. *Med.* MD, 5 yrs. after BA, MSc, min. of 1 yr. after MD, DSc, min. of 2 yrs. after MSc. *Musc* BMus, 3 yrs. after sp. dipl. (BA not needed), LMus, 2 yrs. after BMus. *Nursing*: BScHosp, 2 yrs. after nursing dipl. (BA not needed). *Pharmacy*: BPharm, 4 yrs. after BA. *Philos.*: BPh, 1 yr. after BA, MA, 1 yr. after BPh, LPh, 3 yrs. after BA; DPh, 4 yrs. after BA. *Scis.*: BSc, 3 yrs. after BA, BSCA, 4 or 5 yrs. after BA or grade XIII, MSc, min. of 1 yr. after BSCA, DSc, min. of 2 yrs. after MSc. *Soc scis*: BScSoc, 1 yr. after BA, MScSoc, 4 yrs. after BA, DScSoc, min. of 1 yr. after MScSoc, BScServSoc, 1 yr. after BA, MScServSoc, 3 yrs. after BA. *Theol.*: BTh, 2 yrs. after BA, LTh, 4 yrs. after BA, DTh, 1 yr. after LTh.

DIPLOMAS Higher studies, min. of 1 yr. after LsL, med. technol., 2 yrs. after sr. matric., nursing, 3 yrs. after jr. matric.

TUITION FEES \$200 to \$500 p.a., with an extra charge for labs. Arts, \$200, geog., hist., med. technol., music, postgrad. studies, law, letters, educn., philos., soc. scis., theol., \$350, surveying, for, sci., \$400, med., \$500.

ACADEMIC YEAR Sept. to June. 2 terms of 15 wks. each.

RESIDENCE Fees, \$500 p.a. Students of theol. reside at the Grand Seminary, Quebec.

Other students live with families approved by the moderator.

EXTRA-MURAL WORK Summer course in theol., philos., French, English, Spanish, educn., Gregorian chant, Latin, natural scis., radio.

USUAL LANGUAGE OF INSTRUCTION. French.

STUDENT HEALTH SERVICE Under a scheme begun in 1942, students must pass a med. exam at entry to 1st yr. and at other times if judged necessary by dir. of service. Fee \$10 p.a. The service pays doctor's fees up to \$30 p.a. plus \$50 p.a. in the case of hospitalization.

PUBLICATIONS *Annuaire général*, *Annual Report*, *Special Calendars* for grad. school, theol., law, med., educn. and guidance, scis., philos., soc. scis., nursing, music, letters, comm., agric., soc. work, surveying and for., and summer courses *La Revue de l'Université Laval*, *Le Laval théologique et philosophique*, *Le Naturaliste canadien*, *L'Enseignement secondaire au Canada*, *Cahiers du Cercle Laennec*, *Revue des relations industrielles*, *Revue du service social*, *Le Carabin* (students' paper). History *L'Université Laval, 1852-1952* (Laval, 1952).

UNIVERSITY PRESS publishes the above calendars and reviews, the doctoral theses of Laval students, the works of Laval profs. and other works of special interest to Laval. It also sells textbooks and other books and supplies.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS *Bldgs approaching completion in new cité universitaire bldg for fac. of scis & engin. (now being occupied in part)*

DEATHS. G. A. M. Bourret (agric.), L. Laliberté (arts), L. de G. Foutin (agric.), Dr W. Verge (med.), A. Bédard (for), P. Deschamps (educn).

HONORARY DEGREES *DSc*—W. P. Thompson *DFor*—R. Rol; H. A. Sewell, E. Ménard, H. Kieffer; J. H. Jenkins, J. M. Gibson; P. M. Fox *DU*—Cardinal A. Ottaviani *DLitt*—S. E. P. Dupuis, A. W. Trueman, R. LeBalle *DPéd*—Hon. G. A. Frecker *DMus*—J. G. Turcotte

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	8,588	2,477
Women	2,957	2,045
Total	11,545	4,522

Distribution by Faculties *Agric.* 117, *arts*, 4830, *comm.* 867, *educn.* 348, *fisheries*, 19, *for*, 215, *household scis.*, 117, *law*, 186, *letters*, 312, *med.*, 554, *music*, 38, *nursing*, 1807, *philos.*, 107, *scis*, 1224, *soc scis*, 222, *tech. med.*, 81, *theol.*, 350, *postgrad.*, 151 Total 11,545

Included in the figures above are —

Postgraduate students, 151

New admissions, 3705

Students from other countries, 140 (Countries from which largest numbers came U.S.A., 58, Vietnam, 17)

DEGREES AWARDED (1959-60) *Agric.* BScAg, 8, MScAg, 3 *Arts* BA, 648 *Chem* BScApp, 21 *Civil engin.* BScApp, 41; MSc, 1 *Comm.* BScCom, 119, MScCom, 127 *Educn* BPéd, 292, LPéd, 12 *Electr engin.* BScApp, 14, MSc, 6 *Fisheries* BScP, 1 *For* BScApp, 33, MSc, 1 *Geol engin.* BScApp, 1, MSc, 1 *Household scis.* BScDom, 19 *Law* LLB, 10, LLL, 24 *Letters* BHist, 7, BGeo, 7; BLittA, 1; MA, 28, LèSL, 19, DEtSup, 3 *Maths* BScApp, 2 *Mech engin.* BScApp, 15, MSc, 1 *Med*: MD, 140 *Metall. engin.* BScApp, 4 *Musc*: BMus, 25 *Pharm* BPharm, 17 *Philos* BPh, 26, MPh, 1, LPh, 8 *Phys* BScApp, 9, MSc, 2 *Scis* LSc, 6 *Soc scis* BSocSc, 55, MSocSc, 24 *Soc. work* BServSoc, 18, MServSoc, 12 *Surveying* BScApp, 9 *Theol* BTh, 63; LTh, 25 *PhD* (all facs) 14

DIPLOMAS AWARDED (1959-60) *DipMetric*, 1826, *DipArts*, 4, *DipBibliothcon*, 10, *DipLett*, 3, *DipMus*, 211, *DipNurs*, 411, *DipTechMed*, 39, *DipTh*, 11

CERTIFICATES AWARDED (1959-60) *Comm*, 129, *letters*, 109, *music*, 235, *nursing*, 16, *soc scis.*, 147

MCGILL UNIVERSITY*

Founded 1821

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CHANCELLOR—R E POWELL, Hon DLitt Monmouth, Hon LLD

PRINCIPAL AND VICE-CHANCELLOR—F C JAMES, BCom Lond, AM PhD Pem., Hon DSc Clarkson, Hon DUMonts, Hon DCL Bishop's, Hon LLD Qu, N Y, Sask, Manit, Tor, Syr., Lond, Ussus, New Br, McM, Bnm, Pang, Camb, Alta, & Ott, FRSCan

VICE-PRINCIPAL—D L THOMSON, BSc MA Aberd, PhD Camb, Hon DSc Colby & McM, Hon LLD Aberd & Middlebury, FCIC, FRSCan

DEANS—AGRICULTURE—H G DION, BSc Sask, PhD Wis. (Agric Chem); ARTS AND SCIENCE—H N. FIELDHOUSE, BA Oxon, MA Sheff, FRSCan (Hist), DENTISTRY—J McCUTCHEON, MSD Mich, BA DDS, DIVINITY—S B FROST, BD MTh Lond, DPhil Marburg, ENGINEERING—D. L. MORDELL, MA Camb., GRADUATE STUDIES AND RESEARCH—D L THOMSON, BSc MA Aberd., PhD Camb, Hon. DSc Colby & McM, Hon LLD Aberd & Middlebury, FCIC, FRSCan (Biochem); LAW—F R SCOTT, BA Bishop's & Oxon, BLitt Oxon, Hon. LLD Dal, BCL, FRSCan, MEDICINE—L G. STEVENSON, BA MD W Ont, PhD John H, MUSIC—M DUCHOW, BA N Y, MA Roch., MusB

SECRETARY—J H HOLTON, BCom Tor

COMPTROLLER—G. GRIMSON, BCom

REGISTRAR—C M McDougall, DSO, BA

LIBRARIAN—R PENNINGTON, BA Birm, DiplLib Lond

WARDEN OF THE ROYAL VICTORIA COLLEGE (WOMEN)—MURIEL V ROSCOE, AM PhD Radcliffe, Hon DSc Acad, Hon LLD Qu

INCORPORATED COLLÈGES

MACDONALD COLLEGE, Ste.-Anne de Bellevue, P.Q. (tel Glendale 3-5335), incl. Fac of Agric., Inst. of Education and Sch of Household Science. Vice-Principal—H. G. Dion, BSc Sask, PhD Wis.

ROYAL VICTORIA COLLEGE, Montreal (Women's Coll of the Univ) (tel : Victor 4-6311) Warden—Muriel V Roscoe, AM PhD Radcliffe, Hon. DSc Acad, Hon. LLD Qu

TEACHING STAFF

[†=Part-Time]

MCGILL COLLEGE (Faculty of Arts and Science)

Accounting

Byrd, K. F., BSc MA Lond.
Patton, D R, BCom

Prof.
†Assoc Prof

Banfill, S. M., BA Bishop's, MD CM Assoc. Prof.
Clermont, Y, BSc Montr. Assoc. Prof.
Nadler, N J, BSc MD CM PhD Assoc. Prof.
Heller, L., MS Wis, MD CM †Lectr.
Workman, E. W., MD CM MSc †Lectr.
4 Demrs, 1 Teaching Fellow

Agriculture, see Macdonald Coll., p. 216

Anatomy (Histology, Embryology)

Leblond, C. P., MD DSc Paris, PhD Montr.

Prof.
Prof.

Langman, J, PhD MD

Anthropology, see Sociol

Architecture

Bland, J., BArch Macdonald Prof., Dir. of Sch

* Member of the Association of Universities of the British Commonwealth

Collins, P, MA *Manit.* Assoc. Prof.
 Spence-Sales, H J, BA N.Z. Assoc. Prof.
 Balharrne, J. W. †Asst. Prof.
 Webber, G, BDesign *Illinois Tech Inst* Asst. Prof.
 Wilson, S A, BArch Asst. Prof.
 Schreiber, J, BSc(Archit) *Glas.* Asst. Prof.
 Shadboit, D, BArch *Oregon* Asst. Prof.
 Johnson, W A., BA BCL †Lectr.
 Wheeler, O, BA *Bishop's* †Lectr.
 Schoenauer, N., MArch Sessl. Lectr.
 Tomchno, G Sessl. Lectr.
 Valentine, H A I., BArch †Lectr.

Art, see Fine Arts

Bacteriology, see Medicine

Biochemistry

Elliott, K. A C, MSc *S.A.*, PhD Prof.
 Thomson, D L., BSc MA *Aberd.*, PhD *Camb.*,
 Hon. DSc *Colby & McM.*, Hon. LLD
Aberd. & Middlebury, FCIC, FRSCan
 Cheney Prof.
 Quastel, J. H., PhD *Camb.*, DSc *London*,
 FRIC, FRS
 Prof., Dir., McGill-Montreal Gen. Hosp.
 Res. Inst.
 Denstedt, O. F., BSc *Manit.*, PhD, FCIC Assoc. Prof.
 Scholefield, P. G., MSc *Wales*, PhD Assoc. Prof.
 Rubenstein, D, MD PhD Asst. Prof.
 Hosain, E, MSc PhD * Asst. Prof.
 Johnstone, Rose M., BSc PhD Asst. Prof.
 Douglas, D E, MSc PhD †Lectr.
 Harpur, Eleanor M., AB *Smith*, MD CM Hon. Lectr.
 Saffran, J., BSc PhD * Sessl. Lectr.
 Zabaria, W., BSc *Manit.* Sessl. Lectr.
 Sved, S, BSc *St. G. Wms.* Hon. Lectr.
 † Res Assoc.

Botany

Roscoe, Muriel V., AM PhD *Radcliffe*,
 Hon. DSc *Acad.*, Hon. LLD *Qu.* Macdonald Prof.
 Gibbs, R. D., PhD *London*, MSc, FLS,
 FRSCan Prof.
 Wilson, C. M., BSc MA *Virginia*,
 PhD *Harv.* Assoc. Prof.
 Towers, G H N., MSc PhD Assoc. Prof.
 Boll, W G, BSc PhD *Manit.* Asst. Prof.
 Maycock, P. F., BA *Qu.*, MSc PhD *Wis.* Asst. Prof.
 † Demr

Chemistry, see also Engineering, Chemical

Purves, C. B., BSc PhD *St. And.*,
 Hon. DSc *Lawrence*, FRSCan
 (Indust. & Cellulose Chem.) Eddy Prof.
 Winkler, C A, OBE, MSc *Manit.*,
 DPhil *Oxon.*, PhD, FCIC, FRSCan
 Otto Maass Prof.

Yaffe, L., MSc *Manit.*, PhD Macdonald Prof.
 Mennie, J. H., BSc *Oxon.*, MA *Br. Col.*,
 PhD Assoc. Prof.
 Nicholls, R. V V., MSc PhD, FCIC
 Taurins, A, DrChem *Riga* Assoc. Prof.
 Ross, A. S., BA *W. Ont.*, AM *Oberlin*, PhD Assoc. Prof.
 Holcomb, R. K., BSA PhD Assoc. Prof.
 Schuff, H I, MA PhD *Tor.* Assoc. Prof.
 Schon, A., MSc PhD *Manit.* Asst. Prof.
 Edward, J T., DPhil *Oxon.*, BSc PhD
 Onyszczuk, M., MSc *W. Ont.*, BSc PhD Asst. Prof.

Robertson, R. F., BA *Br. Col.*, PhD Asst. Prof.
 Just, G., IngChem *E. Th. Zurich*,
 PhD *W. Ont.* Asst. Prof.
 Shelstad, R A, BEng *Sask.*, MSc *Dal.*,
 PhD *Tor.* Asst. Prof.
 Cave-Brown-Cave, G., MA *Br. Col.*,
 PhD *M. I. T.* Asst. Prof.
 7 Demrs

Classics

Counsell, E M., MBE, MA *Oxon.* Assoc. Prof.
 McCullagh, P F, BA *Tor.*, PhD *Chic.*, MA Assoc. Prof.
 Gordon, C D., BA *Alta.*, MA PhD *Mich.* Assoc. Prof.
 Vallhille, G A., MA Asst. Prof.
 Garstang, J. B. E., MA *Oxon.* Lectr.
 Schachter, A, BA Lectr.
 Spence, E Marie, BA *Alta.*, MA *Bryn Mawr* Lectr.

Commerce

Woods, H. D., BA *New Br.*, MA
 (Indust. Relns.) Bronfman Prof., Dir.,
 Indust. Relns. Centre
 Armstrong, D. E., BA BCom *Alta.* Prof., Dir., of Sch.
 Briant, P C, BCom Assoc. Prof.
 Pugsley, W. H., BCom Assoc. Prof.
 Marshall, A R, BCom *Dal.* Asst. Prof.
 Willis, R. S., LLD *Montpelier*, BCL †Lectr.
 Boire, R S, BCom, CA †Lectr.
 Kovacs, Aranka, BA *McM.*, MA *Tor.*,
 PhD *Bryn Mawr* Lectr.
 13 Demrs

Dentistry

Johnston, W J, DDS †Prof.
 Franklin, G, DDS, FACD †Prof.
 Gerrie, J W, BA DDS *Alta.*, MD CM
 DLO †Prof.
 Ereaux, L. P., BSc MD CM Clin. Prof.
 McCutcheon, J., MSD *Mich.*, BA DDS Prof.
 Rogers, M. A., BA *Bishop's*, DDS Assoc. Prof.
 Racey, A G., DDS, FACD †Assoc. Prof.
 Walford, W F, DDS †Assoc. Prof.
 Ambrose, E R, DDS Asst. Prof.
 Dagg, R. E., DDS †Asst. Prof.
 Guilboud, T. I., BA *Loyola*, DDS †Asst. Prof.
 Francis, L E., DDS Asst. Prof.

Merchand, P. R., DDS	†Asst. Prof.	Wright, D. M., LLB <i>Virginia</i> , MA	
McMahon, R. E., DDS	†Asst. Prof.	PhD <i>Harv</i>	William Dow Prof.
Boyles, W. H., DDS	†Asst. Prof.	Mallory, J. R., BA <i>New Br.</i> , MA <i>Dal.</i>	
Gitnick, P. J., DDS	†Asst. Prof.	LLB <i>Edin</i>	(Pol. Sci.) Prof.
Henry, D. W., BA <i>Bishop's</i> , DDS	†Asst. Prof.	Supple, B. E., BSc <i>Lond</i> , PhD <i>Camb</i>	
Rosen, H., BSc DDS	†Asst. Prof.		Assoc Prof
Faith, R. W., BA DDS	Asst Prof	Brecher, I., PhD <i>Harv.</i> , BA	Assoc Prof.
Lamb, R. T., BSc DDS	†Lectr.	Callard, K. B., BSc <i>Lond</i>	Assoc. Prof.
Abraham, J. W., MM, DDS	†Lectr.	Culliton, J. T., BA <i>Sask.</i> , MA	Assoc. Prof.
Armstrong, G. D., DDS	†Lectr.	Weldon, J. C., BA PhD	Assoc. Prof.
Cameron, A. F., DDS	†Lectr.	Brecher, M., BA PhD <i>Yale</i>	Assoc. Prof.
Cleveland, E. T., DDS	†Lectr.	Frankel, S., MA	Asst. Prof.
Colle, A. J., DDS	†Lectr.	Ostry, Mrs Sylvia, MA PhD	Asst. Prof.
Dorion, E. S., BA <i>Ott.</i> , DDS	†Lectr.	Oliver, M., BA PhD	Asst. Prof.
Dundass, R. P., MDent <i>Msch</i> , DDS	†Lectr.	Asimakopulos, A., PhD <i>Camb.</i> , MA	Asst. Prof.
Edmison, R. S., BCom <i>Qu</i> , DDS	†Lectr.	Pal, I. D., MA <i>Pany.</i> , MSc	Lectr.
Freedman, S. O., BSc MD CM	†Lectr.	Binhammer, H., BA <i>West Coll</i> , MA <i>Qu.</i>	
Gill, L. A., BA DDS	†Lectr.		Sessl. Lectr
Harvey, R. F., DDS	†Lectr.	Pillai, N. G., MA <i>Delhi</i>	Sessl. Lectr
Hebert, M., BA <i>Loyola (Montr.)</i> , DDS	†Lectr.	Plunkett, T., BA <i>Str G. Wms</i> , MA	Sessl. Lectr
Houghton, V.	†Lectr.	Rodgers, R. S., BA <i>Str G. Wms</i> , MA <i>Col</i>	
McCarthy, J. J., BSc <i>St. F. X.</i> , DDS	†Lectr.		Sessl. Lectr.
Millar, E. P., DDS	†Lectr.	Simcoe, L., BA BCL	Sessl. Lectr
Richardson, A. D., DDS	†Lectr.	2 Assts.	
Rosen, L. J., DDS	†Lectr.		
Shizgal, D. T., DDS	†Lectr.	Education , see also Macdonald Coll., p. 217	
Stalker, A., BA BCC	†Lectr.	Munroe, D. C., MA Prof., Dir, Inst. of Educn	
Stewart, J. D., BSc DDS	†Lectr.	Macdonald Prof.	
Stockwell, W. G., DDS	†Lectr.	Currie, A. B., BCom <i>Qu</i> , MA <i>MEd Alta.</i> ,	
Wiener, R. M., MS <i>Chic.</i> , DDS	†Lectr.	PhD <i>Lond</i>	Assoc. Prof.
30 Demrs †		Wood, Winona, BA <i>Bed Sask</i> , MA <i>Col.</i>	
		Dipl <i>McG Sch of Phys Educn</i>	Asst. Prof.
		Wilkinson, R. E., MA <i>Col.</i> , BSc	Asst. Prof.

Divinity

Frost, S. B., BD MTh <i>Lond.</i> , DPhil <i>Marburg</i>	Prof.
Jay, E. G., MA <i>Leeds</i> , PhD <i>Lond.</i>	Prof.
Johnston, G., MA BD Hon DD <i>Glas</i> , PhD <i>Camb.</i>	Prof.
Smith, W. C., BA <i>Tor.</i> , PhD <i>Pryn.</i>	
(Compar. Relig.) Birks Prof	
Walsh, H. H., MA <i>KC N S</i> , BD <i>Gen</i>	
<i>Synod.</i> , STM <i>General Theol. Sem</i> , PhD	
<i>Col</i> (Church Hist.) Prof.	
McLelland, J. C., BA <i>McM.</i> , MA <i>Tor.</i> ,	
BD <i>Knox (Tor.)</i> , PhD <i>Edin.</i>	†Assoc Prof
Boorman, J. A., BA <i>Alta</i> , MA PhD <i>Col</i>	†Asst. Prof
Evans, D. D., BA <i>Tor</i> , BPhil <i>Oxon</i> ,	
BD	Asst. Prof
Kirby, J. C., STB <i>General Theol Sem</i> ,	
BA STM	Lectr
Oxtoby, W. G., AB <i>Calif</i>	Lectr

Economics and Political Science

Beach, E. F., BA <i>Qu.</i> , AM PhD <i>Harv.</i>	
Bronfman Prof.	
James, F. C., BCom <i>Lond</i> , AM PhD	
<i>Penn</i> , Hon DSc <i>Clarkson</i> , Hon	
DUMont., Hon DCL <i>Bishop's</i> , Hon	
LLD <i>Qu</i> , N.Y., <i>Sask</i> , <i>Manit.</i> , <i>Tor</i> ,	
<i>Syr</i> , <i>Lond</i> , <i>Ursinus</i> , <i>New Br.</i> , <i>McM</i> ,	
<i>Birm.</i> , <i>Pany</i> , <i>Camb.</i> , & <i>Alta</i> , FRScan	
(Pol Econ.) Prof., Principal & Vice-	
Chancellor of Univ.	

Embryology, see Anat

Engineering, see below

English Language and Literature

Walker, R. S., MA <i>Camb & Aberd</i>	Molson Prof.
Files, H. G., AM PhD <i>Harv</i>	Greenshields Prof.
Hemlow, Joyce, MA <i>Qu</i> , AM PhD <i>Harv.</i>	Prof.
MacLennan, H., BA <i>Dal.</i> , MA <i>Oxon</i> , AM	
PhD <i>Pryn</i> , DLitt <i>W Ont.</i> , Hon. LLD	
<i>Sask</i>	†Assoc. Prof
Lucas, A., MA <i>Qu</i> , AM PhD <i>Harv.</i>	Assoc. Prof.
Malloch, A. E., MA <i>Tor.</i>	Assoc. Prof.
Beresford-Howe, Constance, PhD <i>Brown</i> ,	
MA	Asst. Prof
Dudek, L., MA <i>Col</i> , BA	Asst. Prof
Sleigh, G. F., MA <i>Aberd.</i> , BLitt <i>Oxon</i> .	
	Asst. Prof.
Klima, S., MA PhD <i>Yale</i>	Asst. Prof.
Cecil, C. D., BA <i>Dartmouth</i> , MA <i>Oxon</i>	
	Asst. Prof
Puhvel, M., MA PhD <i>Harv.</i>	Asst. Prof.
Heuser, E. A., PhD <i>Harv</i> , BSc MA	Asst. Prof.
Massey, I., AM <i>Col</i> , PhD <i>Harv</i> , BA	Asst. Prof.
Simpson, Margery E., BA	Lectr.
Sproule, H., BA <i>Dal.</i>	Lectr.
Booth, W. T., BA	Lectr.
Farageh, F. M., BA <i>Calif.</i> , MFA <i>Yale</i>	Lectr.
Wallace, D., BA	Lectr.

Eakins, Mrs. Rosemary, MA Sess Lectr
 Stacy, P. H., BA Col, MA Conn Lectr
 Mathewson, G., BA Harv, BLitt Oxon Lectr
 Meir, C., MA Dub Lectr

Fine Arts

Judkins, W. O., AM Harv. Assoc. Prof
 Galvaris, G., BA Athens, MFA PhD Prin. Asst. Prof.
 Viau, G. †Asst. Prof

French, see Romance Langs

Genetics

Boyes, J. W., MSc Sask., PhD Wis John & Anne Melson Prof
 Fraser, F. C., BSc Acad., MD CM MSc PhD Assoc. Prof
 Boothroyd, E. R., BSc Bishop's, MSc PhD Assoc. Prof.
 Grant, W. F., MA McM., PhD Virginia Asst. Prof
 Naylor, A. F., ALP PhD Chic Asst. Prof
 Metrakos, J. D., MSc PhD Asst. Prof & Res Fellow
 Kaper-Boothroyd, Etta, DPhil Zur. Lectr

Geography

Hare, F. K., BSc Lond., PhD Montr., FRMetS Prof, Dir of Geog Summer Sch
 Lloyd, T., MA Dartmouth, PhD Clark, DSc Brist. Prof
 Bird, J. B., MA Camb. Assoc. Prof
 Hills, F. L., MA Camb. Assoc. Prof
 Drummond, R. N., MSc Asst. Prof
 Jacobson, G., BSc Vienna †Hon Lectr
 Brown, Joyce C., MSc Lond. Lectr
 Macbie, G. H., BA Tor Lectr.
 Innes, F. C., BSc Glas. Lectr
 Parry, J. T., BA Oxon., MSc Ltv Lectr
 3 Res. Assoc

Geological Sciences

Clark, T. H., AM PhD Harv., FGSA, FRSCan (Palaeontol.) Logan Prof.
 Gull, J. E., PhD Prin., BSc, FRSCan Dawson Prof
 Kranck, E. H., DSc Helsinki Prof
 Stevenson, J. S., BA BASc Br Col, PhD M.I.T., FGSA, FRSCan Prof
 Stearn, C. W., BSc McM., MS PhD Yale Assoc. Prof; Asst. Dean, Grad Fac
 Saull, V. A., DSc M.I.T., BSc Assoc. Prof.
 Elson, J. A., BSc W Ont., MSc McM., PhD Yale Asst. Prof
 Frueh, A. J., SM PhD M.I.T. Asst. Prof.
 Webber, G. R., BSc Qu., MSc McM., PhD M.I.T. Asst. Prof.
 Clark, L. A., MSc Sask., PhD Asst. Prof
 Eakins, P. R., MSc PhD Asst. Prof
 Reed, J. C., BSc Pem., PhD Prin., DSc Alaska Hon Lectr

German

Reiss, H. S., BA Dub, PhD Lond Prof.
 Meyer, Bertha, MA Assoc. Prof
 Latwinowicz, V. N., MPh Warsaw, DLitt Rome Asst. Prof
 Block, V., MA Asst. Prof
 Westwood, J. N., BCom Birm., MA Montr. Lectr.
 1 Res. Assoc

Graduate Studies and Research, see below

Greek, see Classics

Histology, see Anat.

History, see also Div.

Fieldhouse, H. N., BA Oxon., MA Sheff., FRSCan Kingsford Prof.
 Bayley, C. C., MA Manc., PhD Chic Prof
 Cooper, J. L., MA W Ont., PhD Assoc. Prof.
 Reid, W. S., ThM Westminster (Pa.), PhD Penn., MA Assoc. Prof
 Mladenovic, M., BCom ML Belgique, DLL DScScPol DScScEcon DipdesHautes EtudesSoc Paris Assoc. Prof
 Zagorin, P., AB Chic, MA PhD Harv. Asst. Prof.
 Vogel, R., BA SirG Wms, MA Lectr

Household Science, see Macdonald Coll, p. 217

Islamic Studies

Smith, W. C., BA Tor., PhD Prin. Birks Prof, Dir of Inst
 Rahman, F., MA Pary, DPhil Oxon Assoc. Prof
 Berkes, N., LèL Istanbul, Docent Ankara Assoc. Prof
 Callard, K. B., BSc Lond. Assoc. Prof
 Rasjidi, M., LèL Fuad I, DUParis Assoc. Prof
 Adams, C. J., AB Baylor, PhD Chic Asst. Prof
 Williams, J. A., BA Arkansas, MA PhD Prin. Asst. Prof.

Italian, see Romance Langs

Latin, see Classics

Law, see below

Library Science, see below

* Logic, see Philos

Mathematics

Rosenthal, E., PhD Cal.Tech., MSc Prof.
 Tate, H., BSc N.U.I., MA Dub. Prof.
 Fox, C., MA Camb., DSc Lond. Prof.
 Wallace, P. R., MA PhD Tor. Prof.

Schwerdtfeger, H. W. E, DrPhil Bonn, MA Melb Prof.
 Solin, C. D., PhD Tor., MA Prof.
 Prof., Asst. Dean, Fac. of Arts & Sci
 Guttman, I. P., MA PhD Tor., BSc Assoc. Prof.
 Evans, A., MSc Wales, PhD Camb Assoc. Prof.
 Kaufman, H., MSc PhD Assoc. Prof.
 Lambek, J., MSc PhD Assoc. Prof.
 Morris, T. F., MA PhD Tor Assoc. Prof.
 Sharp, R. T., MSc Assoc. Prof.
 Rattray, B., PhD Pm., MSc Assoc. Prof.
 Findlay, G. D., BSc Glas., BA Camb Assoc. Prof.
 Waugh, W. A. O., MA DPhil Oxon Assoc. Prof.
 Bach, G. G., BSc Alta, MSc Birm., PhD Asst. Prof.
 Thorpe, W. D., MA Camb Asst. Prof.
 Herschorn, M., BA Asst. Prof.
 Melamed, S., BSc Asst. Prof.
 Kahana, S., MSc Manut., PhD Edin Asst. Prof.
 Sussman, D., MA Asst. Prof.
 Aggarwala, B. D., BA PhD Pany Asst. Prof.
 Cavadias, G., BSc Athens, MSc Asst. Prof.
 Joffe, A., LèsSc Brussels, PhD Conn Asst. Prof.
 Griffiths, I. F., BA Wales Lectr.
 Goldrich, A. I., BA Montr Lectr.
 Kingsbury, D. M., BSc Lectr.
 Shupe, J. F., MSc Dal Lectr.
 Shtern, I. H., BSc SirG Wms., MA N Y Lectr.
 Schwerdtfeger, Mrs. Hanna Lectr.
 Ritey, L. F. S., BA Mt All., MA Harv., PhD Chic Sp Lectr.
 Teitelbaum, A. D., BSc Lectr.
 Bonyun, Mrs. Rosemary, BSc Bishop's Lectr.
 Bonyun, D. A., BA Bishop's Lectr.
 Connell, I. E., MSc Manut Lectr.
 Costley, C. G., BA Fish, MA PhD Ill Lectr.
 Klotz, J., BA PhD Calif Lectr.
 Henniger, J. P., BSc †Lectr.
 Poland, J., BSc †Lectr.
 Rosenfeld, Z., DipEd Israel, MA Lectr.
 9 Demrs., 1 Res Assoc.

Medicine, see below

Metallurgy, see Engineering, below

Meteorology

Marshall, J. S., MA Qu., PhD Camb Prof.
 Douglas, R. H., BSc Alta, MA Tor., PhD Assoc. Prof.
 Orng, S., BSc Oslo, MSc PhD Assoc. Prof.
 Boville, B., BA Tor., MSc Asst. Prof.

Mining, see Engineering, below

Music

Duchow, M., BA N.Y., MA Roch., MusB Prof.
 Brott, A., LMus Assoc. Prof.
 Blume, H., MusB Berlin Acad Music Assoc. Prof.
 Anhalt, I. Asst. Prof.
 11 Instrs

Nursing, see Sch. for Grad. Nurses, below

Palaeontology, see Geological Sciences

Parasitology, see Macdonald Coll., Inst. of Parasitol., p. 218

Philosophy

Henderson, T. G., PhD Harv., MA Prof.
 Klibansky, R., MA Oxon., DPhil Heidel (Logic & Metaphysics) Frothingham Prof.
 Miller, J. W., AB Mich., PhD Harv. Macdonald Prof.
 Currie, C., PhD Harv., MA Assoc. Prof.
 McKinnon, A. T., MA Tor., PhD Edin Assoc. Prof.
 Gombay, A., BPhil Oxon., MA Lectr.
 McCall, R. S., BPhil Oxon., BA Lectr.
 Ross, J. D., BA Lectr.

Physical Education, see below

Physics

Marshall, J. S., MA Qu., PhD Camb Macdonald Prof.
 Woonton, G. A., MA W Ont., FRSCan Macdonald Prof., Dir. of Electronics Res. Lab.
 Pounder, E. R., BSc PhD Prof.
 Bell, R. E., MA Br Col., PhD Ruthersford Prof., Dir. of Radiation Lab.
 Gunn, K. L. S., BA W Ont., MSc PhD Assoc. Prof.
 McPherson, Anna I., PhD Chic., BA MSc Assoc. Prof.
 Martin, W. M., BSc Qu., PhD Assoc. Prof.
 Teiroux, F. R., BA Loyola, PhD Camb, MSc Assoc. Prof.
 Hirschfeld, W. F., BASc Tor., PhD Assoc. Prof.
 Matheson, J. F., BA Sask., PhD Asst. Prof.
 Stansbury, E. J., MA PhD Tor. Asst. Prof.
 Stevenson, D. R., BASc Tor., MSc Mich., ScD MIT, Asst. Prof.
 Carruthers, J. A., MA W Ont., PhD Asst. Prof.
 Langleben, M. P., MSc PhD Asst. Prof.
 Kavanagh, T. M., MA Sask., PhD Lectr.
 3 Demrs., 4 Res. Assocs.

Physiology

MacIntosh, F. C., MA Dal., PhD Drake Prof.
 Burgen, A. S. V., MB BS Prof.
 Burns, B. D., BA Camb. Prof.
 Terroux, Miss Kathleen G., BA MSc PhD Assoc. Prof.
 Dworkin, S., MSc DDS MD CM †Asst. Prof.
 Sekely, P., BE DrElectPhys T.H. Karlsruhe †Asst. Prof.
 Grafstein, Bernice, BA Tor., PhD Asst. Prof.
 Burks, R. I., BA MSc PhD Asst. Prof.
 Bliss, J. Q., BA MD Tor. Asst. Prof.
 Reiminger, E. J., MSc Ill., PhD Ohio Asst. Prof.
 Pinsky, C., BSc SirG Wms., MSc Lectr.
 Solandt, O., MA MD Tor. †Lectr.
 2 Demrs

CANADA

Physiotherapy, see Physical and Occupational Therapy, below

Political Science, see Econ and Pol Sci

Psychology, see also Medicine, below

Hebb, D. O., BA *Dal*, PhD *Harv.*, MA Prof
Ferguson, G. A., BA *Dal*, BEd PhD *Edm.* Prof
Webster, E. C., MA PhD Prof
Bindra, D., BA *Parg.*, MA PhD *Harv.*

Lambert, W. E., MA PhD *N Carolina* Assoc Prof

Poser, E. G., MA *Qu.*, PhD *Lond* Assoc Prof

Milner, P. M., BSc *Leeds*, MSc PhD Assoc Prof

Rabinovitch, S., PhD *Indiana*, MA Assoc Prof

Douglas, Mrs Virginia, BA *Qu.*, MA Assoc Prof

MSW PhD *Mich* Sessl Lectr

Stern, Mrs Muriel, BSc Asst. Prof

Wigdor, Mrs Blossom, MA *Tor.*, BA PhD

Anderson, C., BEd *Sask*, MSc †Lectr

Dufresne, G., MA PhD *Montr* Lectr

Rowe, Patricia, BA *Tor*, MA *Dal*. Sessl. Lectr.

4 Demos., 4 Res Assocs.

Romance Languages

Launay, J. E. L. LèsL Dpld'ÉtSup *Paris* (French) Prof

d'Andres, A., PhD *Pisa* (Italian) Assoc. Prof

Härröpp, L. B., MA *Interamericana (Mexico)*, DipEd *W.Aust.*, DipEstHisp *Santander*, BA (Spanish) Assoc. Prof

Larivière, Mrs. Hélène, LèsL Assoc. Prof

Reverchon, Marie-Thérèse, LèsL Assoc. Ptof

Dipld'ÉtSup *Paris* Assoc. Ptof

Henry, Mrs Robina E., MA *Dub.*, Assoc. Prof

Champigneul, Yvonne, LèsL Assoc. Prof

Dipld'ÉtSup *Toulouse* Asst. Prof.

Rugault, A. A., LèsL Dpld'ÉtSup *Paris* (French) Asst Prof, Dir. of French Summer Sch

Romer, T., LèsScPol&Soc *Lausanne* Asst. Prof

Stegen, G. F., BA *SurG Wms*, MA *Middlebury* (Spanish) Asst Prof

Harvey, Mrs Monica, DPhil&Lit *Madrid*, BA Asst Prof

Jackson, G. D., BA *Manit.*, MA *Tor.* Lectr

Rabotin, M., LèsL *Paris* Lectr

Jones, H. C., BA *Paris*, DUToulouse Lectr.

Deschamps, Nicole, BA LèsL *Laval*, DUParis Lectr.

Ruiz-Fornells, E., BA *Seville*, PhD *Madrid* Lectr

Social Work, see below

Sociology and Anthropology

Westley, W., PhD *Chic.*, MA Prof

Ross, Aileen D., BSc(Econ) *Lond*, MA PhD *Chic* Assoc Prof

Elkin, F., AM PhD *Chic.* Asst. Prof.

Fried, J., AB *Temple*, PhD *Yale* Asst. Prof.

Yatsushiro, T., BA *Redlands*, PhD *Corn.*

Solomon, D. N., MA PhD *Chic* Asst Prof.

Roseborough, H., MA *Tor*, PhD *Harv.* Asst Prof.

Lamb, Mrs Sylvia, BA *SurG Wms*. Asst Prof

Spanish, see Romance Langs. †Lectr.

Spanish, see Romance Langs.

Zoology, see also Macdonald Coll, Inst. of Parasitol, p. 218

Stanley, J., BA *Br.Col.*, MA PhD *Minn.* Prof

Berjill, N. J., BSc *Brist.*, PhD DSc *Lond*, FRSCan, FRS Strathcona Prof.

Dunbar, M., MA *Oxon*, PhD, FRSCan Prof.

Marsden, Mrs Joan C., PhD *Calif.*, MSc Asst Prof.

Cameron, A. W., BA *Acad.*, MSc *Corn.*, PhD Sessl Lectr

Steele, Mrs. V. Julie, MSc Sessl. Lectr.

ENGINEERING

Architecture, see above

Chemical Engineering, see also Chem, above

Phillips, J. B., MBE, MSc PhD, FCIC Prof.

Douglas, W. J. M., BSc *Qu.*, MSE PhD *Mich*. Asst Prof.

Shelstad, K. A., BEng *Sask*, MSc *Dal.*, PhD *Tor* Asst. Prof

1 Demr.

Civil Engineering and Applied Mechanics

Craig, C., BA MEng William Scott Prof.

de Stein, J. L., BEng *Sask.*, MEng Prof.

Arcand, L. J., BSc MEng Assoc. Prof.

Pakalnis, A., DipCEng *T U Berlin*, DEngSc *Latvia* Assoc. Prof.

Wilson, V. W. G., SM *M I T*, BSc Assoc. Prof.

Joly, G. W., BA *Loyola*, MEng Assoc Prof

Neilson, S. A., BSc Assoc Prof.

Harris, P. J., BSc *Manit.*, MEng Assoc Prof.

Mathison, W., BSc *Glas* Asst Prof.

Selby, D. A., BEng Asst Prof.

Yong, R., BA *Washington & Jefferson*, ScB(CivilEng) *M I.T.*, MSc(CE) Asst. Prof.

Purdue Ahmed, S., BSc *McLagan Coll* Lectr

Perks, W. T., MCD *Lav*, BEng Lectr.

Electrical Engineering

d'Ombrun, G. L., BSc(Eng) PhD *Lond*.

Macdonald Prof.

Howes, F. S., DIC, PhD *Lond.*, MSc Prof.

Schippel, W. H., BSc MEng Assoc. Prof.

Pavlasak, T. J. F., MEng Assoc. Prof.

Farnell, G. W., BASc *Tor.*, SM *M I T* Assoc. Prof.

Barton, T. H., BEng PhD *Sheff* Assoc. Prof.

Comsa, R. P., Diplng *E T H.Zürich* Asst. Prof.

Adler, E. L., BSc *Lond.*, MAsc *Tor* Asst Prof
 Bradley, C. W., BEng Lectr
 Howarth, B. A., BEng Lectr
 Malowany, A., BEng Lectr
 Schwartz, H. H., BEng Lectr
 8 Demrs

Mathematics, see above

Mechanical Engineering

Mordell, D. L., MA *Camb.* Prof
 Bruce, W., MAsc *Tor* Prof
 Newman, B. G., MA *Camb.*, PhD *Syd.* Prof
 Edis, A. R., BSc *Lond.*, BEng Assoc Prof
 Stachiewicz, J. W., MEng Assoc Prof
 Cherna, J. C., Diplng *E.T.H. Zürich*
 Covo, P. V., BEng Assoc Prof
 Thompson, A. L., BA *Bishop's*, PhD Assoc Prof
 Swthenbank, J., BSc *Birm.* Assoc Prof
 Wu, J. H. T., BSc *Tsinghua*, MAsc *Tor* Assoc Prof
 Forde, J. M., BEng Asst Prof
 Glynn, B. C. C., Asst Prof
 McKay, A. R., BEng Asst Prof
 Howitt, F., Asst Prof
 Hyder, S. S., BS *Agh* Asst Prof
 Levine, S., MEng †Lectr
 Herbst, E., Lectr
 Murphy, C. L., DIC, BSc *Manit* Lectr
 O'Shaughnessy, M. D., MEng Sessl Lectr
 Short, B., BEng Lectr
 Zaombor-Murray, P. J., BEng Lectr
 3 Demrs.

Mining and Metallurgical Engineering

Morrison, R. G. K., BAsc *Tor*
 (Mining) Macdonald Prof
 Geldart, L. P., BA *Mt. All.*, MA *Tor.*, PhD George Boyd Webster Prof.
 Yates, H. H., BSc PhD Assoc Prof
 Telford, W. M., MSc PhD Assoc Prof
 Salman, T., MEng Asst Prof
 Eastale, C. D., BSc *Lond.* Asst Prof
 Jonas, J. J., PhD *Camb.*, BEng Asst Prof
 Williams, W. M., MSc *Brist.*, PhD *Tor* Asst Prof
 Coates, D. F., MA *Oxon.*, & *McG* †Lectr
 Sirois, L. L., BA *Montr.*, BEng Lectr
 Smith, G. W., BEng Sp Lectr
 5 Demrs.

Physics, see above

GRADUATE STUDIES AND RESEARCH

Thomson, D. L., BSc MA *Aberd.*, PhD *Camb.*, DSc *Colby* & *McM.*, LLD *Aberd.* & *Middlebury*, FCIC, FRSCan
 Cheney Prof of Biochem., Dean
 (Grad. instructn. and supervision of res are undertaken by members of all Depts of the Univ.)

LAW

Scott, F. R., BA *Bishop's* & *Oxon*, BA BLitt
Oxon, Hon LLD *Dal*, BCL, FRSCan
 Macdonald Prof
 Rosevear, A. B., LLB *Manit*, BA
 Assoc Prof, Dir, Inst of Air & Space
 Law
 Baudouin, L., DenDroit *DèsScJur*
 DesScPol *Paris* Prof.
 Cohen, M., BA LLB *Manit*, LLM *Northwestern* Prof
 Crepeau, P. A., BA LPh *Ott*, LLL *Montr.*, BCL *Oxon.*, DenDroit *Paris* Assoc Prof
 Durnford, J. W., BA BCL Assoc Prof
 Cheffins, R. I., BA LLB *Br.Col.* Assoc Prof
 Blumenstein, J. H., MA BCL †Lectr
 Casgrain, P., BA LLL *Laval* †Lectr
 Claxton, J. B., BCL †Lectr
 Chalmes, Mr. Justice G. S., MA MCL †Lectr
 Clarkson, R., BA BCL †Lectr
 Cohen, J., QC, BCL †Lectr
 Colle, A. J., DDS †Lectr
 Common, F. B., BCL †Lectr
 Fels, S. S., BCL †Lectr
 De Grandpré, L. P., BA *Montr.*, BCL †Lectr
 Gold, A. B., BA *Qu*, LLL *Montr* †Lectr
 Grant, W. A., BA BCL †Lectr
 Le Dain, G. E., DULyons, BCL †Lectr
 Meyer, P., BA BCL †Lectr
 Tetley, W. A., LLL *Laval*, BA †Lectr
 Gazdik, J. G., DCL DrPolSc *Pécs*, MCL †Lectr
 Gould, G. H., BA BCL †Lectr
 Hitzig, S., BCom †Lectr
 Kierans, P. E., BCL †Lectr
 Kirkpatrick, J. G., BSc BCL †Lectr
 LaChapelle, R., BA *Montr.*, BCL †Lectr
 Lacroix, E., QC, BA †Lectr
 Lapointe, M., BA *Montr.*, MCL †Lectr
 Leveque, R., LLB *Montr* †Lectr
 McQuillan, W., BA *Loyola (Montr.)*, BCL †Lectr
 Menfield, R. R., BA BCL †Lectr
 Merling, S., BA BCL †Lectr
 Montgomery, T. H., MC, BA BCL †Lectr
 Nolan, J. A., QC, BA BCL †Lectr
 O'Connor, J. B., BA *Loyola*, BCL †Lectr
 Oummet, R., BA PhL *Ort* †Lectr
 Owen, G. R., BCL MA †Lectr
 Soden, J. A., BCL †Lectr
 Spector, J. J., QC, BA BCL †Lectr
 Tamaki, G. T., BA *Br Col*, LLB *Dal*, LLM *Tor* †Lectr
 Tees, H., BA BCL †Lectr
 Thorsteinsson, N. P., LLB *Br.Col.* †Lectr
 Tyndale, W. S., BA BCL †Lectr
 Vineberg, P., BCL MA †Lectr
 Weber, S. W., QC, LLM *Montr*, BA †Lectr
 Weldon, A. M., BA BCL †Lectr

LIBRARY SCHOOL

Ross, Miss Vernon, BS(nLibSc) *Col*, MA
 Assoc Prof., Dir.
 Murray, Virginia, MA *Col*, BLS Assoc Prof
 Astbury, Effie C., BA BLS Asst Prof

CANADA

Coughlin, Mrs Violet L, BSc BLS Asst Prof
Anderson, Beryl, MA *Dal.*, BLS Lectr.
Pennington, R, BA *Lond* †Lectr

MEDICINE

(For subjects of first 2 yrs—Anat, etc,
see above)

Stevenson, L G, BA MD W.Ont., Dean of Fac
PhD *Johns H*

* Anæsthesia

Robson, J G, MB ChB *Glas*, FFARCS Wellcome Prof
Gilbert, R G B, MB BS *Lond.* Assoc Prof
Cullen, W G, BA MD *Tor* †Asst Prof
Davenport, H T, MB ChB *Liv* †Asst Prof
Ferguson, R., MBE, MD *Tor.* †Asst Prof
Noble, A B., MD *Tor* †Asst Prof
Power, D. J., MB ChB *Dub* †Asst Prof
Ellison, Mrs. Gladys, MD *Manit* †Asst Prof
Bromage, P R, MB BS *Lond.*, FFARCS

Miller, R. A., MB ChB *Edn.* †Asst. Prof.
O'Shaughnessy, P. E., MD CM †Lectr
Brindle, G F, MD CM †Lectr
Kelly, J. J., BA *St F.X.*, MD CM †Lectr
Sutherland, J B. L., BSc MD CM, FRCP †Lectr
3 Demrs

Anatomy, see above

Bacteriology and Immunology

Reed, R. W., MA *Qu*, MD CM Prof
Stevenson, J. W., MD CM *Qu* Assoc Prof
Kalz, Gertrude G, DPH *Prague*, MD
Blank, F., DSc(NatSci) DSc(TechSci) *E T H.* Assoc. Prof.
Zurich Asst. Prof
Butas, Mrs. Constandina A., MD *Clig* Asst. Prof
Masson, Anne M., BA *Stras.*, MD *Paris* Asst. Prof
Vas, S., MD PhD *Bud* Asst. Prof
Matheson, B. H., MSc *Dal.*, PhD Asst. Prof
Cooke, Mrs Patricia, BA *Br Col* Lectr.
Franklin, M., BSc *R'dg*, PhD Lectr.
Nomnik, Miss Salme, MSc †Lectr
Kapica, L., BSc *Wales* Lectr.
Mankiewicz, Edith, MSc *Leip.*, MS *Lyons* †Lectr.
Morganti, O., MD *Rome*, MSc †Lectr.
Silov, R., MD *Dorpat (Tartu)* Lectr

Biochemistry, see above

Clinical Therapeutics

Fullerton, C W, MD CM, FACP Assoc. Prof

Gynæcology, see Obstet. and Gynæcol

Health and Social Medicine

Vivian, R. P., MD *Tor* Strathcona Prof
Fleming, D. S., DPH *Tor*, BA MD CM Assoc. Prof.
MacMillan, C. W., MD CM *Dal.*,
DPH *Tor.* Assoc Prof
Nix, Margaret E., BA MPH PhD *Mich* Assoc Prof.
Bain, Mrs Marian A., MSc *Col.*, BHS Asst. Prof.
Burke, H. E., MD CM MSc PhD †Asst. Prof.
Townsend, M. G., MD CM †Lectr.
Wæner, F., MD CM †Lectr.
Jones, F. M. †Lectr
Bews, D., MD CM *Qu.* †Lectr
1 Demr.

Medicine

Browne, J. S. L., BA BSc(Med) MD CM
PhD, FACP, FRCPCan, FRSCan
(Investigative Med.) Prof
Christie, R V., MD *Edn.*, MSc Prof.
Cameron, D G, MC, BSc *Oxon & Sask*,
MD CM, MRCP Prof.
Venning, Eleanor H, MSc PhD Prof
Ereux, L. P., BSc MD CM †Assoc Prof.
Feeney, N, BA *Loyola (Mont)*, MD CM,
FACP †Assoc. Prof.
Solomon, S, MSc PhD Assoc Prof
Forsey, R, MD *Tor*, FRCPCan †Assoc. Prof
Fullerton, C. W., MD CM, FACP †Assoc. Prof
Hill, W H P., BA MD CM Assoc Prof
Halpenny, G W., BSc MD CM,
FRCPCan, FACP Assoc. Prof.
Hoffman, M. M., BA MSc *Dal*,
MD CM PhD †Assoc. Prof
Howlett, J G, MD CM MSc, FRCPCan †Assoc. Prof.
Mitchell, H S., BA MD *Qu.*, FACP †Assoc. Prof.
Rose, B., BA MD CM MSc PhD Assoc Prof.
Bates, D V, MB BChir *Camb.*, MD,
MRCP Assoc. Prof.
Bensley, E H, MBE, BA MD *Tor*,
FRCP Assoc. Prof
Johnson, A. L., MD CM †Assoc Prof
Beck, J. C., MD CM MSc DiplIntMed Assoc Prof
Copping, G A, MD CM, FRCPCan Assoc Prof.
Lowenstein, L, BA MD *Vanderbilt*,
FACP Assoc. Prof.
Townsend, S. R., BA MD CM, FACP †Assoc. Prof
Adams, L. J., MD CM, FRCPCan,
FACP †Asst Prof.
Hobkirk, R, BSc PhD *Edm* Asst Prof
Bennetts, R C, AB *Calif*, MD CM †Asst Prof.
Burke, H E, MD CM MSc PhD †Asst Prof.
Craig, G. E., BCom MD CM DTM †Asst. Prof
Johnson, L. G., BSc MD CM,
FRCPCan †Asst. Prof
Kalz, F, MD *Prague* †Asst. Prof.

Ward, C. V., BA *Bishop's*, MD CM,
FRCSCan, FACS †Assoc. Prof.
Foot, W. R., BA *Br Col.*, MD CM,
FACS †Assoc. Prof.
Latour, J. P. A., BSc MD CM †Assoc. Prof.
MacFarlane, K. T., MD *W Ont.*,
FACS †Assoc. Prof.
Simpson, G. A., MD CM, FRCOG,
FACS †Assoc. Prof.
Stearns, G. J., BA MD CM, FACS,
FRCSCan †Asst. Prof.
Primrose, T., BSc MB ChB *Edm* †Asst. Prof.
Sparting, D. W., MD *Tor.*, FACS †Asst. Prof.
MacArthur, J. L., MD *W. Ont.*, FRCSCan,
FACS †Asst. Prof.
Hendelman, M., BA MD CM †Lectr.
Routledge, J. H., MD CM, FRCSCan †Lectr.
Tweedie, F. V., BA *New Br.*, MD CM †Lectr.
Blahey, P. R., BA *Sask.*, MD *Tor.*,
FRCSCan †Lectr.
Donnelly, Grace, MD CM †Lectr.
Gold, S., BSc MD CM †Lectr.
Young, M. H. V., BA MD CM †Lectr.
16 Demrs.

Ophthalmology

Locke, J. C., MD CM †Prof.
Alexander, B., BSc MD CM †Assoc. Prof.
Nicholls, J. V. V., BA MSc MD CM †Assoc. Prof.
Viger, R. J., MD CM †Asst. Prof.
Kirschberg, L. S. S., MD CM †Lectr.
Turnbull, W., MD CM †Lectr.
Adams, S. T., MD CM †Lectr.
Bourne, R. A., BA MD CM †Lectr.
Murphy, S. B., SB *Harv.*, MD CM †Lectr.
7 Demrs.

Oto-Laryngology

McNally, W. J., BA MD CM *Dal.*,
Hon LLD *St F X.*, DSc, FRCSCan †Prof.
Scharfe, E. E., MD CM DLO †Assoc. Prof.
Stuart, E. A., MA *New Br.*, MD CM,
FRCSCan, FRCSEd †Assoc. Prof.
Pannon, R. P., BSc MB ChB *Mane* †Asst. Prof.
McHugh, H. E., BSc MD CM DLO †Lectr.
Shaver, F. W., MD CM †Lectr.
3 Demrs.

Pædiatrics

Ross, A., MD CM †Prof.
Denton, R. L., BSc MD CM †Assoc. Prof.
Geddes, A. K., MD CM †Assoc. Prof.
Worden, E. M., MD *Tor.* †Assoc. Prof.
Johnson, A. L., MD CM MSc †Assoc. Prof.
MacDermot, P. N., MD CM †Asst. Prof.
Bacal, H. L., MBE, BA MD CM †Lectr.
Benjamin, B., BA MD CM †Lectr.
O'Neill, J. H., BSc *St F.X.*, MD CM †Lectr.
16 Demrs., 3 Teaching Fellows

Parasitology, see MacDonald Coll., Inst.
of Parasitol., p. 218

Pathology

McMillan, G. C., MD CM MSc PhD
Strathcona Prof.
Ritchie, A. C., MB ChB *N Z*, DPhil *Oxon*
Fraser Assoc. Prof.
Wiglesworth, F. W., MD *Manit.* †Assoc. Prof.
Mathews, W. H., MD CM †Assoc. Prof.
Pirozynski, W., MD *Zur* †Asst. Prof.
Kahn, D. S., BA *Sask.*, MD *Tor* †Asst. Prof.
Sheldon, H., MD *Johns H.*, BA †Asst. Prof.
Schopflocher, Paula H., MD *Handel* †Lectr.
Mathieson, G., MB ChB *Aberd.* †Lectr.
Semon, M. A., BA MD *W Reserve* †Lectr.
Ritchie, Susan, MD *Munch* †Lectr.
Moore, S., MB BCh *Belf* †Lectr.
3 Demrs., 2 Teaching Fellows

Pharmacology and Therapeutics

Melville, K. I., MD CM MSc (Pharmacol.) Prof.
Benfey, B. G., MD *Hamburg* †Assoc. Prof.
Eade, N. R., MSc *Sask.*, DPhil *Oxon* †Asst. Prof.
Kovacs, B. A., MD *Swaged* †Asst. Prof.
Joron, G., BA *Loyola (Montr.)*, MD CM †Lectr.
Shuster, H., BA MD CM †Lectr.

Physiology, see above

Physiotherapy, see Physical and Occupational Therapy, below

Psychiatry

Cameron, D. E., MD *Glas.*, DPM *Lond.*,
FRCPCan
Prof., Dir, Allan Memorial Inst. of
Psychiatry
Moll, A. E., BCL MD CM †Prof.
Cleghorn, R. A., MD *Tor.*, DSc *Aberd.* †Prof.
Malmo, R. B., MA *Missouri*, PhD *Yale*
(Psychol.) †Assoc. Prof.
Silverman, B., MD CM †Assoc. Prof.
Statten, T., MD *Tor* †Assoc. Prof.
Wittkower, E., MD *Berl.* †Assoc. Prof.
Dancey, T. E., MD CM †Assoc. Prof.
Lehmann, H., MD *Berl.* †Assoc. Prof.
MacLeod, A. W., BSc MB ChB DPH *Glas.*,
DPM *Lond.* †Assoc. Prof.
Saffran, M., MSc PhD †Assoc. Prof.
Sourkes, T. L., PhD *Corn.*, MSc †Assoc. Prof.
Kril, V. A., MD *Prague* †Assoc. Prof.
Albert, S., BA MD CM †Asst. Prof.
Aufreiter, J., MD †Asst. Prof.
Bong, T. J., MB ChB *Liv.* †Asst. Prof.
Bos, C. G., BA MD CM †Asst. Prof.
Azuma, H., BA *Calif.*, MD *Kansas*, MSc
Asst. Prof.
Caplan, H., MD CM †Asst. Prof.
Cormier, B., BA MD *Montr.* †Asst. Prof.
Edgell, P. G., BA *Bishop's*, MD CM †Asst. Prof.
Epstein, N., MD CM *Dal* †Asst. Prof.
Ellenberger, H. F., MD †Asst. Prof.
Hisey, L. G., MD *Tor.* †Asst. Prof.
Davis, J. F., MEng †Asst. Prof.
Roberts, C. A., BSc MD CM *Dal* †Asst. Prof.

Murphy, H. B. M., MB ChB <i>Edin.</i> , DPH <i>Lon.</i> , PhD N.Y.	†Asst. Prof.
Hamilton, R. C., MSc MD <i>Alta</i>	†Asst. Prof.
Birmingham, Marion, BA <i>Bennington</i> , MSc PhD	†Asst. Prof.
Barza, S., BSc MD CM	†Lectr.
Beaubien, J., BSc MD CM DiplPsych	†Lectr.
Hunt, B. R., BM BCh <i>Oxon</i>	†Lectr.
Hunter, R. C. A., MD CM	†Lectr.
Kravitz, H., BA MD CM	†Lectr.
Mann, A., MD CM	†Lectr.
Mergler, L., BSc MD CM	†Lectr.
Sarwer-Foner, G. J., BA MD <i>Montr</i>	†Lectr.
Skitch, C. H., BA MD <i>Alta</i>	†Lectr.
Smith, C. C., BA <i>Ohio</i> , MD CM	†Lectr.
Straker, M., MD CM	†Lectr.
Taylor, G. C., BSc MD CM	†Lectr.
Wilner, S., BA MD CM DiplPsych	†Lectr.
Levy, L., BA <i>Dub</i>	†Lectr.
Levin, D. C., MB BS <i>Lon.</i>	†Lectr.
Krauser, W. G., BA MD CM	†Lectr.
Azma, Mrs. Fern, BA <i>Que.</i> , MA <i>Corn.</i>	†Lectr.
Aufreiter, Friedl., MD <i>Vienne</i>	†Lectr.
Grad, B., BSc PhD	†Lectr.
Cahn, C. H., MD <i>Tor</i>	†Lectr.
Durost, H. B., MD	†Lectr.
Pivnicki, D., MD <i>Belgrade</i>	†Lectr.
Prince, R. H., MD MSc BA <i>W.Ont.</i>	†Lectr.
Stanley, J. C., MB BCh <i>N.U.I</i>	†Lectr.
14 Demrs., 1 Res. Assoc.	

Radiology

Pierce, C. B., AB MSc MD <i>Mich.</i> , FACP, FRCPCan	†Prof.
Bouchard, J. J. L., MD <i>Laval</i> , DMRE <i>Camb</i>	†Assoc. Prof.
McRae, D. L., MD <i>W.Ont.</i>	†Assoc. Prof.
Siemewicz, D. J., BA <i>New Br.</i> , MD CM <i>Dal.</i>	†Assoc. Prof.
Crutchlow, E. F., OBE, BA MD CM	†Asst. Prof.
Dunbar, J. S., MD <i>Tor</i>	†Asst. Prof.
Fraser, R. G., MD <i>Manit.</i> , DipRad	†Asst. Prof.
Stephens-Newsham, L. G., BA <i>Sask.</i> , PhD (Phys)	†Asst. Prof.
Brown, N., BA MD CM	†Lectr.
Cunningham, R. M., MD <i>Tor</i>	†Lectr.
Grainger, F. A., BA <i>Mt All.</i> , MD CM	†Lectr.
Philips, T. F. B., BSc MD CM	†Lectr.
Hale, B. B., BSc MD CM	†Lectr.
Lougheed, M. N., MD CM	†Lectr.
2 Demrs.	

Surgery

Robertson, H. R., BSc MD CM	Prof.
Webster, D. R., OBE, BA MD CM <i>Dal.</i> , MSc PhD, FRCSCan (Exper. S.)	Prof.
Martin, S. J., MD CM, FRCSED, FRCSCan	†Assoc. Prof.
Murphy, D. R., MD CM, FRCS	Assoc. Prof.
Wilkie, A. L., BA <i>St F X</i> , MD CM	†Assoc. Prof.
Gurd, F. N., MSc <i>Penn.</i> , MD CM	†Assoc. Prof.
McCorriston, J. R., BA <i>Sask.</i> , MD CM	†Assoc. Prof.
MSc, FRCSCan	†Assoc. Prof.
MacKinnon, K. J., BSc <i>St F X</i> , MD CM <i>Dal.</i>	†Assoc. Prof.

Luke, J. C., MBE, BA MD CM, FRCSCan, FRCS	†Assoc. Prof.
Morton, H. S., OBE, BA MSc <i>Dal.</i> , MB <i>Lon.</i> , FRCS, FRCSCan, FACS	†Assoc. Prof.
Moseley, H. F., MA DM MCh <i>Oxon</i> , BA, FRCS, FRCSCan, FACS	†Assoc. Prof.
Petrie, J. G., MD CM	†Assoc. Prof.
Shannon, J. G., MD <i>Tor</i> , FACS	†Assoc. Prof.
Vineberg, A. M., MD CM MSc PhD, FACS	†Assoc. Prof.
Woolhouse, F. M., BSc <i>Sask.</i> , MD CM, FRCPCan	†Assoc. Prof.
Baxter, S. G., MD CM MSc PhD	†Asst. Prof.
Gerrie, J. W., BA DDS <i>Alta</i> , MD CM	†Asst. Prof.
Owen, H. F., BA MD CM	†Asst. Prof.
McIntosh, C. A., BA MD CM	†Asst. Prof.
McNaughton, E. A., MD CM, FRCSCan	†Asst. Prof.
Holland, G. A., BCom MD CM, FRCSCan	†Asst. Prof.
Palmer, J. D., BA <i>New Br.</i> , MD CM	†Asst. Prof.
Couper, W. M., BSc MD CM, FRCSED, FRCSCan	†Asst. Prof.
Baxter, H. A., DDS MD CM MSc	†Asst. Prof.
Trank, J. W., BEng MS <i>Minn</i>	Lectr.
Butler, A. A., MD CM	†Lectr.
Dickson, J. C., MD CM, FRCSCan	†Lectr.
Little, G. D., MD CM, FACS	†Lectr.
MacDonald, S. A., MB ChB <i>Edin.</i> , BA, FRCSCan	†Lectr.
Sutton, J. C., BA MD CM	†Lectr.
Walker, J. A. L., BA MD CM, FACS, FRCSCan	†Lectr.
21 Demrs., 1 Res. Assoc.	

Therapeutics, see Pharmacol and Therap.**Urology**

Reid, R. G., MD CM	†Assoc. Prof.
MacDonald, S. A., MB ChB <i>Edin.</i> , BA, FRCSCan	†Lectr.
McLean, J. T., MD <i>Manit</i>	†Lectr.

**PHYSICAL AND OCCUPATIONAL
THERAPY**

Fisk, G. H., BA MD CM	†Assoc. Prof., Dir of Sch.
Gault, Mrs. Helen M., BSc(P&OT)	Asst. Prof.
Gemero, Mrs. Helen M., BA <i>Str G Wms</i> , MA <i>Col.</i> , DipAdmin	Asst. Prof.
Aston, Edith P., DiplP&OT	Lectr.
Dunkin, Elizabeth	Lectr.
Pearce, Mrs. Irma P	Lectr.
Perodeau, Mrs. Sally	Lectr.
Ward, Joan	Lectr.
Lundell, F. W., BA <i>Br Col.</i> , MD CM	†Lectr.
(Instrucn. is given by members of the Fac. of Med., Sch. for Grad. Nurses and Sch. of Phys. Educn.)	
6 Demrs.	

PHYSICAL EDUCATION

Griffiths, H E, MA *Middlebury*, BCom
Assoc Prof., Dir of Athletics
Munroe, Iveagh, BSc MA Col.,
Dip *McG Sch. of Phys. Educn.*
Assoc Prof., Dir of Athletics for
Women
Wood, Winona, BEd *Sask.*, MA Col
Assoc Prof
Bean, Gladys, MA Col., Dip *McG. Sch. of*
Phys. Educn. Assoc Prof.
Ryan, H R., BA *Acad.*, BPE *Springfield*
Assoc Prof
Wagner, Thelma, BSc MA N Y
Assoc Prof
Wilkinson, R E, MA Col., BSc
Assoc Prof
7 Instrs

SCHOOL FOR GRADUATE NURSES

Chattuck, Miss Rae, BS Col., MA *Stan.*,
LLD *Alta.*, MPH *Harv.* Prof., Dir.
Allen, Moyra, MA *Chic.* Assoc Prof
Logan, Elizabeth, BSc *Acad.*, MN *Yale*
Assoc Prof
Gemeroy, Mrs Helen M., BA *SirG Wms.*,
MA Col. Asst Prof
Richmond, Mary, MA Col., BN Asst Prof
Shaw, Ethel C., BScN *Alta.*, MSc *Simmons*
Asst Prof
McDowell, Fay, BSc Col. Lectr

Palmer, Zella, BN Lectr
Rowles, Dorothy, BN Lectr.
McCallum, Helen, BA *W. Ont* Lectr
MacDonald, Joan, BN Lectr.

SOCIAL WORK

Moore, J J O., AB *Missouri*, MA *Denver*,
EdD Col. Prof., Dir.
Kirk, H D., BSc N.Y., MA PhD *Corn*
(on leave) Assoc. Prof.
Lightman, J. B., AB LLB *George Washington*,
MSS N Y Assoc Prof
Young, Eva R., BA *Alta.*, MA Assoc Prof
Freeman, Mrs Dorothy R., BA Dip SocWk
Assoc Prof
Gifford, C G., DFC, MSW *Pitt.*, BA
Assoc Prof.
Griffiths, Margaret, BA *W. Ont.*, MA (SSW)
Chic., Dip SocWk *Tor.* Assoc Prof.
Katz, M., BA *SirG. Wms.*, PhD Col.,
MSW Assoc Prof.
Ross, Verity M., BSc Col., MSc PhD
Assoc Prof
Tuck, Helen H., BA *Manit.*, MSW Assoc Prof
Stevenson, Mrs Mary, BA *Sask.*, MSW
Dip SocWk *Tor.* Asst Prof
Rotman, A., BA *SirG Wms.*,
MS *W. Reserve* Sp Lectr
Woodhouse, D F., BSc MSW Sp Lectr

ADMINISTRATIVE AND OTHER STAFF (Montreal)

Asst Registrar Virginia Cameron, BA Dir
of Univ Extension Assoc. Prof H R. C
Avison, MA Supt. of Bldgs and Grounds
P A Cunningham Sec., McGill Graduates'
Soc J T Laffleur, BA Chief Accountant
D C Bain, BA Purchasing Agent W A
Barclay, BSc(Agr) Univ. Chaplain and Student
Counsellor E C Knowles, BD *Tor.*, MA Hon
DD Development Officer D L Gales, BA
BCL Dir of Univ Placement Service, R C
Coleman, DSO, MC, LLB *Dal.*, BA. Dir of
Athletics, Phys. Educn and Recreation H. E

Griffiths, MA *Middlebury*, BCom Warden of
Royal Victoria Coll Muriel V Roscoe, AM
PhD *Radcliffe*, Hon DSc *Acad.*, Hon LLD
Qu. McGill Univ Representative in Gt. Britain
H E. C. Rubie, BSc *Oxon* Student Aid Officer
J. D Cleghorn, ED Sec.-Treasurer of McGill
Students' Soc W. T. Hastings, BA *Durh*
Asst Univ. Librarian Beatrice V Simon, MA
DipLS Dir of Student Health Service R P
Vivian, MD *Tor* Warden of Douglas Hall
W S. Reid, ThM *Westminster (Pa.)*, PhD *Penn.*,
MA

MACDONALD COLLEGE

Postal Address: Macdonald College, P.Q., Canada

Telephone: Glendale 3-5335

Vice-Principal, and Dean, Fac of Agric.—H G Dion, BSc *Sask.*, PhD *Wis.* Sec.—R L. Puxley
Registrar—

AGRICULTURE**Agricultural Bacteriology**

Blackwood, A C, MSc *Alta.*, PhD *Wis.* Prof.
MacLeod, R A., MA *Br Col.*, PhD *Wis.*
Assoc Prof
Knowles, R, BSc *Birm.*, PhD *Lond* Asst Prof

Agricultural Chemistry

Common, R H., BSc Magr *Belf.*, PhD
DSc *Lond.*, FRIC Prof.
Dion, H. G. BSc *Sask.*, PhD *Wis.* Prof
De Long, W A., BSA *Tor.*, PhD *Minn.*,
MSc Prof

Baker, B E, BSc <i>Bishop's</i> , PhD <i>Laval</i>	Assoc Prof	Pelletier, R L., PhD <i>Wis</i> , MSc	Assoc Prof
Henneberry, G O, BSc <i>Dal.</i> , MSc	Lectr	Callen, E O, BSc PhD <i>Edu</i> , FLS	Asst Prof
2 Demrs.		Estey, R H, BSc MS <i>Mane</i> , PhD	Asst Prof
		McFarlane, J. E, MA <i>Sask</i> , PhD <i>Ill</i>	Asst Prof
		1 Asst	

Agricultural Economics

MacFarlane, D L, BSA MSc <i>Sask.</i> , PhD <i>Minn.</i>	Prof
Haver, C E, BSc <i>Sask</i> , MSc <i>Calif.</i> , PhD <i>Iowa</i>	Assoc Prof

Agricultural Engineering

Banting, E A, BSA <i>Tor.</i>	Prof
Cooper, J H, BSc(Agr)	Assoc Prof
Malloch, A C., BSc <i>Qu.</i>	Asst Prof

Agricultural Physics

Rowles, W, BSc <i>Sask.</i> , MSc PhD	Prof
Warkentin, B P, BSA <i>Br Col</i> , MS <i>Wash</i> , PhD <i>Corn</i>	Asst Prof
Carter, A L, MSc <i>Dal</i> , PhD	Asst Prof

Agronomy

Steppler, H A., BSA <i>Manit</i> , MSc	Prof
Brawn, R I., BS <i>Penn State</i>	Assoc Prof
Klinck, H. R., BSA <i>Tor.</i> , MSc	Asst Prof
Bubar, J. S., MS <i>Penn</i> , BSc	Asst Prof

Animal Science

Crampton, E W, BS <i>Conn.</i> , MS <i>Iowa</i> , PhD <i>Corn</i> , Hon DSc <i>R'dg</i> , FCIC, FRSCan	Prof
Lloyd, L. E., BSc(Agr) MSc PhD	Prof
MacDonald, M A, MSA <i>Br Col</i> , PhD <i>Oregon State</i>	Assoc Prof
Nikolaiczuk, N, MSc <i>Alta</i> , PhD <i>Ohio State</i>	Assoc Prof
Poirier, R, BA BSA <i>Montr</i> , MS PhD <i>Iowa</i>	Assoc Prof
Anastasiadis, P A, BAg <i>Athens</i> , MED <i>Rutgers</i>	Asst Prof
Dale, D G, DVM <i>Tor</i>	Asst Prof
Moxley, J E, BSc(Agr)	Asst Prof
Donefer, E., MS <i>Corn</i>	Lectr

English

Avison, H. R C, MA	
Assoc Prof, Dir, Univ. Extension	
Cole, D W, MA <i>Br Col</i>	Asst Prof
Dubreuil, Mrs Margaret, MA <i>Aberd</i>	Lectr
Godfrey, A R, BA <i>Alta</i> , MA <i>Tor.</i>	Lectr

Entomology and Plant Pathology

DuPorte, E M, BSA MSc PhD	Prof
Kevan, D. K M., BSc <i>Edin.</i> , PhD <i>Nott.</i>	Prof
Sackston, W E, BSA <i>Manit</i> , MSc PhD <i>Minn</i>	Prof
Coulson, J G, MA <i>Qu</i> , DSc <i>Montr</i>	†Prof
Bigelow, R S, BSc(Agr)	Assoc Prof
Morrison, F O, BA MSc(Agr) <i>Alta</i> , PhD	Assoc Prof

Horticulture

Murray, H R, BSA <i>Tor</i> , MSc <i>Conn</i>	Assoc Prof
Taper, C D, MScAgr <i>Br Col</i> , PhD <i>Manit</i>	Assoc Prof
David, J, LSA <i>Montr</i> , PhD <i>Calif</i>	Asst Prof
Harney, Patricia M, BSc(Agr)	Lectr

Woodlot Management and Morgan Arboretum

Jones, A. R C, BSc <i>Tor</i>	Asst Prof.
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HOUSEHOLD SCIENCE

Neilson, Helen R., MBE, BHS MSc	Prof, Dir of Sch
Honey, F Isabel, MA <i>Tor</i> (Home Econ)	Assoc Prof.
Deveaux, Helen L, MA <i>Tor</i>	Asst Prof
Jenkins, Marjorie M, BSc(HEC) MSc <i>Alta</i>	Asst Prof.
Zarkadas, Marion, BSc <i>Alta</i>	Lectr.
Stewart, Margaret R, BHS	†Lectr.
Tucker, Frances A., BSc(HEC)	Lectr
Young, Mrs Helen G, BSc(HEC)	Lectr
Martin, Mrs Katherine, BHS	Sessal. Lectr

INSTITUTE OF EDUCATION

Munroe, D. C, MA	
Macdonald Prof of Educn, Dir of Inst	
Edwards, R, BSc <i>Lond</i> , MED <i>Mane</i> .	Prof.
Hall, C W, MA <i>Bishop's</i>	Prof.
Hanson, F K., MusD	(Music) Prof.
Henry, A. M., BA <i>Lond</i> , MA (Educn)	Prof
Hawkins, S. C McL., <i>DUParis</i> , MA	
Assoc Prof.	
Young, J E M, BA <i>McM.</i> , MED <i>Sask.</i> , PhD <i>Tor</i>	Assoc Prof.
Bowers, Phyllis, BA <i>Qu.</i>	Asst Prof.
Crook, Frances E, BA <i>Bishop's</i> , MSc <i>Bryn Mawr</i>	Asst Prof
Duncan, Ruth, BA <i>Manit</i> , BSc(Ped)	Asst Prof
Wisenthal, M, BA <i>Su G.Wms</i>	
Asst Prof., Asst. to Dir	
Horton, Marguerite F. L., BA <i>Qu.</i> , MA <i>Col.</i>	Asst Prof.
Jakes, A Elizabeth	Asst Prof.
Morrison, H, BA <i>Bishop's</i>	Asst Prof
Tomkins, Muriel, BA <i>SirG Wms</i> , MA <i>Wis</i>	Asst Prof
McElroy, G E. W, BA <i>Qu</i>	Lectr.
Nichol, Dorothy A., BSc(Ped)	Lectr.
Overing, R, BA <i>SirG Wms.</i> , MA	Lectr
Pedersen, E, BA <i>SirG Wms</i>	Lectr.
Pugh, R. W	Lectr.
Walker, Margaret C., BPhysEd <i>Tor.</i>	Lectr

CANADA

Horowitz, M., BA *SirG.Wms.*, MEd *Alta.* Lectr
 Inglis, F. G., MD CM *Dal.*, MSc †Lectr.
 MacNeill, Daisy, BA *Br.Col.*, MA *Col* Lectr
 McNicol, Shirley, BA Lectr.
 Stinson, Mrs. Franga, BA *SirG Wms* Lectr
 Widdop, J. H., BSc(Econ) *Lond.* Lectr.
 Doxsee, Rev. F. A. C., BA *Tor. & Oxon.*
 (Relig. Instrucn.) Hon. Lectr.
 Kerr, J., BA (Relig. Instrucn.) Lectr.
 5 Demrs.

INSTITUTE OF PARASITOLOGY

Cameron, T. W. M., TD, MA DSc *Edin.*,
 BSc(VetSci) PhD *Lond.*, Hon. DSc *Br.*
 Col., FRSCan Prof. Dir
 Laird, M., PhD DSc *N.Z.* Assoc. Prof.
 Fairbairn, D., BA *Qu.*, PhD *Roeh.* Assoc. Prof.
 Harpur, R. F., BSc *N.Z.*, MSc PhD Asst. Prof.
 Schad, G. A., BSc *Corn.*, MSc PhD Asst. Prof.
 Tanner, C. E., BSc *Purdue* Asst. Prof.
 1 Asst.

ADMINISTRATIVE AND OTHER STAFF

(Macdonald College)

Physician in the Macdonald Health Service:
 G. L. Fortier, BSc MD CM Librarian:
 Mrs. Muriel Wells, BA BEd *Sask.*, BLS. Asst
 Supt of Bldgs and Grounds: G. T. F. Wright

Warden, Brittain Hall: R. Knowles, BSc *Birm.*,
 PhD *Lond.* Warden, Stewart Hall: Frances E.
 Crook, BA *Bishop's*, MSc *Bryn Mawr.* Warden,
 Laird Hall: Helen Neilson, MBE, BHS MSc

AFFILIATED THEOLOGICAL COLLEGES

DIOCESAN COLLEGE OF MONTREAL, 3473 Univer-
 sity St., Montreal, P.Q. (tel. Victor 9-3004)
 Founded 1873. Principal—Rev. E. G. Jay, MA
Leeds, PhD *Lond.*

UNIFIED THEOLOGICAL COLLEGE, 3508 Univer-
 sity St., Montreal, P.Q. (tel. Victor 9-2042)
 Founded 1926. Principal—G. Johnston, MA
BD Glas., PhD *Camb.*

The above two colls. train students for the
 ministry and grant certs for ordination, but in
 1948 they remitted their degree-granting powers
 to the univ., which now confers degrees in div
 upon properly qualified students.

PRINCE ALBRIAN COLLEGE, 3485 McTavish St.,
 Montreal, P.Q. (tel. Victor 2-4754) Founded
 1865. Principal—Rev. R. Lennox, MA ThB DD.
 Awards own degree of BD.

GENERAL INFORMATION

The Hon. James McGill, a leading merchant
 and prominent citizen of Montreal, who died in
 1813 bequeathed 46 acres of land and £10,000 to
 the already existing 'Royal Institution for the
 Advancement of Learning' to found a univ. or
 coll. As a result, in 1821 a royal charter was
 granted and in 1829 teaching began in the Univ.
 of McGill College in the facs. of med. and arts.
 The charter was amended in 1852. In 1899 the
 Royal Victoria Coll., a gift of Baron Strathcona,
 was opened to provide separate teaching and
 residential facilities for women students. In 1907
 Macdonald Coll., named after Sir Wm Macdonald
 whose gift it was, was established as a resi-
 dential coll. for agric., household sci., and sch.
 for teachers. Since then the univ. has grown
 vigorously, dividing itself into further facs., and
 many new bldgs. have been erected, especially
 since 1945, the latest addition being the McConnell
 engin. bldg. opened in 1959.

The univ. is undenominational and has for
 many yrs. been co-educational in all its facs. and
 most of its schs.

CONSTITUTION. McGill Univ. is a corporation
 created by a royal charter granted by the Crown
 of the United Kingdom, general supervisory
 power being retained by the Crown and exercised
 through the governor-general as 'visitor'. The

governors of the univ. constitute the Royal Insti-
 tution for the Advancement of Learning, a cor-
 poration existing under the laws of the province
 of Quebec, pt. of the official organization of the
 province, but completely self-governing. In them
 is vested the management of finances, appt. of
 profs. and other important duties, 3 of the
 governors are elected by the members of grade,
 soc. and other appts. are made by nomination of
 remaining members with the approval of the
 visitor. The pres. of the bd. of governors is, *ex*
officio, chancellor of the univ. The principal is
 the academic hd. and chief admin. officer. He is
 appointed by the bd. of governors (of which body
 he is a member). He also holds the office of
 vice-chancellor of the univ. Senate consists of
 the chancellor, principal, deans of facs., warden
 of Royal Victoria Coll., dir. of inst. of educn., dir.
 of univ. extension and 4 group chairmen of fac.
 of arts & sci., all *ex officio*; 5 governors elected
 by the bd.; and 8 profs. elected by the various
 facs. The principal is chairman of senate, which
 is the highest academic authority of the univ.
 and has control over admission, courses of study,
 discipline and degrees. The carrying out of the
 regns. of senate along with primary responsibility
 for the conduct of the educn. work of the univ. is
 entrusted to the several facs. and schs.

INCOME (1959-60) Total income, \$12,875,039 (excl ancillary enterprises) Student fees, 31.5 per cent, gifts for operating purposes (other than res), 5.2 per cent; endowments, 15.8 per cent, provincial grants, 14.2 per cent, gifts, grants & endowments for res, 29.1 per cent (incl federal & provincial grants), other sources, 4.2 per cent

FACULTIES AND DEANS, see p. 205.

SCHOOLS AND DIRECTORS *Archit.*—J. Bland; *comm*—D. E. Armstrong, *household sci*—Helen Neilson; *library sci*—Miss Vernon Ross, *nursing*—Miss Rae Chittick; *physiotherapy*—G. H. Fisk, *soc. work*—J. J. O. Mooie, *inst. of educn.* (incl. the former sch. of phys educn.)—D. C. Munroe.

UNIVERSITY CAMPUS. The main bldgs are grouped on the land originally bequeathed by James McGill and cover about 10 city blocks in the centre of the city of Montreal. Over a number of yrs the univ has acquired land and bldgs to the N and E of the original campus, and residences for students and sports facilities have been provided in those districts. More recently bldgs to the W have been added and several depts. as well as the schs under the fac of med have been placed in them. A new centre housing the med scis will be opened in 1962 N-W of the campus midway between the 2 main teaching hospes, the Montreal Gen and the Royal Victoria, and nr the Neurological Inst. and Allan Memorial Inst. for Psychiatry.

LIBRARIES General, 780,000 vols. (incl Macdonald Agric Coll library), med, 92,000 vols. Sp collections: Blackader libr of archit; Blacker libr of zool, Lyman collection of entomol.; Osler libr of the hist of med and sci (13,000 vols.), Redpath pamphlet collection; and Wood libr of ornithol.

LABORATORIES. Agric res, anat, bacteriol, biochem, biophys, bot, chem, electronics, engin, genetics, geol, health and soc med., med res, neurol., pharmacol., phys, physiol., psychol and psychiatric res, pulp and paper res, radiation (with cyclotron), zool. Morgan arboretum.

RESEARCH INSTITUTES Arctic, biophys., indust relns, internat air & space law, Islamic studies, neurological, parasitol, pathological, personnel appraisal, psychiatry.

Bellairs inst, Barbados. marine biol. and trop climatol. Associated with this inst is Bruce exper stn of fac of engin solar energy, wind power and desalinification of sea water.

McGill sub-arctic res lab, Schefferville, P.Q (open throughout yr) geophys and geog. res

FARM. Livestock and grain, 876 acres

MUSEUMS Redpath (bot, geol, zool, entomol.), med library, McCord (Canadiana).

HOSPITALS Available for clinics 3000 beds in affiliated hospes. Royal Victoria H, Montreal Gen H, Montreal Children's H, Alexandra H. for

Infectious Dis., Verdun Protestant H, Royal Edward Laurentian H, Royal Victoria Montreal Maternity H

ADMISSION See Appendix III.

FIRST DEGREES 4 yrs from jr matric—MusB, BA gen, BA hons., BCom, BSc gen, BSc hons., BSc(Agr), BSc(HEC), BEd, 3 yrs from jr matric—BN (nursing); 5 yrs. from jr matric—BEng (chem, civil, electr, engin phys, mech, metall., mining), BSc(P&OT) (phys & occupnl. therapy), BSc(Nursing), 6 yrs from jr matric—BArch, DDS

Hons. BA may be taken in classics, Engl., French, geog, German, Greek, hist, Latin, maths., philos., psychol., sociol., in certain combinations of these subjs; or in anthropol. & sociol., econ. & pol. sci., maths & phys. Hons BSc may be taken in bacteriol. & immunol., biochem., bot., chem, genetics, geog., geol. scis., geol & phys. (geophys.), maths., maths. & phys., phys. & physiol., physiol., psychol., zool, there is also a general hons. degree in biol. scis.

The univ does not offer any evg courses for univ credit

HIGHER DEGREES BLS (library sci)—1 yr. postgrad, BD—3 yrs postgrad., MD CM—4 yrs postgrad, BCL—4 yrs after BA; MSW—2 yrs postgrad; MA, MCom, MCL, MSc, MEng, LLM, MArch, MSc(Appl), STM (theol) —1 yr's resident grad study, thesis and exam; MLS—at least 1 yr after BLS; PhD—3 yrs' grad. study

MA may be taken in classics, compar. religion, econ & pol. sci., educn., Engl lang & lit., French lang. & lit., geog., German, hist., Islamic studies, maths., philos., phys., psychol, sociol. & anthropol. MSc may be taken in agric. bacteriol., agric. chem *, agron., anat., bacteriol. & immunol., biochem *, bot., chem *, electr communications, entomol *, exper. med *, exper surg, genetics*, geog *, geol. scis *, hortecol., investigative med *, maths., metall., meteorol., neurol. & neurosurg *, nutrition*, parasitol., pathol., pharmacol *, phys *, physiol *, plant pathol., poultry husbandry, psychiatry, psychol., zool.*

PhD may be taken in electr. and mech. engin, div, and in subjs marked with * above.

HONORARY DEGREES. DCL, DSc, DLit, LLD.

The univ does not award EXTERNAL DEGREES Attendance at lectures at the univ is indispensable for a degree or dipl, except in music.

DIPLOMAS. Grad. nurse's, 1 yr; LMus, 3 yrs, phys and occupnl. therapy, 3 yrs. from jr matric Postgrad.—trop med, 1 yr, and teacher's (awarded by province of Quebec), 1 yr after BA or BSc. Phys. educn., 2 yrs from jr matric Postgrad. dipls are also awarded in the fac. of med. in the following clin. specialties: anesthesias, dermatol. and syphilol, internal med, neurol. & neurosurg, obstet. & gynecol., ophthalmol., otolaryngol, paediatrics, psychiatry, radiol., surg. and urol. These courses are open to approved med. grads. and cover from 3 to 5 yrs. of study.

Diploma course in agriculture The dipl course in the fac. of agric consists of 2 sessions of 5 mos each (Nov. to March inclusive). Closely connected with this course is the 'Old Country boy' project, under which boys from the British Isles are encouraged to take up the dipl course at Macdonald Coll. so as to fit them for the work of farming, and every effort is made to give them both the theoretical and the practical educn that is needed

SUMMER SCHOOLS French (6 wks) and geog (worn time to time); Engl lang. (1 month), for students whose native tongue is not Engl

FEES Yearly tuition: arts, \$425, sci, \$475, engin., \$525; archit, \$525, med., \$600, dent., \$500, law (1st 3 yrs) \$425, (4th yr) \$350; div, \$400, music, \$400 to \$550, library sci, \$425, comm., \$425, soc. work, \$425, nursing (degree & dipl. courses), \$400; phys and occupnl therapy, \$400, grad studies, \$425; agric (degree course), \$275, household sci, \$275, educn (1st 2 yrs) \$225, (last 2 yrs) \$425

ACADEMIC YEAR Sept-May* 2 or 3 terms.

FELLOWSHIPS, SCHOLARSHIPS AND BURSARIES There are a number of schols. and bursaries tenable in the undergrad facs and a number of fellowships and assistantships in the grad. fac. There are also loan funds available to students in upper yrs. Details of all these are given in the schols announcement which the registrar's office will be glad to send to enquirers

STUDENT RESIDENCES I In Montreál. Women Royal Vic Coll., 555 Sherbrooke St. West, Montreál, P.Q. (tel. Vi 4-6311) (301 students)—warden: Dr. Muriel V Roscoe, \$730-\$800 p a, McLennan Hall, 3480 Ontario Ave., Montreál, P.Q. (tel. Vi 2-0044) (28 students)—warden: Dr. Muriel V Roscoe, \$415 p a Men Douglas Hall, 3851 University St., Montreál, P.Q. (tel. Vi 4-6311) (147 students)—warden: Dr. W Stanford Reid, \$685-\$750 p a, depending on course; Wilson Hall, 3506 University St., Montreál, P.Q. (tel. Vi 4-6311) (71 students), \$620-\$650 p a, depending on course II. In Ste Anne de Bellevue, Macdonald Coll, almost completely residential, with special quarters for married students

STUDENT HEALTH. An annual med exam. is required of every student. The univ provides regular consulting service for all students and full

med and nursing services for men and women in residences. It also makes some contribution towards necessary hosp expenses

ATHLETICS. Opportunities are provided for taking part in the following sports. *For men* Canadian football and English rugby football, association football, hockey, basket-ball, track, swimming, gymnastics, boxing, wrestling, fencing, sking, tennis, badminton, squash, racquets. *For women* gymnastics, dancing, badminton, swimming, volley-ball, basket-ball, tennis, archery, golf, skiing, skating

MILITARY TRAINING. Univ contingents prepare students for commissions in Canadian army (reserve), Canadian navy (reserve) and Canadian air force (reserve)

EXTENSION WORK. Extension courses in approx. 75 subjects are given in the afternoon and evgs for residents of Montreál and vicinity. Some prepare students for speciality exams., such as are required by the various accountancy assocns (leading to dipls of CA, CPA, etc.), and the inter. and final exams of the Chartered Inst of Secretaries. A few may be counted for the degree of MEng or the dipl in management and bus admin. Rural extension work is carried on through Macdonald Coll

GRADUATES' SOCIETY, 3618 University St., Montreál

REPRESENTATIVE IN GREAT BRITAIN. H E C Rubie, BSc Oxon, c/o Canadian British Education Committee, 62 Trafalgar Square, London, W.C.2, England (tel. Whitehall 5100)

PUBLICATIONS (Free) *Calendar* (Oct); *General Announcement* (for intending students) (May); *Faculty and School Announcements* (May to Aug); *Directory of Staff* (Feb); *Annual Report* (Dec); *McGill News*, quarterly, by graduates' soc; *McGill Daily*, by students *McGill and its Story, 1827-1927*, by Cyrus Macmillan (London, John Lane, 1921; Toronto, Oxford Univ Press, 1921, \$3); *A Historical Sketch of the Medical Faculty and of the Origin of McGill Univ*, by Dr Maude Abbott, reprinted from *Montreal Medical Journal*, 1902, *Oldest McGill*, by E A. Collard (Macmillan, 1946, \$2), *McGill Univ at War, 1914-18, 1939-45*, by R C. Featherstonhaugh (McGill Univ, 1947, \$3), *McGill: The Story of a University*, ed. by Assoc Prof H MacLennan (Allen & Unwin, 1960)

THE YEAR 1960

PRINCIPAL BENEFACTIONS Estate of Agnes Stewart, \$152,473 for endowment of schols., and \$152,473 for res. at Montreál Neurol Inst, anon donor, \$370,000 for bldgs and equipment at Macdonald Coll, T H. P & H. de M Molson, \$150,000 for male students' residence, estate of Isabella McLennan, \$100,000 for travelling library, and \$30,000 for Royal Victoria Coll.

MAJOR BUILDING DEVELOPMENTS *Bldgs completed:* kitchen and dining-room, Macdonald Coll

RETIREMENTS. Prof L H Hamilton (animal husbandry), M. de Angelis (phys), R Patterson (maths.)

RESIGNATIONS. Prof E W Kicrans (comm),

apptd pres, Montreal Stock Exchange, Prof Grace T Robertson (bacteriol), Prof D R Wood (pharm), to Leeds, Prof J. D Ives (geog), to dept. of mines & technical surveys, H M Ritchie (Engl), apptd asst prof of drama, Calif, K Brown (Engl), J Stonehewer (civil engin), Prof N* Oler (maths), Prof M D Burrow (maths), Prof G E G Catlin (econ & pol sci), Prof W Penfield (Montreal Neurol Inst), Prof W Heron (psychol), to McM, B E Maxwell (zool.)

DEATHS. W C J Meredith (dean of law), Dr J. R Fraser; Dr. J C Meakins, & J Malloy (lectr in med)

HONORARY DEGREES LL.D.—Hon O Gagnon, lt-gov., P.Q., H E G. P. Vanier, gov.-gen of Canada, A G Murphy, chief engineer, St Lawrence Seaway; W P Thompson, former pres, Sask, J Leger, permanent representative of Canada to North Atlantic Council and to O.E.E.C., Hon A Barrette, prime minister, P.Q., F C Morgan, hon pres., Montreal Museum of Fine Arts, H.E. Paul Emile Cardinal Leger, archbishop of Montreal, Hon Senator A K. Hugessen, batonnier, P.Q., Allie V. Douglas, former dean of women, Qu. DSc—J S Foster, Rutherford prof of phys, W Penfield, former Dir, Montreal Neurol. Inst

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Partial	Extension & Summer
Men	5560	257	5752
Women	2476	420	2121
Total	8036	677	7873

Distribution by Faculties, etc *Agric*, 249, *arts & sci*, 3088, *dent*, 143, *div*, 36, *engin*, 1486, *grad studies*, 992, *home econ*, 95, *law*, 199, *library sch*, 50, *med*, 412, *music*, 27, *nursing*, 154, *phys & occupnl. therapy*, 139, *soc work*, 89, *teaching*, 707, *other courses*, 170
Total. 8036

Included in the figures above are —

Postgraduate students, 992

New admissions, 1843

Students from other countries, 1324 (Countries from which largest numbers came U S A, 433, W Indies Fed, 197, Hong Kong, 151, U K, 137)

DEGREES AWARDED (1959-60) BSc(P&OT), 1, BEd, 15, BLS, 31; BScHEc, 13, BScAgr, 53, BScPEd, 6, BCom, 76, BArch, 15, BSc, 178; BN, 18, BMus, 6, BEng, 237 (chem, 29, civil, 75, electr, 55, engin phys, 13, mech, 52, metall, 9, mining, 4), BD, 11; BA, 182, BCL, 57, DDS, 37, MD CM, 101, MLS, 2, MSc, 72; MEng, 9, STM, 4, MSW, 24; MA, 39; MCL, 4, LLM, 4; PhD, 72, MSc(Appl), 11.

DIPLOMAS AWARDED (1959-60) Management & bus admin, 33, electr communications, 3, in sch for grad nurses, 59, in conservatorium of music (licentiate in music), 3, grad dipl. in med, 36, in sch of phys & occupnl therapy, 34
Macdonald Coll dipls. agric, 18, handicrafts, 6

McMASTER UNIVERSITY

Founded 1887

Postal Address · Hamilton, Ontario, Canada
Cables and Telegrams : McMaster University, Hamilton
Telephone : Ja. 9-7101

CHANCELLOR—C. P. FELL, Hon. LLD

PRESIDENT AND VICE-CHANCELLOR, PRINCIPAL, HAMILTON COLLEGE—H. G. THODE, MBE, MSc PhD Chic., Hon LLD Sask., Hon. DSc Tor, Br Col & Acad., FRs, FRSCan, FCIC

VICE-PRESIDENT— . . .

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ENGINEERING—Professor J. W. HODGINS, BASc PhD Tor, FCIC, GRADUATE STUDIES—Professor
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Mississippi, ThD S Baptist Theol. Sem, Hon DD Acad.

DIRECTOR OF EXTENSION AND SUMMER SESSION—W. J. McCALLION, MA

REGISTRAR AND SECRETARY TO THE SENATE—C. W. H. LINTON, BA

BURSAR AND SECRETARY TO THE BOARD OF GOVERNORS—W. N. PATERSON, BA

LIBRARIAN—MARGET H. C. MEIKLEHAM, MALS Mich., BA

TEACHING STAFF

[* = also member of Fac. of Grad. Studies, † = Part-Time; § = also member of Fac. of Engin.]

· Anthropology, see Geog.

Biology

*Kleesckoper, H., MA PhD Mich, (Zool.) Prof.
DSc Paris
Radforth, N. W., MA Tor, PhD Glas, (Bot.) Prof., Chairman of Dept.
FRSCan
*Miller, J. J., BA PhD Tor, (Bot.) Prof.
Nace, F. F., MA Col., PhD N.Y. (Zool.) Prof.
MacClement, W. D., CD, BA Qu, (Bot.) Assoc Prof
PhD Camb.

*Davies, D. M., BA PhD Tor, (Zool.) Assoc. Prof.
Threlkeld, S. F. H., MSc Alta., PhD Camb
Sessl Asst Prof
Laking, L., BSA Tor, (Bot.) Sp Lectr
1 Postdoctorate Fellow

Chemistry

*Thode, H. G., MBE, MSc Hon. LLD Sask, PhD Chic., Hon DSc Tor, Br Col. & Acad., FRs, FRSCan, FCIC
Vice-Chancellor, Principal of Hamilton College, Dir of Res, Prof
Graham, R. P., MA Qu., AM PhD Col, FCIC Prof.
*Bourns, A. N., BSc Acad., PhD McG., FCIC Prof.
*Tomlinson, R. H., BSc Bishop's, PhD McG Prof

*MacLean, D. B., BSc Acad., PhD McG Prof, Chairman of Dept
*Gillespie, R. J., PhD DSc Lond Prof
Spenser, I. D., BSc Birm, PhD Lond, FRIC, FCIC Assoc. Prof.
*King, G. W., BSc PhD Lond Assoc. Prof.
Calvo, C., BS PhD Rutgers Asst. Prof.
Warkentin, J., MSc Manit, PhD Iowa Asst Prof
McCalla, D. R., BSc Alta, MSc Sask, PhD Cal Tech Sessl Asst. Prof.
6 Postdoctorate Fellows

Classics

Shepherd, D. M., MA Qu., PhD Chic. Assoc. Prof., Hd. of Dept.
*McKay, A. G., BA Tor., MA Yale, AM PhD Prin, Assoc. Prof.
White, R. E., AB Tufts, PhD N.Carolina Asst Prof

Engineering

*Hodgins, J. W., BASc PhD Tor., FCIC (Chem. E.) Prof., Chairman of Dept.
Gladwin, A. S., DSc Glas, PhD Lond. (Electr. E.) Prof, Chairman of Dept.
*Huber, D. G., MASc Tor, PhD Iowa (Mech. E.) Prof, Chairman of Dept.
*Petch, H. E., PhD Br.Col., MSc (Metall. E.) Prof., Chairman of Dept.
Kirkaldy, J. S., MASc Br.Col., PhD McG. (Metall. E.) Assoc. Prof.

|| Member of the Association of Universities of the British Commonwealth

Oravas, G., MScCivEng MScEngMech

PhD *Mech*

(Civil E.) Assoc Prof, Chairman of Dept

*Wade, J H T, MAsE PhD *Tor*

(Mech. E.) Assoc. Prof.

Johnson, A I, BASc PhD *Tor*, MChE

Brooklyn Polytech (Chem. E.) Assoc Prof

Ward, R G, MA PhD *Camb*

(Metall E) Steel Co of Canada Assoc. Prof

Smeltzer, W W, BSsC *Qu*, PhD *Tor*.

(Metall E.) Assoc. Prof.

Uhlig, C. A. E, DiplElling DrScTech

E.T.H. Zurich (Electr. E) Sessl. Assoc. Prof.

Newcombe, W R, BSc *Mt. All.*

ME *N.S.T.C.*

Crowe, C. M., BEng *McG.*, PhD *Camb*

(Chem. E.) Asst Prof

*Hoffman, T. W., MSc *Qu*, PhD *McG.*

(Chem. E.) Asst. Prof.

Siddall, J. N., BSc *Sask.*, SM *M.I.T.*

(Mech. E.) Asst Prof

Wilson, N. E., MA MAI *Dub.*, SM *Harv*

(Civil E.) Asst. Prof.

Campbell, C. K., BSc PhD *St And.*

SM *M.I.T.* (Electr. E.) Asst Prof

Keech, G. L., MSc PhD

(Mech. E.) Asst Prof of Nuclear Engin.

Robinson, H., BSc PhD *Durh*

(Civil E) Asst Prof

Hoolboom, G J, MA *T.H. Delft*

(Electr. E) Sessl Asst Prof

Tory, E M, BSc *Alta*

(Chem. E.) Sessl Asst. Prof

Ives, M B, BSc PhD *Brust.*

(Metall E) Sessl. Asst Prof.

Murphy, K L, BASc *Tor*, BSc PhD *Wis*

(Civil E.) Sessl. Asst. Prof

Rieger, N F, MEngSc *Melb*, PhD *Nott*

Sessl. Asst Prof

Lavigne, M J., BA BScApp DSc *Laval*

(Metall E.) †Sp Lectr.

English

*Wiles, R. M., BA *Dal*, MA PhD *Harv.*

Prof., Hd. of Dept

Murphy, Mrs Dorothy S., MBE,

MA *Oxon* & *Tor* Assoc Prof

*Jackson, B A. W., DPhil *Oxon*, BA

Assoc. Prof.

Martin, E. Mary F., BA *Alta.*, MA *Lond.*

Asst. Prof

§Shrive, F N, CD, MA *Tor*, PhD *Qu*,

BA Asst Prof.

Lee, A. A., MA BD *Tor*

Asst Prof

Vichert, G. S., MA *Tor*, BA

Sessl. Lectr

Brink, A. W., MA *Tor*

Sessl Lectr

Keith, W. J., BA *Camb*, MA *Tor*

Sessl Lectr

Fine Arts

Wallace, G B., HDipEd MA *Dub.* Asst Prof

French, see Romance Langs

Geography and Anthropology

Reeds, L. G., MA PhD *Tor*

Assoc Prof

*Wood, H. A., PhD *Tor*, MA

Assoc Prof, Chairman of Dept

*Gentilcore, R L., BA *Tor*, PhD *Maryland*

Assoc Prof

Burghardt, A. F., BA *Harv*, MS

PhD *Wis*

Sessl. Asst. Prof.

Ford, D. C., BA *Oxon*

Sessl Lectr.

Geology

*Armstrong, H. S., MA *Tor*, PhD *Chic.*

FRSCan

Prof.

Shaw, D. M., MA *Camb*, PhD *Chic.*

FGS, FRSCan

Prof

*Middleton, G. V., DIC, ARCS, BSc

PhD *Lond*

Assoc Prof., Chairman of Dept.

*Burley, B. J., BSc *Lond.*, MSc *Br Col*,

PhD *McG.*

Asst. Prof

*Jones, R. E., MA *Qu*, PhD *Tor*

Asst Prof

Westermann, G. E. G., BSc *T.H. Braunschweig*,

DiplGeol DSc *Tubingen*

Asst. Prof.

Irvine, T. N., MSc *Manut.*, PhD *Cal Tech*.

Asst. Prof.

Crockett, J. H., BSc *New Br.* & *Oxon*,

PhD *M.I.T.*

Sessl Asst. Prof

German

*Denner, K., MA *Kentucky*, PhD *Johns H.*

Assoc Prof, Chairman of Dept

Stewart, D. D., MA *Tor*

Asst. Prof

Lawson, J. B., BA *N.Y. State Teachers*,

MA *Johns H.*, PhD

Lectr

Messner, J., DiplDolmetscher *Innsbruck*

†Sessl Lectr

Van Dusen, R. L., BA *Harv.*, MA *Texas* Lectr

History

*Salmon, E. T., BA *Syd.*, MA PhD *Camb.*

FRSCan, FRHistS

†Sessl Lectr

McCready, H. W., MA *Tor*, PhD *Harv*

Asst. Prof.

*French, G. S., MA PhD *Tor*.

Asst. Prof.

Kilbourn, W. M., BA *Tor*, MA *Ow.* Whiteford

AM PhD *Harv.*

4, R C A F

Johnston, C. M., MA PhD *Penn.*, Trg Officer,

*Trueman, J. H., MA *Tor*, PhD *Tor*, Fl/Lt C P.

Campbell, J. F., MA *Glas*, PhD *Yale*

Asst. Prof.

Mathematics

Banker, J. D., MA *Queen's* and honorary degrees

Sumner, D. B., MA *Harv.*, but it grants certs and

MSc *Camb.*

Authority At present the staff

*Banaschewski, Bd the staff of the univ.'s fac. of

Hamburg

are almost the same, and the

§Britton, F R, div coll is also the dean of theol.

MA

Leadership Training Sch., spon-

Lane, N D Baptist Women's Missionary Soc,

†Sessl Lectr

†Sessl Lectr

McCall, ed with the div. coll and is under the

Supervision of Lois A. Tupper.

Kenning Staff of Divinity College [† = Part

Biens, G. W. A., DrRerNat *Freib.*

Sessal Asst Prof

Chorneyko, I. Z., MA *Sask* Sessal Lectr.

Jackson, H. L., BA *W Ont*, MA *Qu* Sessal Lectr

Metallurgy

*Petch, H. E., PhD *Br Col*, MSc

Prof., Chairman of Dept

Kirkaldy, J. S., MASC *Br.Col.*, PhD *McG* Assoc Prof.

Ward, R. G., MA PhD *Camb*

(Metall. & Metall. Engin.) Steel Co. of

Canada Assoc Prof

Ives, M. B., BSc PhD *Brist* Sessal Asst Prof

Lavigne, M. J., BA BScApp DSc *Laval* Sp. Lectr.

2 Postdoctorate Fellows

Music

Thorlson, F., ATCM *Tor.*, MusM *Chc.*

Mus Coll Asst. Prof., Dir.

Nuclear Medicine

Jamiet, C. H., MD *Tor*, FRCPCan,

FACP

†Prof.

Nursing Education

Reid, Alma E., BA *Tor* Assoc Prof., Dir

Alderson, Henrietta J., MSc *Col* Asst Prof

Greenaway, Florence I., BN *McG.*, MS *Wayne* Asst. Prof

Ward, Hazel A., BSc MA *Col* Sessal Lectr.

Eagle, D. Joan, BScN Sessal Lectr

Kutschke, Myrtle A., BScN *W Ont* Sessal Lectr.

Mason, Marilyn Sessal Lectr

Sibakin, Mrs. Kira, BSc *Dneprop*, MSc

†Sp. Lectr.

Philosophy

*Almage, H. A., PhD *Chc.*, BA BD

Nac Assoc. Prof., Chairman of Dept

MacCann, J. H., MA *Qu*, PhD *Edm* Asst Prof

PhD *R. A.*, MA *Roch*, BA Lectr

*Davies, M. E., MA *Duke*, BA BD Lectr

Threlkeld, S., Education

Laking, L., BSA (d) *Syr.*, BA Prof., Hd. of Dept

1 Postdoctorate Fellow Assoc Prof

S., BSc(PhysEd) Asst. Prof.

Chemistry

*Thode, H. G., MBE, MSc *Chc.*, BPE Sessal Lectr

PhD *Chc.*, Hon DSc *FRSCan* Sp. Lectr

Acad., FRS, FRSCan, Vice-Chancellor, Prin

College, Dir of *R.Tor.*, BA, Prof.

Graham, R. P., MA *Qu.*, AM *Phi* Prof.

FCIC

*Bouras, A. N., BSc *Acad.*, PhD *McG* of Dept

FCIC Prof

*Tomlinson, R. H., BSc *Bishop's*, PhD *McG* Prof

|| Member of the Association of

*§Summers-Gill, R. G., MA *Sask.*, PhD *Calif*

Asst. Prof

Kennett, T. J., MSc PhD Asst. Prof

Mate, C. F., BA DPhil *Oxon* Asst. Prof.

McMullen, C. C., MSc PhD Asst. Prof.

Vosko, S. H., BEng(Phys) MSc *Carnegie*

Tech. Sessal Asst. Prof

3 Postdoctorate Fellows

Political Economy

Graham, J. E. L., MA BLitt *Oxon*, BA *Tor.*

Prof., Hd. of Dept

*McIvor, R. C., BA *W Ont*, MA Prof.

PhD *Chc.*

*Potter, C. C., BSc(Com) *StrG Wms*, Assoc Prof

McCom PhD *McG.* Thompson, R. W., BA *Tor*, MA *Qu.*

Asst Prof

Hunter, W. D. G., BA *Oxon*, MA *Edin* Asst Prof

Novak, D., BA *Tor* Asst Prof

Kersell, J. E., MA *Qu*, PhD *Lond* Asst. Prof.

Litvak, I., BCom *McG*, MS *Col* Sessal Lectr

Soulc, H., BA |Sp. Lectr.

Dixon, H. C., BCom *Tor.*, FCA |Sp. Lectr

Psychology

*Newbagg, P. L., BA *Sask*, MA *Tor.*

PhD *Lond*, Assoc Prof., Chairman of Dept

Kamin, L. J., MA PhD *Harv* Assoc Prof.

Heron, B. R. W., MA PhD *McG* Assoc Prof

Black, A. H., BA *Tor.*, AM PhD *Harv* Asst. Prof

*Carment, D. W., BA *Sask*, MA PhD *Tor* Asst Prof

Wardwell, Elinor S., BS *Tufts*, PhD *Conn* Asst Prof

Coons, W. H., BA *Alta.*, MA PhD *Tor* Sessal Asst. Prof.

†Sp. Lectr

Religion

Chifford, P. R., MA *Oxon*

Assoc Prof., Chairman of Dept

Grant, G. P., BA *Qu*, DPhil *Oxon* Assoc Prof.

3 Instrs †

Romance Languages

*Patrick, A. W., MA *Mam*, DUParis

Prof., Assoc Dean, Fac. of Arts & Sci.,

Hd. of Dept.

Freeman, H. A., BA *Sask.*, MA *Tor.* (French) Prof

*Stock, Marie, BA *Qu*, MA *McG* (French) Assoc. Prof.

PhD *Col* (Spanish) Asst. Prof.

Hampel, L. E., MA *Tor.* (Spanish) Asst. Prof.

Griffiths, D. A., MA *Br.Col.*, DUParis (French) Asst. Prof.

*Peterson, H., MA *Tor.* (Spanish) Asst. Prof.

Launion, G., LesL *Montr.*, Dipd'EtSup *Paris* (French) Lectr.

Gonzalez Martin, J.-P., LicDer *Ouedo* (Spanish) Sessal Lectr

Walker, E. A., MA *Tor* (French) Sessal. Lectr.

Otto, G. S., MA *Qu.* |Sp. Lectr.

RussianShein, L J, BA *Dubuque*, MA PhD *Tor.*Jones, D J, MA *Cambridge* Asst. Prof
Sessl Lectr**Sociology**Jones, F E., MA *McG*, PhD *Harv.*Vallee, F. G., BA *McG*, PhD *Lond.*,
FRAI Assoc. ProfPineo, P C., BA *Bt Col*, MA *McG*,
PhD *Chic* Asst. ProfCrook, R K N, BA *Leeds*, AM *Prin*
Sessl LectrMischel-Henry, Frances, BA *Brooklyn*,
MA PhD *Ohio State* Sessl Lectr

Zoology, see Biol

GRADUATE STUDIESFor members of Fac., see Teaching Staff
marked * under separate subjects**THEOLOGY****Church History**Albaugh, G. P., AB *Ohio State*, BD *Colgate-
Roch.* Assoc. Prof**Hebrew and Old Testament
Interpretation***Parker, Rev. N. H., BS *Mississippi*, ThD
S.BaptistTheol.Sem., Hon. DD *Acad* Prof.**Leadership Training**Tupper, Lois A., BA *BEd Sask.*, MA *Col*
(Religious Educn) Asst. Prof, Dir. of
SchBates, Mrs Marion, Hon *DCL Acad*, BA
(Practical Nursing) Sp Lectr, Deen of
Women**Missions and Religious Education**Kitchen, L. C., PhD *Hartford Sem.*, MA
Assoc Prof, Dir. of Field Work for Div
Students**New Testament Interpretation**Lang, H W, STM *UTS (NY)*,
Hon DD *Acad*, MA BD Prof**Theology**Aldwinckle, R. F., BA *Lond*, MA *Oxon.*,
DTh *Stras.* Prof.Harrop, G. G., PhD *Chic*, BA *ED*
(Bibl Studies) Asst Prof**ADMINISTRATIVE AND OTHER STAFF**Business Administrator & Asst. Dir. of Res.
D M. Hedden, BSc Dir of Student Personnel
Services J. E. Andoff, BA Dean of Women
Mrs Marion Bates, Hon *DCL Acad.*, BA. Dean
of Men P R Clifford, MA *Oxon.* Dir of
Nursing Educn. Alma E Reid, BA *Tor.* Dir.
of Women's Leadership Trg Sch Lois A.
Tupper, BA *BEd Sask.*, MA *Col* Asst. Lib-
rarian Dorothy Davidson, BLS *Tor.*, MA.
Reference & Circulation Librarian. A J Jamieson,
BA BLS *McG* Asst Bursar. C H M
Vinnels Accountant E C Matthews Supt
of Bldgs & Grounds. E T Clarke. Dir of
Alumni Relations D. W. Allaby, BA. Asst.
Registrar Mrs Sheila Scott, BA *W Ont* Asst.to Registrar Sue M Flight Bookstore Manager
Paul W Haeblerlin, BA Asst Dir of
Extension P D Smith, BA *Burn*; F Vernon,
BSA *MEd Tor*; B E Hicks, BCom *Tor.*, CA
Armed Forces Co-ordinator. Lieut G E. Van
Sickle. University Naval Training Division
CO, Lieut.-Commander J. A. Jamieson; Staff
Officer Lieut G E Van Sickle. Canadian
Officers' Training Corps O.C., Capt J E.
Kersell University Support Officer (Army), Capt.
E A Clinker, BA Adjutant, Capt D Whiteford
University Reserve Training Plan, RCAF
CO, Sqn. Leader F N Shrive. Trg Officer,
F/O B. E. Babiski. Support Officer, Fl/Lt C P
Mullin.**AFFILIATED THEOLOGICAL COLLEGE**McMASTER DIVINITY COLLEGE (Baptist),
McMaster Univ. (tel.: Ja 9-7101). Principal—
Rev N. H. Parker, BS *Mississippi*, ThD
S.BaptistTheol Sem, Hon. DD *Acad* McMaster
Divinity Coll is the historical continuation of
what was known for 70 yrs as the fac of theol of
McMaster Univ or as the McMaster Univ div.
sch. An act to incorporate McMaster Divinity
Coll. (1957) created a new corporation, as a
separate foundation, with a bd. of trustees and a
senate. The div coll. operates in affiliation with
the univ, and its grads. receive the BD degreefrom the univ. Its academic and honorary degrees
are awarded by the univ, but it grants certs. and
diplo on its own authority. At present the staff
of the div coll and the staff of the univ.'s fac of
theol (see above) are almost the same, and the
principal of the div. coll. is also the dean of theol.
The Women's Leadership Training Sch., sponsored
by the Baptist Women's Missionary Soc of the Baptist
Convention of Ontario and Quebec, is affiliated with
the div. coll and is under the direction of Lois A. Tupper.

Teaching Staff of Divinity College [†=Part

I

CANADA

Time]. CHURCH HIST.—G. P. Albaugh, AB *Ohio State*, BD *Colgate-Roch.*, Assoc. Prof. HEBREW & OT INTERPRETATION—Rev N. H. Parker, BS *Mississippi*, ThD *S Baptist Theol. Sem.*, Hon DD *Acad.*, Prof. LEADERSHIP TRG.—Lous A. Tupper, BA *Bd Sask*, MA *Col.*, Asst. Prof., Dir. of Sch., Muriel Israel, BA *Col.*, MA *Col.*, Lectr., Asst. Dir. of Sch.; Mrs Marion Bates, Hon DCL *Acad.*, BA, †SP. Lectr., Dean of Women MISSIONS & RELIGIOUS EDUC.—L. C. Kitchen, PhD *Harvard Sem*, MA, Assoc. Prof., Dir. of

Field Work for Div. Students. NT INTERPRETATION—H. W. Lang, STM *UTS (N.Y.)*, Hon DD *Acad.*, MA BD, Prof. PASTORAL COUNSELLING—A. J. MacLachlan, STM *Andover Newton*, MA *Harv.*, BA BD, †SP. Lectr. PRACTICAL THEOL.—I. C. Moigan, BA BD, Asst. Prof. SPEECH—A. R. Poynter, BA BD, †Sessl. Lectr. THEOL.—R. F. Aldwinckle, BA *Lond.*, MA *Oxon.*, DTh *Stras.*, Prof., G. G. Harrop, PhD *Chic.*, BA BD, Asst. Prof.

GENERAL INFORMATION

McMaster Univ., named after senator William McMaster (1811-87), whose will provided its original endowment, operates under the terms of an act of incorporation granted by the legislative assembly of Ontario in 1887 and basically revised in 1957. The univ., which is now a non-denominational private foundation, was a denominational foundation from 1887 to 1957, its governors elected by the Baptist Convention of Ontario and Quebec. It was the outgrowth of educat. work begun in Canada Baptist Coll., Montreal (1838), and contd. in Woodstock, Ontario (1857), and of the theol. work of Toronto Baptist Coll. (1881-87). Toronto Baptist Coll. and Woodstock Coll. formed the nucleus of the univ. in 1887. Until 1926, Woodstock Coll. was contd. as a preparatory sch. for boys, and from 1887 to 1954 a preparatory sch. for girls, Moulton Coll. was maintained in Toronto.

The univ. was transferred to Hamilton in 1930. In 1948, it was reorganized into three colls.: the Divinity Sch., which was the fac. of theol., operating mainly on a postgrad basis, University Coll. (the arts depts.), and Hamilton Coll. (the sci. depts.), the latter operating under its own bd. of governors as an affiliated coll. In 1957, the Baptist Convention withdrew from legal control of the univ., the univ. and Hamilton Coll. becoming one corporation. McMaster Divinity Coll. was at the same time incorporated as an affiliated theol. coll. under a bd. of trustees, univ. lands being assigned for its use.

CONSTITUTION The univ. corporation consists of a bd. of governors of from 30 to 41 members, up to 28 being elected by the bd., 3 (the chancellor, pres. and vice-pres.) being *ex-officio* members, 3 elected by the trustees of McMaster Divinity Coll., 5 by the grads and 2 by the teaching staff. Academic work is controlled by a senate, composed of 10 ps of the fac., governors and grads. The following are *ex-officio* members of the senate: pres. (chairman), vice-pres., dean of theol., dean of arts & sci., dean of grad. studies, dean of engin., assoc. dean of arts & sci., dir. of extension.

INCOME (1959-60) Total income, \$3,423,600 (endowment, \$123,300, govt. grants: provincial, \$780,000, federal, \$450,000, municipal, \$128,000, other, \$27,500, res. funds, \$611,600, fees,

\$784,000, sundries, \$82,400, ancillary enterprises, \$436,800)

FACULTIES AND DEANS, see p. 222.

UNIVERSITY PRECINCT The univ. occupies about 73 acres in the west end of Hamilton, its lands being bordered by tracts of parkland forming part of the extensive acreage of the Royal Botanical Gardens.

LIBRARY, 128,429 vols. The Mills memorial library is the gift of the Mills foundation of Montclair, New Jersey. Four floors provide for a capacity of over 120,000 vols., as well as reference reading room, bibliog. room, and fine arts collection of books, slides, prints, etc. Two sp. collections: the music collection, estab. through the generosity of the Carnegie corporation, contains over 2350 recordings, and a small library of music scores and books on music and musicians; the Baptist historical collection of books, documents and association minutes, forms a valuable record of Canadian Baptist history, past and present. The library also maintains a sci. library in phys. sci. bldg.

LABORATORIES. Res. labs. maintained in most sci. & engin. depts., and are usually in academic bldgs. adjacent to undergrad. labs. Research greenhouse. Res. programmes are under way in all major fields of sci. NUCLEAR REACTOR, housed in its own bldg., operates at one megawatt and is of swimming pool type, using highly enriched U²³⁵ as fuel. Associated with reactor is nuclear res. bldg. containing a hot lab and several radio-isotope labs, as well as specially air-conditioned rooms for scies of mass spectrometers.

Chairman of reactor operational control cttee.—D. M. Hedden, BSc. Reactor staff: W. H. Fleming, MSc PhD (supt.); K. Fritz, PhD (ies. chemist), J. B. McDougall, BSc (supervisor); C. C. McMullen, MSc PhD (res. physicist); R. H. Tomlinson, BSc *Bishop's*, PhD *McG.* (health physicist); D. Whiteford (asst. health physicist).

ADMISSION See Appendix III

FIRST DEGREES 3 or 4 yrs. (from sr. matric.)—BA ord; 4 yrs. (from sr. matric.)—BA hons, BSc hons, BCom hons, BEng, BScN, BA hons. may be taken in classics, econ, econ. &

maths, econ. & pol., Engl. lang. & lit., Engl. & French, Engl. & German, Engl. & hist., Engl. & philos., French & fine arts, French & German, French & Spanish, geog., hist., hist. & econ., hist. & pol., Latin & Engl., Latin & French, Latin & Greek, philos., philos. & hist., psychol., psychol. & biol., sociol., sociol. & psychol. BSc hons. may be taken in appl. maths & theoret. phys., biological chem., biol. & chem., chem., geol. & chem., maths., metall. sci., phys. & phys. & chem. BEng may be taken in chem., civil, electr., mech., metall. engin. and in engin. phys. See also 'Dept of Univ. Extension', below.

HIGHER DEGREES MA, 1 yr. min. after BA (hons), can be taken in classics, Engl., geog., German, hist., philos., pol. econ., psychol., romance langs.; MSc, 1 yr. min. after BSc (hons), can be taken in biol., chem., geol., maths., metall., phys., BD, 3-yr. course after BA, MBA, 1 or 2 curriculum yrs depending on 1st degree, evg. courses only, BPE, 1 yr. min. after BA, BSc, BCom or BScN; MEng, 1 yr. min. after BEng in chem. engin., mech. engin., metall. engin. PhD, 3 yrs. min. after BSc, can be taken in biol., chem., geochem., phys., maths., metall. or, after BA (hons), in psychol. or, after BEng, in metall. engin.

HONORARY DEGREES. LLD, DLitt, DSc, DD

The univ. does not award EXTERNAL DEGREES.

CERTIFICATES. Div. sch., 3-yr. course (from ar. matric) (1 yr. arts and 2 yrs. theol.) Women's leadership trg. sch. in the div. sch., 2 yrs. (from jr. matric, 1 yr. from BA) selected arts and theol., preparatory to missionary and other religious work.

STUDY LEAVE for members of staff. No regular system, each applic. being considered on its merits, having regard to dept. needs. Leave with salary normally granted only if instr. has been awarded a fellowship or grant, and then every effort is made to accommodate him.

FEES (annual) Arts & sci., \$465; engin., \$550; nursing, \$350; theol., \$87.50 These fees cover tuition, lab., registration, library, exams, athletics, med. services, student organizations and accident insurance.

ACADEMIC YEAR From Sept. to May. 2 terms. About 30 wks., 12 1st term, 18 2nd.

SUMMER SESSION. 6-wk. session from about July 3 to Aug. 15.

DEPARTMENT OF UNIVERSITY EXTENSION. Offers courses for BA and BPE degrees, in evg. courses during winter session, at annual summer sch., and at special outside centres, also offers MBA degree in evg. courses during winter session only. all three degcs can be taken entirely by evg. courses Acctg. courses leading to the designation Registered Industrial Accountant (of the Soc. of Indust. & Cost Accountants of Ont.), by evg. courses, at outside centres, and by correspondence, indust. management courses leading to the cert. in indust. management (of the Can-

adian Indust. Management Assocn.), by evg. courses and at outside centres, a wide range of non-credit courses, cultural and industrial. The dept. provides a lecture service operated in the interests of groups desiring speakers from among the fac. The *Univ. Extension Calendar*, containing detailed information concerning both winter evg. classes and summer sch., is publ. annually in Feb.

No 'OPEN' AWARDS offered by univ. to students entering to read for a first degree.

PRINCIPAL 'OPEN' POSTGRADUATE AWARDS. C. I. L. fellowship in chem., \$2000 (\$1200 for academic yr. plus \$800 for 4 summer mos.) plus grant for equipment and supplies for res. leading to PhD in chem. Cominco fellowship, \$1000 plus grant for equipment and supplies for res. in some field of sci. preferably related to mining, metall., or chem. industry. Dow Chemical of Canada fellowship, \$2000 (\$1200 for academic yr. plus \$800 for 4 summer mos.) plus grant for res. expenditures for res. in chem. or chem. engin. Shell Oil fellowship, \$1800 (\$1200 for academic yr. plus \$600 for 4 summer mos.) for res. in chem., chem. engin., geol. or phys. 8 teaching fellowships in arts, \$1500 each. Grad. res. schol. in sci., \$2000 to \$2800 per calendar yr.

GRADUATES ASSOCIATIONS The univ. has local alumni branches in various cities in Canada and U.S.A., run by volunteer officers who depend on the dir. of alumni activities at the univ. for guidance and programmes.

RESIDENCE. For men: Edwards Hall (tels. Centre House, Ja. 2-0884, North House, Ja. 2-0841, South House, Ja. 7-0671), has accomm. for about 100 students, Whidden Hall (tel. Ja. 3-0291) has accomm. for 207 students. For women: Wallingford Hall (tel. Ja. 2-6819) and Moulton Hall (tel. Ja. 9-1143), accomm. in all 233 students. Rates \$575 per session.

MILITARY TRAINING. The univ. naval trg. division offers a programme for training of potential officers in the RCN and the R.C.N. (R.). The univ. contingent Canadian officers' training corps qualifies selected univ. undergrads. for a commission, on graduation, in the Canadian army. Membership in the univ. air squadron, primary reserve, is open to all students who have enrolled in the univ. reserve trg. plan or the regular officers trg. plan, R.C.A.F.

STUDENT PERSONNEL SERVICES assist the student to solve his own educ., vocational and personal problems, and to find part-time summer and full-time employment in accordance with his interests, needs and qualifs.

UNIVERSITY STUDENT HEALTH SERVICE Each new student given complete physical exam. on entrance, warned of special precautions which should be taken to guard against sickness, and advised as to his ability to take part in athletics, etc. Throughout the session the univ. doctor holds daily office hours, when any students may consult him. Grad. nurses are on duty throughout

the academic yr. The univ. maintains 2 infirmaries, 1 for men and 1 for women. Cases requiring hospitalization are cared for in the infirmaries up to 3 days free. After that, an infirmary charge is made. Certain participation in physical trg. required of 1st-yr. students.

ATHLETICS Opportunities for rugby, soccer, tennis, track, harrier, golf, basket-ball, swimming, skiing, hockey, badminton, fencing.

PUBLICATIONS *President's Report*, *Report of*

the bd of trustees and the senate of the divinity coll to the Baptist Convention of Ontario and Quebec (publd. in the *Year Book* of the Baptist Convention of Ontario and Quebec), *Calendars*, *Bulletins* of the dept of univ. extension, *McMaster Alumni News*, *A Handbook and Directory* (Oct.), Undergrad. *The Mase* (quarterly); *Silhouette* (weekly), *Marmor* (annually).

UNIVERSITY BOOKSTORE.

THE YEAR '1960

PRINCIPAL BENEFACTIONS Total value of all benefactions received, \$2,515,000

MAJOR BUILDING DEVELOPMENTS Bldgs completed div. coll bldg., arts & admin bldg. Approaching completion 2 residences, one for men and one for women; student centre.

RETIREMENTS. Prof G. C. Haddow (Engl.); B. Groom (Engl.)

RESIGNATIONS • R. V. Best (geol.), R. R. Haering (phys.), P. R. P. Beesack (maths.), Erica Cruickshank (fine arts), W. H. Williams (maths.), J. H. H. Chalk (maths.).

DEATHS. C. W. New (emer prof of hist.)

HONORARY DEGREES *LLD*—A. B. B. Moore, pres. & vice-chancellor, Vic. Tor., E. A. Payne, gen. sec., Baptist Union of Gt. Britain and Ireland, R. B. Bradley, pres., International Harvester Co. of Canada, Ltd., H. P. Fidd, pres., Frid Construcn. Co. Ltd. *DSc*—R. H. F. Manske, dir., Res. Labs., Dominion Rubber Co., Guelph. *DD*—Rev. E. J. Bailey, pastor, Westmount Baptist Church, Montreal, Rev. W. Daniel, retired Baptist minister, New Westminster, B.C., Rev. R. Lennox, principal, Presbyterian Coll., Montreal, Rev. R. F. Watts, principal, Baptist Leadership Trg. Sch., Calgary, Rev. H. U. Trimmer, editor, *The Canadian Baptist*, Toronto.

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1265	1857
Women	433	817
Total	1698	2674

Distribution by Faculties Arts & sci., 1282, engin., 190, grad. studies, 173, div. coll., 53
Total 1698

Included in the figures above are —

Postgraduate students, 173

New admissions, 621

Students from other countries, 69 (Countries from which largest numbers came: U.K., 15, W. India Fed., 9, India, 7, Pakistan, 7; Hong Kong, 6, U.S.A., 5)

DEGREES AWARDED (1959-60) Ph.D., 11; MA, 12, MSc, 16, BD, 4, BPE, 42, BA (hons), 29, BA, 238, BSc, 52, BCom, 7; BEng (hons), 4, BEng, 19, BScN, 16

DIPLOMAS AWARDED (1959-60) Div., 2.

CERTIFICATES AWARDED (1959-60) Theol., 6, women's leadership trg. sch., 8

UNIVERSITY OF MANITOBA*

Founded 1877

Postal Address: Winnipeg, Manitoba, Canada
Cables and Telegrams: University of Manitoba, Canada
Telephone: Grover 4-9110

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COMPTROLLER—W. J. CONDO, BA
LIBRARIAN—D W FOLEY, BA McM, BLS Tor, AMLS Mich
DEAN OF WOMEN—MARJORIE MACKAY, BA

TEACHING STAFF*

[†=Part-Time]

Actuarial Mathematics and Statistics		Merkeley, N. P., MD ChM, FRCSCan	†Lectr
Vogt, E. R., BCom, FSA		Osberg, E. A., MD	†Lectr
	Assoc Prof, Hd. of Dept	Nagy, K., BSc MD	Lectr.
Geirman, C. B., BA Coll of St Thomas,		Winestock, A. J., MD	†Lectr
MS Wis & Iowa	Asst Prof.	Hay, Jean C., MSc	Lectr.
Clare, J. L., MA Camb., FSA	Asst Prof	Architecture and Interior Design	
Paul, G. I., BSA MSc Alta,		Russell, J. A., BSc(Arch) MArch M I T	
PhD N Carolina	Asst Prof.		Prof, Dir. of Sch
Agriculture, see below		Sellers, R., MArch M I T, BArch	Prof
Anatomy		Harland, Joan M., MA Col, BArch	Prof
Thompson, I. M., BSc MB ChB Edm,		Donahue, A. J., BArch Munn,	
FRSCan	Prof, Hd. of Dept	MArch Harv	Assoc Prof.
Sigurdson, L. A., MA Stan., MD	Assoc Prof	Graham, J. W., BArch	Assoc Pi of
Bertalanffy, F. D., BSc Vienna, MSc		Kostka, V. J., IngArch Prague	Assoc Prof
PhD McG	Assoc Prof	Chrabaszcz, J. J., BFA Syr	Assoc Prof
Moore, K. L., BA MSc PhD W Ont.		Dunklee, D. L., BArch N Y	Assoc. Prof
	Assoc. Prof	Stylhars, D., DArchEng PhD(CP) Berl	
Sinclair-Hall, A. H., MD, FRCSed	Asst Prof.		Assoc. Prof.
Klass, A. A., BA MD, FRCSed,		Gillmor, R. D., MArch M I T.,	
FRSCan	†Asst. Prof	BArch	Asst Prof.
Cooke, R. L., BSc Sask., MD, FRCS,		de Forest, C., MArch M I T.	Asst. Prof
FRSCan	†Lectr.	Zlik, R., BArch McG, MArch M I T	
Dexter, P. H., MD, FRCS	†Lectr	Featherstone, K., DipArchit Manc,	Asst Prof.
		MArch Ill	Asst. Prof

* Member of the Association of Universities of the British Commonwealth

Forster, P. W.
 Austrmann, Miss Raquell, BID
 Marshall, C. G., BID
 da Rosa, G. U., BArch H.K.
 Gillmor, R. D., MArch M.I.T.,
 BArch
 Clarke, R. P. A., MArch Harv.
 6 Assts

Art

Williams, R. E., BA CarnegieTech Inst,
 MFA Iowa Prof, Dir
 Richards, C. C. Assoc. Prof
 Bjelajac, N., BS Wis State Coll. (Mil-
 waukee), MS Wis. Asst. Prof.
 Swinton, G., BA McG. Asst. Prof.
 Bruce, R. D. Asst. Prof.
 Eyre, I. K., BFA Lectr.
 Moulton, W. D., BA Kent State,
 MFA Iowa Lectr.
 Eliasson, G., DipArt Lectr., Registrar

Astronomy, see Maths.

Biochemistry

Hagen, P. B., MB BS Syd Prof, Hd. of Dept
 Delory, G. E., MSc PhD Lond. Assoc. Prof
 Kleinberg, I., DDS Tor, PhD Durh.
 Lees, H., BSc Luv., PhD Lond. Assoc. Prof
 Lunford, J. H., PhD Lond., MSc Asst. Prof
 Fraser, M. J., MSc Dal, PhD Camb. Asst. Prof
 Yamada, Esther, MSc W Ont,
 PhD McG. Asst. Prof
 Suderman, H. J., MSc Asst. Prof

Botany

Waygood, E. R., MSA PhD Tor Prof, Hd. of Dept
 Isaac, P. K., DIC, PhD Lond. Assoc. Prof
 Ritchie, J. C., BSc PhD Sheff Assoc. Prof
 Walker, Jennifer, BSc Lond, MSc Lectr.
 1 Res Asst., 2 Res. Fellows

Business Administration and Finance

Harris, R. F., BCom MA Tor Prof, Hd. of Dept
 Grimmer, M. J. D., MA Acad Asst. Prof
 Mundie, J. D., MBA Ohio, BCom Asst. Prof
 Waugh, J. B., BCom Tor., CA Asst. Prof
 Caterina, R., BCom Tor., MBA NY U,
 CA Asst. Prof
 Edwards, C. H. C., LLB Lond Sessl. Lectr
 Guy, R. D., BA LLB Sessl. Lectr.
 Tallin, C. K., QC, MA LLB Sessl. Lectr

Chemistry

Campbell, A. N., DSc Aberd., MSc PhD
 Lond., FRIC, FRSCan, FCIC Prof, Hd. of Dept
 Robinson, A. D., MA Sask., PhD Minn.,
 FCIC Prof.

Charlesworth, E. H., MA Qu., DPhil Oxon.,
 FCIC Prof.
 Funt, B. L., MSc Dal, PhD McG., FCIC Prof.
 Dunn, G. E., BSc Acad, MA Tor.,
 PhD Iowa Prof.
 Biermann, W. J., BS St Louis, PhD Wis
 Asst. Prof
 Kartzmark, Eleanor M., MSc PhD Assoc. Prof
 Loudfoot, J. H., BSc Glas., PhD Asst. Prof.
 Gesser, H., PhD McG., BSc Loyola
 (Montreal) Asst. Prof
 Schaefer, T. P., DPhil Oxon, MSc Asst. Prof.
 Anderson, J. A., MSc Alta., PhD Leeds,
 FCIC, FRSCan Hon. Lectr.
 Rodewald, W., MSc Lectr.
 Bock, E., MSc PhD Lectr

Classics

Hugill, W. M., BA Tor., PhD Chic. Prof, Hd. of Dept
 Berry, E. G., MA Qu., PhD Chic. Prof
 Griffin, A. K., MA Oxon, PhD Tor. Visiting Prof
 Russell, J., MA Edin Lectr

Economics and Sociology

Waines, W. J., MA Prof, Hd. of Dept.
 Barber, C. L., BA Sask, MA Clark,
 PhD Minn. Prof.
 Pentland, H. C., MA Oregon, PhD Tor.,
 BA Assoc. Prof
 Beilan, R. C., MA Tor., BA PhD Col. Asst. Prof
 Dallyn, F. J. G., BA Tor., AM Harv. Asst. Prof.
 Charles, K. J., MA Madr., PhD McG. Asst. Prof.
 Matthews, D. T. J., MA Durh. & Calif. Asst. Prof

Education

Brown, J. M., BA McM., BEd Sask,
 EdD Stan, MEd Prof.
 Boyce, Eleanor, MA Hon. LLD St.F.X.,
 PhD Assoc. Prof
 Lucow, W. H., MA Ott., PhD Minn.,
 BA MEd Assoc. Prof.
 Baker, Dons, BA MEd Assoc. Prof.
 Harley, J. K., MA St And., EdM Harv.
 Assoc. Prof.
 Hedley, R. L., BA MEd Asst. Prof
 Wilson, K., MA Sheff, BEd Asst. Prof
 Uhlman, H. J., MA Acad, MEd Tor.,
 PhD Alta. Asst. Prof
 12 Sp. Lectrs.

Engineering, Civil

Riddell, W. F., MSc, MEIC Prof, Hd. of Dept.
 MacDonald, A. E., MSc(CE) McG.,
 Hon DEng N S T C, MEIC Prof
 Baracos, A., BSc MSc(CE) Alta. Assoc. Prof
 Carlson, A. J., BSc Qu., MASC Tor.,
 MEIC Assoc. Prof
 Dutton, V. L., MSc Penn.State, BSc(CE)
 Assoc. Prof.

Kuiper, E, BSc(CE) <i>T.H Delft</i> , MSc(CE) <i>M.I.T</i>	Assoc Prof	Cowie, V S, BA	Asst Prof
Larson, A G, MASC <i>Br Col</i> , MLC	Assoc Prof	Anderson, L, BA	Lectr
Magill, E S, BSc(CE), MEIC	Assoc Prof	Gold, J, BA <i>Bum</i> , PhD <i>Wis</i>	Lectr
Marantz, O, BSc(CE) MSc, MEIC	Assoc Prof	Nicol, I, MA <i>Tor</i>	Lectr
Fritz, C G, BME <i>Villanova</i> , MSc ME <i>Purdue</i>	Assoc Prof	Summerhayes, D C., BA <i>McM</i> , MA <i>Tor</i>	Lectr
Glanville, J I, MSc(CE) <i>Belf</i> .	Asst Prof.	1 Grad Asst	
Lazar, R, MSc(CE) <i>Ill</i> , BSc(CE)	Asst Prof		
Beley, W P, BSc(CE)	Asst Prof		
Clayton, G L, BSc(CE)	Asst Prof.		
Godfrey, T W, MSc(CE)	Asst Prof		
Berwanger, C, BEng(CE) <i>McG</i> , MSc <i>Qu</i>	Asst Prof.		
Dolhun, E, MSc(CE)	Asst. Prof.		
Mindess, M, MSc	Lectr		
Morris, G. A., MSc(CE)	Lectr		
16 Demrs.			

Engineering, Electrical

McMath, J P C, BSc(EE) <i>Alta</i> , MEIC	Prof, Hd of Dept
Wicks, S G, BSc(EE), MEIC	Assoc Prof
Haakonsen, H M, BSc(EE) <i>Qu</i>	Assoc Prof
Johnson, R. A., MSc(EE)	Assoc. Prof
MacDiarmid, H A, MSc(EE)	Asst Prof
Bridges, E, MSc(EE), MEIC	Asst Prof
Shepherd, W, BSc(Eng) <i>Lond</i> , MASC <i>Tor</i>	Asst Prof
Swift, G W, MSc <i>Alta</i>	Lectr
9 Demrs	

Engineering, Mechanical

Chant, R E, MEng(Mech) <i>McG</i> , MEIC	Prof, Hd of Dept
Gawley, H N., BSc(ME) <i>Sask</i> , MEIC	Assoc Prof
Bennett, C. P, MSc <i>Birm</i> , BSc(ME), MEIC	Asst. Prof
Alexander, W D, MSc(ME) <i>Mtch</i> , BSc(ME), MEIC	Asst Prof.
Craik, D W, MSc <i>Minn</i> , BSc(ME)	Asst Prof.
Young, H. J. T, BSc(ME)	Asst Prof.
North, H. T, BSc(ME) <i>Qu</i>	Asst. Prof.
6 Demrs.	

English

Wheeler, A L., BA <i>Br.Col.</i> , MA <i>Tor</i> , PhD <i>Wis</i>	Prof, Hd. of Dept
Saunders, DOIIS B., BLitt <i>Oxon</i> , Hon. LLD <i>Br.Col</i> , MA	Prof
Peter, J D, BA LLB <i>S.A.</i> , MA <i>Camb</i> , DLitt <i>S.A.</i>	Prof
Stobie, W G, MA <i>Tor</i> .	Assoc. Prof.
Brodersen, G L, MA <i>Oxon</i> .	Assoc. Prof.
Duncan, T A W, MA	Assoc. Prof.
Howarth, H, MA <i>Oxon</i> .	Assoc. Prof.
Turner, J O, MA <i>Bed</i>	Asst Prof
Robinson, J M, MA PhD <i>Tor</i>	Asst. Prof
Woodbury, J C, MA <i>Tor</i> , BA	Asst Prof
Collie, M J, MA <i>Camb</i> .	Asst Prof
Sanders, R J, MA	Asst Prof
Warhaft, S, BA PhD <i>Northwestern</i>	Asst Prof

French

Jones, C. M, MA <i>Wales</i> , DUParis	Prof, Hd. of Dept.
Jensen, C A, BA <i>W Ont</i> , MA <i>Tor</i> , PhD <i>Chic</i>	Prof
Richard, M E. J, BA <i>Alta</i> , Dipl <i>École</i> <i>dePrép</i> , Paris	Assoc. Prof.
Clark, C N., MA PhD <i>Yale</i>	Asst. Prof.
Denny, E, MA	Asst. Prof.
Goldstine, Enid, BA DUParis	Asst. Prof.
Walters, R. L., BA <i>Oberlin</i> , PhD <i>Prin</i> .	Asst. Prof.
Joubert, A., L&L Dipl'd <i>ÉtSup Paris</i>	Asst Prof
Clark, J E., Dipl <i>ÉcoledePrép</i> , Paris, BA	Lectr
Genuist, A, L&L Dipl'd <i>ÉtSup Rennes</i>	Lectr
Martin, M. E, BA	Lectr

Geography

Weir, T R, BA <i>Br Col</i> , MA <i>Syr.</i> , PhD <i>Wis</i>	Prof, Hd. of Dept
Parker, W H, MA BSc DPhil	Assoc Prof
DipEd <i>Oxon</i>	Asst Prof
Warkentin, J. H, BSc MA <i>Tor</i>	Asst Prof
Nieuwolt, S, PhD <i>Vienna</i>	Lectr
Dunlop, J. S, MA <i>Glas</i>	Lectr

Geology and Mineralogy

Brownell, G McL, PhD <i>Minn</i> , MSc, FRSCan	Prof, Hd of Dept
Leith, E I., MSc	Prof
Wilson, H D B, MS PhD <i>Cal Tech.</i> , BSc	Prof
Ferguson, R. B, MA PhD <i>Tor</i> .	Prof
Russell, G. A, EM <i>Minn</i> , MSc <i>Qu</i> .	Assoc Prof.
Brisbin, W C, BSc(GE) PhD	Asst. Prof
Anderson, D T, BSc <i>Qu</i> , MSc <i>Mant</i>	Lectr.

German

Stirk, S D, MA <i>Oxon</i> , DPhil <i>Bies</i>	Prof
Maurer, K W., PhD <i>Tubingen</i>	Prof
Cardinal, C. H., MA <i>McG</i> , PhD <i>Tor</i>	Asst Prof

History

Morton, W L., MA BLitt <i>Oxon</i> , BA Hon. LLD, FRSCan	Prof, Hd of Dept
Glover, R, MA <i>Oxon</i> , AM PhD <i>Harv</i> , FRHistS	Prof
Oleson, T J, PhD <i>Tor.</i> , MA	Prof
Webster, T S, MA <i>Qu</i>	Assoc Prof
Yuzyk, P, MA <i>Sask</i> , PhD <i>Minn</i>	Assoc Prof
McEwen, J M, BA <i>Tor.</i> , MA <i>Manc</i> , PhD <i>Lond</i>	Asst Prof
Mallett, M E., MA DPhil <i>Oxon</i>	Lectr.

Icelandic

Bessason, H., CandPhil CandMag *Iceland* Assoc. Prof

Interior Design, see Archt

International Relations, see Pol Sci.

Judaic Studies

Schachter, Rabbi Z. M., MA *Boston* Assoc. Prof
Sures, Mrs Yael, BA *Jerusalem* Lectr.

* **Law**, see Affiliated Colls., below

Mathematical Physics

Neamtan, S. M., BSc PhD *McG.*, MA *Tor.* Ptof.

Coush, H. R., BA BSc *Mt All.*, MSc *Dal.*,
MA PhD *Tor.* Prof

Derrick, G. H., BSc *Q'ld*, MSc PhD *Syd.* Asst Prof

Mathematics and Astronomy

Lawson, J. W., PhD *Chc.*, MA Prof, Hd. of Dept.

McEwen, W. H., MSc *Sask.*, MA PhD *Minn.* (Maths) Prof

Mendelsohn, N. S., MA PhD *Tor.*, FRSCan Prof

Dulmage, A. L., MA PhD *Tor.* Prof.

Noonan, B., MA *Tor.*, PhD *McG.* Assoc. Prof

Moser, W., MA *Minn.*, PhD *Tor.*, BA Assoc. Prof.

Zeler, F., MSc *Alta.*, MA *Minn.*, BSc Asst Prof

Nannini, A., PhD *Pisa* Asst. Prof

Swirles, J., PhD *Nott* Asst. Prof

Lockhart, R. J., BA *W'Ont* Asst Prof

Black, L. D., BSc Lectr

Finlayson, H. C., MSc *Alta.* Lectr

Johnson, Daane, MSc PhD *Tor.* Lectr

Muldrew, A. W., MA BEd Lectr

Medicine, see below**Microbiology**

James, N., BSA *Tor.*, PhD *Iowa State*,
FAAAS Sp Prof

Campbell, N. E. R., BSA *Tor.*, MSc PhD Asst Prof

Hawirko, Roma, MSc PhD *McG.*, BSc Asst. Prof

Sanwal, B. D., MSc *Alld*, PhD *Delhi*,
DrNatSc *Zitr.* Asst Prof

Mineralogy, see Geol. and Mineral.

Music

Gibson, R. W., MusB *Mane.* Assoc Prof, Dir. of Sch.

Sampson, Peggie, MusBac *Edn* Asst. Prof

Jones, G. L., BA MusM *Yale* Lectr

Nursing Education

Hart, Margaret E., BSc MA *Col.* Dir

McLeod, Mona M., BSc MA *Col.* Instr.

Pharmacy and Pharmaceutical Chemistry

Murray, J. R., MSc *Alta.*, PhD *Ohio State* Prof, Dir

Steele, J. W., BSc PhD *Glas.* Asst. Prof

Wensley, W. R., MSc(Pharm) *Tor.* Asst. Prof

Alexander, W. E. L., MSc(Pharm) *Sask* Lectr

Bilous, R., BSc(Pharm) Lectr

Philosophy

Sibley, W. M., MA *Br Col.*, PhD *Brown* Prof, Hd

Glassen, P., MA *Tor.*, AM *Harv.* Assoc. Prof.

Huggett, W. J., MA PhD *Tor.* Asst. Ptof.

Burgener, R. J. C., MA PhD *Tor.* Asst. Prof.

Vincent, R. H., MA *Harv.*, BA Lectr

Physical Education

Kennedy, W. F. R., MA EdD *Col.* Prof., Dir.

Fraser, A. J., BSc(PE) *McG.* Asst. Prof.

Hrenchuk, E. J., BPHE *Tor.*, MA *Minn.* Asst Prof

MacDiarmid, J., BPE *Br Col.*, MA *Minn.* Asst. Prof.

Jones, Magretta, BPE *Br Col.* Lectr.

Skinner, Ruth, BA BEd Lectr.

Waddell, Heather A., BPE *Br Col.* Lectr

Physics

Whitmore, B. G., BSc *Lond.*, MA *Tor.*,
PhD *Leip* Prof, Hd. of Dept

Connor, R. D., PhD *Edin* Prof

Roulston, K. I., BA MSc *Dub.*, PhD Prof.

Kelly, F. M., MA PhD *Tor.* Prof.

Douglas, D. G., MA *Sask.*, PhD *McG.* Assoc. Prof

Hogg, B. G., MA *Wesleyan*, PhD *McM.* Assoc Prof

Standil, S., MSc *Qu.*, PhD Assoc Prof

Standing, K. G., AM PhD *Pym*, BSc Assoc. Prof

Kettner, M. E., MA PhD *Minn.*, BSc Assoc Prof

MacDonald, P. A., MSc PhD Asst Prof.

Cooke, I., BSc *Glas.*, PhD *Birm* Asst Prof

Dahlstrom, C. E., MA *Sask.*, PhD *McG.* Asst Prof

Fairweather, I., PhD *Edin* Asst Prof

Naqvi, S. I. H., MSc *Luck.* & *Mant.* Lectr

Tomchuk, E., BA MSc Lectr.

Physiology, see Medicine, below

Polish, see Slavic Langs

Political Economy, see Econ and Sociol.

Political Science and International Relations

Hiscocks, C. R., MA *Oxon.*, DPhil *Berl* Prof, Hd of Dept

Donnelly, M. S., BA *Mt.All.*, PhD *Tor.* Assoc. Prof

Avakumovic, I, MA *Lond*, DPhil *Oxon*
Asst Prof
Hull, W H N, MA *W Ont.*, PhD *Duke*
Asst Prof

Psychology

Zubek, J P, BA *Br Col*, MA *Tor*,
PhD *Johns H* Prof, Hd. of Dept
Springbett, B M, MA *Alta*, PhD *McG*
Burns, Joyce H, MA *Tor*, BA Asst Prof
McCormack, P D, BA *Car*, MA *Del*,
PhD *Iowa* Asst Prof
Koppelaar, R J, MA *Br Col*, PhD *McG*
Asst Prof
Wright, M, MA PhD *Tor*, BA Asst Prof
Cooper, R. M., PhD *McG*, MA Lectr.

Russian, see Slavic Langs

Slavic Languages

Rudnyckij, J. B., PhD *Lwow*
Assoc Prof, Chairman
Yuzyk, P, MA *Sask.*, PhD *Minn* Assoc Prof

Social Work

Mann, Helen M., AM *Chic*, MA *McM*
Prof., Dir
Roger, Maysie, MA *Oxon.*, BA
DipSocSc *Tor* Assoc Prof
Robins, Marjorie M., BA DipSocWork *Tor*
Assoc Prof
Easterbrook, Mary A., MSS *Smith*, BA
DipSocWork Asst Prof
Hill, B, MSW *Tulane* Asst Prof
Culham, Lottie, BA *Sask.*, BSW *Br Col*,
MSW *Tor* Field Instr
Lederman, Lottie, BA *W Ont*,
DipSocWork *Tor* Field Instr
McArton, Mrs. Dorothy, BA *Sask.*,
DipSocWork *Tor* Field Instr
Woolley, Patricia, MS *Col*, BA BSW
Penwarden, G., BA BSW AM *Chic* Field Instr
Poskanzer, B, BA N Y *State Coll*,
DipSocWork *Jerusalem*, MSc *Col*
Field Instr
Robertson, Margaret, BA DipSocWork
Unit Super
Sinclair, Miss Shelagh, BA DipSocWork Instr

Sociology, see Econ and Sociol

Statistics, see Actuarial Maths

Ukrainian, see Slavic Langs

Zoology

McLeod, J. A., MSc PhD DipEd
Prof., Hd of Dept.
Stewart-Hay, R. K., MSc Asst. Prof.
Houston, A. H., BSc *McM*, MA
PhD *Br.Col.* Asst Prof.
Lubinsky, G. A., MB BS MSc *Kie*,
PhD *McG* Asst Prof.
Weisman, H., MSc PhD Lectr

AGRICULTURE AND HOME ECONOMICS

Weir, J. R., BSA *Tor.*, MSc *Alta*,
PhD *Minn* Dean of Fac.

Agricultural Economics and Farm Management

Sinclair, S., BSA MSc *Sask*, PhD *Minn.*
Prof., Hd. of Dept.
Gilson, J. C., PhD *IowaStateAgric*,
BSA MSc *Sask* Assoc. Prof.
Wood, A. W., BA BSA MSc *Sask*,
PhD *Stan* Assoc. Prof.
Trifon, R., BA *Jerusalem*, PhD *Lond.*
Assoc. Prof.
Anderson, G. R., BS *Wis.*, MS *Mich State*
Asst. Prof.
Hudson, J. P., BSA Res Assoc.
Yeh, M. H., BS *Taiwan*, MS *Mich State*,
PhD *IowaStateAgric*. Res Assoc.

Agricultural Engineering

Lapp, H. M., BE *Sask*, MEIC*
Assoc Prof, Hd. of Dept.
Domier, K. W., BE MSc *Sask* Asst. Prof.
Hendrickson, M., BE *Sask* Lectr
Tennenhouse, F., BSA Lectr

Animal Science

Stringam, E. W., MSc *Alta*, PhD *Minn.*
Prof., Hd. of Dept.
Savage, A., BSA *McG*, DVM *Corn.* Prof
Hodgson, G. C., MS *Corn.* BSA DipEd
Assoc. Prof.
Kondra, P. A., PhD *Minn*, BSA MSc
Assoc. Prof
Seale, M. E., BSc *Alta*, MS *Minn* Assoc. Prof
Stothers, S. C., BSA *Tor*, MS
PhD *Mich State* Assoc. Prof
Roberts, W. K., BS *Calif StatePolytechnic*,
MS PhD *Wash State* Asst. Prof
Sell, J. L., PhD *Iowa* Asst Prof
Isa, J. M., MSc DVM *Tor*
Dir, Animal Pathol & Vet Lab
Phillips, G. D., BVSc BSc *Liv.* Asst Prof

Art

Allen, Lillian B., BA MS *Syr* Assoc Prof
Ctroth, Christina, BSc *Kansas State* Lectr

Clothing and Textiles

Morton, Margaret I., MA *Tor*,
BSc(Hec) Asst. Prof
Watson, Mrs Kathleen T., MS *Minn*,
BSc(Hec) Asst Prof
Roberson, Nena, BS *Texas Tech*,
MS *Corn.* Asst. Prof
Rennebohm, Fern H., MS *Wis.* Asst Prof
Burgess, Miss K. E., BSc *Alta.* Lectr

CANADA

Dairy Science

Nesbitt, J M, MSc *Ohio State*, PhD *Penn State*, BSA Prof, Hd of Dept
McNaughton, C H, BSA *Sask*, MSc Asst Prof.

Diploma Course

Lange, E H, MSc *McG.*, BSA Assoc Prof, Dir
Tallin, R, BA LLB Lectr.

Education

Watson, Mrs Kathleen T, MS *Minn*, BSc(HEC) Asst Prof

Entomology

Thorsteinson, A J, PhD *Lond*, BSA Prof, Hd. of Dept.
Robinson, A. G, MC, MSc *McG*, BSA Assoc. Prof
Hanec, W, BSA MSc PhD *McG*, Asst Prof
Robertson, D R., BSA *Tor.*, MSc Lectr

Foods and Nutrition

Feniak, Mrs. Elizabeth, MS *Minn*, BSc(HEC) Assoc. Prof
Smith, M Louise, MS *Col.*, BSc(HEC) Asst Prof
Weber, Shirley M., MS *Minn.*, BSc(HEC) Asst Prof
Baxter, Donna M., MS *Simmons*, BSc(HEC) Asst Prof
Bolton, Mrs. Dorothy M, BSc(HEC) Lectr

Home and Family Living

Davis, Lorna M., MA *Tor.* Prof, Dir, Sch of Home Econ
Keith, Dorothy H, BA *Sask.*, MEd *Tufts* Asst Prof
Roberts, C C., BEd MA *Wash.State* Asst Prof

Institutional Administration

Smith, M Louise, MS *Col.*, BSc(HEC) Asst Prof
Rydeen, Anna, BSc(HEC) Instr

Plant Science

Shebeski, L H J, BSA MSc Prof, Hd of Dept.
Jenkins, B. C., BScAgr MSc *Alta*, PhD *Calif.* (Agron) Samuel Rosner Prof
Peterson, R. F., MS PhD *Minn*, BSA Hon. Prof
Johnson, T., BSc BSA *Sask.*, MSc PhD *Minn.*, FRSCan Hon. Prof.
Helgason, S B., MS PhD *Minn*, BSA Prof.
Ferguson, A C., PhD *Minn*, BSA Prof
Gordon, W L, BSc(Agric) MSc *McG.*, PhD *Wis* Hon Assoc Prof
Hagborg, W. A F, PhD *Tor*, BSA Hon Assoc Prof.
Friesen, G, PhD *Wash.State*, BSA MSc Assoc. Prof.

Truscott, J D., BA MSc *Sask.*, PhD *Iowa* Assoc Prof
McGinnis, R C., MSc *Alta*, PhD Assoc. Prof
Menzies, J. A., BSA Asst. Prof
Siemens, L., BSA MSc Asst Prof
Hikida, H R, BSA MSc Asst Prof
Storgaard, Anna K., PhD *Penn.State*, BSA MSc Asst Prof.
Walker, J, BSA *Alta*, MS *Minn* Res Assoc
Stefansson, B. R, BSA MSc Res Assoc
Peturson, B., BSc PhD *Minn*, BSA Res Assoc
Chernick, Mrs. B, BSA MSc Res Asst
Evans, L E., BSA *Sask.*, MSc PhD Res. Asst

Soils

Hedlin, R. A., BSA *Sask*, MSc *Alta*, PhD *Wis.* Prof., Hd of Dept
Zwanch, M. A., BA BSA MSc *Sask*, PhD *Rutgers* Asst. Prof.
Soper, R J, BSA MSc *Sask.*, PhD *McG* Asst Prof
Ridley, A O., BSA MSc Lectr
Ehrlich, W A, BSA MSc PhD *Minn* Sr Pedologist

DENTISTRY

Bias, G A, DDS BSD *Northwestern* (Restorative D) Prof, Hd of Dept
Doupe, J, MD, MRCP, FACP (Physiol) Prof, Hd of Dept
Hagen, P B, MB BS *Syd* (Biochem) Prof, Hd of Dept
Hart, H W, DMD *Oregon*, FACP (Prosthodontol) Prof, Hd. of Dept
Lederman, J M, BSc *Sask*, MD, FRCPCan (Pathol) Prof, Hd of Dept
Neilson, J W, BA *Sask*, DDS *Alta*, MSc *Mich*, FACP (Oral Biol.) Prof, Hd of Dept
Nickerson, M, MD *Utah*, AB *Linsfield*, ScM *Brown*, PhD *Johns H* (Pharmacol & Therapeutics) Prof, Hd of Dept
Schiam, W R., DDS *Minn*, MSD *Northwestern* (Oral Biol.) Prof
Sisler, G E., MD, FRCPCan (Psychiatry) Prof., Hd of Dept
Thompson, I M, BSc MB ChB *Edm.*, FRSCan (Anat.) Prof, Hd of Dept
Witt, J C, MD MSc, FACP (Bacteriol) Prof, Hd of Dept.
Bertalanffy, F C, BSc *Vienna*, PhD *McG.* (Anat) Assoc Prof
Delory, G E, MSc PhD *Lond* (Biochem) Assoc Prof
Diepenheim, J, DDS *Alta*, DiplDent *Utrecht* (Restorative D) Assoc Prof
Dowse, C M, BSc *Lond*, PhD *Durh* (Oral Biol) Assoc. Prof
Gemmell, J P, MD, MRCP, FRCPCan (Med) Assoc Prof, (Pharmacol & Therapeutics) Sp. Instr.
Kasloff, Z, DDS *Minn* & *Dal.*, MS *Indiana* (Restorative D) Assoc. Prof.

Kleinberg, I, DDS *Tor*, PhD *Duak*
(Biochem.) Assoc Prof
Lees, H, BSc *Liv*, PhD *Lond*
(Biochem.) Assoc Prof
Marshall, F J, DMD *Oregon*, MSc *Ill*
(Oral Biol.) Assoc. Prof
Moore, K L, BA MSc PhD *W Ont*
(Anat.) Assoc Prof
Ridge, J M, BSc MD (Pathol.) Assoc Prof
Sigurdson, L A., MA *Stan*, MD
(Anat.) Assoc Prof
Spouge, J D, MDS *Sheff*, FDSRC
(Oral Biol.) Assoc Prof
Stephens, R G, DS *Tor*
(Oral Biol.) Assoc Prof
Trott, J R., BDS *Adel* (Oral Biol.) Assoc Prof
Allison, G E, MD, FRCPCan
(Psychiatry) Asst Prof
Averback, M J, DDS *Minn* & *Alta*
(Oral Biol.) Asst Prof
Cadoret, R., AB *Harv*, MD *Yale*
(Physiol.) Asst Prof
Cohen, L H, PhD *Tor*, MSc
(Pharmacol & Therapeutics) Asst Prof
Cole, E N, DDS *Tor*, MS *Pitt*, BSc
(Oral Biol.) Asst Prof
Dresel, P E, BSc *Antioch*, PhD *Roch*
(Pharmacol & Therapeutics) Asst Prof
Frank, G B, BS *C C N Y*, MSc *Ohio*
State, PhD *McG*
(Pharmacol & Therapeutics) Asst Prof
Fraser, M J, MSc *Dal*, PhD *Camb*
(Biochem.) Asst Prof
Grahame, J M, DDS *Tor*
(Restorative D.) Asst Prof
Hannon, C K, BSc PhD *McG*
(Bacteriol.) Asst Prof.
Innes, I R, MD *Aberd*
(Pharmacol & Therapeutics) Asst Prof
Romeyn, J D, MD *Tor*
(Bacteriol.) Asst. Prof.
Sinclair-Hall, A. H., MD, FRCSEd
(Anat.) Asst. Prof
Suderman, H J, MSc (Biochem.) Asst Prof
Wright, M W., MA PhD *Tor*, BA
(Psychol.) Asst Prof
Yamada, Esther W, MSc *W Ont*,
PhD *McG* (Biochem.) Asst. Prof
Yamada, S I, MSc PhD *W Ont*
(Pharmacol & Therapeutics) Asst Prof
Campbell, W G, DDS *Minn*,
MPH *Mich*. (Restorative D.) Lectr
Cleveland, E. M D., MA *Br Col*,
PhD *McG* (Bacteriol.) Lectr
Connor, R A., DDS DDPH *Tor*
(Oral Biol.) Lectr.
Garvin, M H, DDS *Tor*, LLD
(Oral Biol.) Lectr
Hay, Jean C., MSc (Anat.) Lectr
McCarten, R J, DDS *Tor*.
(Prosthodontol.) Lectr.
Nagy, K., BSc MD (Anat.) Lectr
Osberg, E A., MD (Radiographic Anat.) Lectr
Pickard, E W, MD (Surg.) Lectr
Riley, W. J, DDS *Tor*. (Oral Biol.) Lectr.

Winestock, A. J, MD
18 Demrs, 16 Sp Lectrs.

(Anat.) Lectr

MEDICINE

(for subjects of first 2 yrs —Anat.,
etc, see above)

Bacteriology and Immunology

Wilt, J C, MD MSc, FACP

Prof, Hd of Dept

Warner, P, MD PhD *Lond*. †Assoc Prof
Hannon, C. K., BSc PhD *McG* Asst Prof
Romcyn, J A., MD *Tor* Asst Prof
Lansdown, L P, DPH *Tor*, MD †Lectr
Parker, W L Lectr
Thomas, Catherine E, BA *Sask*, MD Lectr
4 Demrs

Medical Research, sec Physiol and Med Res, below

Medicine

Bell, L G, MBE, MD, FRGP, FRCPCan,
FACP Prof, Hd of Dept
Adamson, G L, MD, MRCP, FRCPCan †Assoc Prof
Allison, F G, BA MD, MRCP, FRCPCan †Assoc Prof
Gemmell, J P, MD, MRCP, FRCPCan †Assoc Prof
Kilgour, J M., BSc MD, FRCPCan,
MRCP, FACP †Assoc Prof
Mathewson, F A L, MD BSc(Med),
FACP †Assoc Prof.
McEwen, D. S., BA BSc MD †Assoc Prof.
Walton, C H A., ED MSc MD, FACP †Assoc Prof
Beamish, R E., BA *McM*, MD, MRCP,
FRCPCan, FACP †Asst Prof
Beckstead, J L., MD †Asst Prof.
Hughes, J. F. S., MD MSc, FRCPCan †Asst Prof
Israels, L G, BA *Sask*, MD MSc,
FRCPCan †Asst Prof
Kippen, D L, MD, FACP †Asst Prof
Maclean, J P, MD †Asst Prof
Ross, R T, MD, MRCP, FRCPCan †Asst Prof.
Schoemperlen, C B, MD, FACP †Asst Prof.
Thomson, A E., BA *Sask*, MD MSc,
FRCPCan Asst Prof
Vasrub, S, MD, MRCP, FRCPCan,
FACP †Asst Prof
Birt, A R, MD (Dermatol.) †Asst Prof
Brook, W. G., MS *Minn*, BA MD †Asst Prof
Brownell, E. G., MD, MRCP, FRCPCan,
FACP †Asst Prof
Chernack, L, MD BSc(Med), FRCSCan,
MRCP, FACP †Asst Prof
Chernack, R. M., MD MSc, FRCPCan Asst Prof
Coke, L R., MD, FACP †Asst Prof
Fyles, T W., MD MSc, FRCPCan Asst Prof

CANADA

Green, P. T., BA MD *Tor.*, FRCPCan,
FACP †Asst Prof
Houston, A. B., BSc *Sask.*, MD,
FRCPCan, FACP †Asst Prof
Bennett, W. J., MD †Lectr
Campbell, M. H., MD †Lectr
Cera, L. J., MD MSc, FRCPCan †Lectr
Cumming, G. R., MD, FRCPCan †Lectr
Downey, J. L., MD †Lectr
Karlinsky, W., MD, FRCPCan †Lectr
Lyons, B. H., MD *Alta.*, FRCPCan,
FACP †Lectr
McDonnell, J. A., MD †Lectr
McFarlane, R. H., MD †Lectr
McCreath, N. D., MB ChB *N.Z.*,
MRACP, MRCP †Lectr
Martin, J. H., BA MD †Lectr
Morris, J. E., BSc MB ChB *Man.*,
MD *Rech.*, MRCP †Lectr
Polson, R. A., MD, FRCPCan †Lectr
Poncock, J. G., MD †Lectr
Ross, E. L., MD †Lectr
Rusen, S., MD †Lectr
Scott, D. L., MD (TB) †Lectr
Sinclair, A. C., MEd †Lectr
Snidal, D. P., MD MSc †Lectr
Tisdale, P. K., BSc MD †Lectr
Cuddy, T. E., MD, FRCPCan †Lectr
Fratin, J. B., MD *Tor.*, FRCPCan †Lectr
McDowell, J. D., MB ChB *Belf.* †Lectr
Rogers, A. G., MD, FRCPCan †Lectr
9 Teaching Fellows, 12 Demrs †, 5 Tutors †,
2 Sp. Lectrs.

Obstetrics and Gynaecology

Black, Elinor, MD, FRCSCan, FRCOG,
FACS †Prof, Hd of Dept.
Best, B., MD, FRCSEd, FRCSCan †Prof
Lyons, R., BA MD, FRCOG †Assoc Prof
Anderson, A. W., BA MD, FRCOG,
FRCSCan †Assoc Prof
McCord, W. J., MD, FRCSCan, FACS †Assoc Prof
Friesen, W. J., MD, FRCSCan †Asst Prof
Schmidt, O. A., MD, FRCSCan, FACS †Asst Prof
Willows, R. L., BA *Sask.*, MD, FRCSCan †Asst Prof
Bradford, C. R., MD, FRCSCan †Asst Prof
Bleeker, C. K., MD †Lectr
Guyot, H., BA MD †Lectr
Henneberg, C., MD †Lectr
Majury, A. S., MB ChB BAO *Belf.* †Lectr
McCawley, J. C., MD, FRCSCan †Lectr
McInnis, A. C., MEd, FRCSCan †Lectr
Mitchell, J. R., MD, FRCSCan †Lectr
Roulston, T. M., MB ChB BAO *Belf.* †Lectr
Rubin, L., MD †Lectr
3 Teaching Fellows, 5 Demrs †, 1 Tutor †

Ophthalmology

Elvin, N. L., OBE, MD †Prof, Hd of Dept.
Ramsey, R. M., MS(Ophthalm) *Minn.*,
MD †Asst Prof

Rose, J. E., MD †Asst Prof
Guest, W. C., MD †Asst Prof
Magee, D. R., MD †Lectr
Reed, H. N., MB BS *Lond.*, DO *Oxon.*,
FRCS, FRCSCan †Lectr.
3 Demrs

Otolaryngology

Alexander, W., MD †Prof, Hd of Dept
Rubin, J. A., MSc N.Y., MD †Lectr
McGoey, J. E., BA MD †Lectr
2 Demrs.

Pædiatrics

Medovy, H., BA MD, FRCPCan †Prof, Hd of Dept
Chown, H. B., MC, BA *McG.*, MD †Prof
Israels, S., BSc *Sask.*, MD, FRCPCan,
FACP †Assoc Prof
Grant, W. W., BA *Alta.*, MD †Assoc Prof
McLandreas, M., MD †Asst Prof
Briggs, J. N., MD *Lond.*, MRCP †Asst Prof
Boyd, S. A., MD †Asst Prof
De Pape, A. J. D., BA MD, FRCPCan †Asst Prof
Marlatt, Helen, MD †Lectr
Berger, M., BA *Sask.*, MD †Lectr
Grewar, D., MB ChB *St. And.*, MRCP †Lectr.

MacNeil, R. W., BSc MD †Lectr
Zipursky, A., BSc(Med) MD †Lectr
Barsky, P., BSc MD †Lectr
Bowman, W. D., MD †Lectr
Coodin, F. J., MD CM *Qu.* †Lectr
Bowman, J. M., MD †Lectr
Finkel, K. C., MB ChB BAO *Dub.* †Lectr
Haworth, J. C., MB ChB *Birm.*, MRCP †Lectr
Lichida, Irene, BA PhD *Tor.* †Lectr
2 Teaching Fellows, 6 Demrs. †

Pathology

Lederman, J. M., BSc *Sask.*, MD,
FRCPCan †Prof, Hd. of Dept
Williams, T. H., DTM&H *Lond.*, MD
CM †Assoc Prof.
Wallace, A. C., BA MD *W. Ont.* †Assoc Prof.
Ridge, J. M., BSc MD †Assoc Prof.
Penner, D. W., BA *Sask.*, MD †Asst Prof
Hoogstaten, J., PhD *Canb.*, MD †Asst Prof
Burgoyne, F. H., MD, FACP †Asst Prof
Crowson, C. N., PhD *Edin.*, MD CM *McG.*,
MA *Qu.* †Asst Prof.
Hamon, M., MD *Laval*, BA †Lectr
Ross, Georgina, BSc *Sask.*, MD †Lectr.
Hogg, H. M., MD *Tor.* †Lectr
Strawbridge, H. T. G., MD *Edin.*,
MRCPed, FRCPCan †Lectr
van Wyke, M., MD *Ley.* †Lectr
1 Teaching Fellow, 1 Demr., 3 Fellows,
1 Museum Curator

Pharmacology and Therapeutics

Nickerson, M., MD *Utah*, AB *Linfield*,
ScM *Brown*, PhD *Johns H.* †Prof, Hd. of Dept

Lowenthal, J, MSc PhD *Mont* Assoc. Prof.
 Ormerod, M J, MD *Tor* Assoc Prof
 Innes, I R, MD *Aberd.* Assoc. Prof
 Dresel, P E, BSc *Antioch*, PhD *Roch.*

Asst Prof

Frank, G B, BS C C N Y, MSc *Ohio*

State, PhD *McG* Asst. Prof

Cohen, L H, PhD *Tor*, MSc Asst Prof

Yamada, S I, MSc PhD *W Ont* Asst Prof

LaBella, F S, MA *Wesleyan*, PhD *Emory*

Asst. Prof

Stromblad, C R, MD *Lond* Asst Prof

Cooch, Mrs Joan, BS *St Lawrence*, MS

PhD *Corn.* Lectr

Parmer, S S, MSc *Luck*, PhD *Luck &*

McG Lectr

Inoue, F, BM *Imperial*, MD *Tokyo* Lectr.

7 Teaching Fellows, 1 Demr, 1 Sp Lectr

Physiology and Medical Research

Doupe, J, MD, MRCP, FACP

Prof, Hd of Dept

Peny, W F, BSc *McG*, MA MD CM *Qu*

†Assoc Prof

Blanchner, M C, BA MD CM *Qu*

†Assoc. Prof.

Hildes, J A, MD *Tor*, MRCP,

FRCPCan Assoc Prof

Saunders, M G, MSc MB ChB *Manc*

Asst. Prof

Ferguson, Marion H, PhD *Edm*, BSc

Asst Prof

Gaskell, P, MD *W Ont*, PhD *Lond.* Asst Prof

Cadoret, R, AB *Harv*, MD *Yale* Asst Prof.

Cartier, S, BSc(Med) MD MSc Asst. Prof

Hagen, Jean H., BSc *Lond*, DPhil *Oxon*

Asst Prof.

Moorhouse, J A., MD Asst. Prof

Froese, G., MSc PhD *W.Ont* Asst. Prof

Psychiatry

Sisler, G. C, MD, FRCPCan

Prof, Hd of Dept

Adamson, G L, MD, FRCPCan,

MRCPEd †Assoc Prof.

Pincock, T A, MD †Asst Prof

Stephens, G M, MD †Asst Prof.

Matas, I J, MD †Asst Prof

Wright, M. W, MA PhD *Tor*, BA †Asst Prof

Allison, G E, MD, FRCPCan Asst Prof.

Johnson, E, BSc MD †Asst. Prof.

Lambers, W. G., MB ChB *Lw*, MSc Asst. Prof

Lawler, R H, MD Asst Prof.

Tavener, R. H, MD Asst. Prof.

Atkinson, H S, MD †Lectr

Gibson, R, MD *Glas.* †Lectr

Burch, J E, MD †Lectr.

Giassco, W. G., MD †Lectr

Gonsalves, C T, MD CM *McG.* †Lectr

Lindsay, J H, MD *W Ont* †Lectr

Asseltine, J. L, MD *Tor.* †Lectr

Bristow, M. E., MD †Lectr.

Brown, J H, MB ChB *Edm*, DRM *Lond*,

MRCP †Lectr

Hunzinger, W W., MD *Heidel* †Lectr.

Prosen, H, MD MSc Lectr

Schlichter, W, MD *Immsbruck* †Lectr

Thomson, I B, MB ChB *Glas* †Lectr

Ford, K J R, DPM *Manc*, MRCP Lectr.

1 Demr

Radiology

Macpherson, R A, MD CM *Qu*

†Prof, Hd of Dept

Childe, A. E, MD †Assoc Prof

Walton, R J., MB ChB N Z, DMR

DMRT †Assoc. Prof

Hall, Clau W, MD †Asst. Prof

Kiernan, M K., BA MD †Lectr

Bennett, J E, MB ChB *Glas* Lectr.

8 Demrs.

Social and Preventive Medicine

Cadham, R. G, DPH *Tor*, MD

†Asst Prof, Hd of Dept.

Elliott, M R, OBE, DPH *Tor*, MD †Lectr

Lansdown, L. P, DPH *Tor*, MD †Lectr

Malcolmson, H. M, BSc MD †Lectr

Monson, J. B, MD DPH *Tor.* †Lectr

Surgery

Ferguson, C C, MD, FRCSCan, FACS

Prof, Hd of Dept

Corrigan, C E, DSO, BA MD, FRCS,

FRCSCan †Assoc Prof

Burrell, R O, MD ChM, FRCSed,

FRCSCan †Assoc. Prof

Tucker, F R, MChOrth *Lw*, MD,

FRCSed, FRCSCan Assoc Prof

Stewart, C B, MD, FRCSEd,

FRCSCan (Urol) †Assoc Prof.

Clark, C W, MD ChM, FRCSed,

FRCSCan, FACS †Assoc Prof.

Perrin, M. B., MD, FRCSEd,

FRCSCan †Assoc Prof

Huggins, Donald, BSc MD

(Anesth) †Assoc. Prof.

Farr, J T., MD, FRCSEd, FRCSCan

†Asst Prof

Richardson, R W, OBE, MD ChM †Asst Prof

James, E S, MD, FRCS, FRCSCan

†Asst Prof

Rennie, J. W. R., MD, FRCSEd,

FRCSCan, FACS †Asst Prof.

Trueman, K R, MSc *Munn*, BA MD,

FACS †Asst. Prof

Klass, A A, BA MD, FRCSEd,

FRCSCan †Asst Prof

Peikoff, S. S., MD, FRCSEd,

FRCSCan, FACS †Asst. Prof

Rabson, L R, BA MD, FRCSEd,

FRCSCan †Asst Prof.

MacKinnon, W. B, MD ChM,

FRCSCan †Asst Prof

Parkinson, D, MD CM *McG*, MSc *Munn*,

FRCSCan, FACS (Neurosurg) †Asst Prof

Swartz, D, MD, FRCSEd, FRCSCan

†Asst. Prof.

Stephenson, E. S., MD ChM, FRCSed, FRCSCan	†Asst Prof	Pickard, E. W., MD	†Lectr.
Deacon, A. E., MSc Minn, MD	†Asst Prof.	Welply, W. R., MB BS Lond, FRCS	†Lectr.
Bartlett, L. C., MD W Ont, FRCSCan		Berbrayer, P., MD, FRCS	†Lectr.
Asst. Prof., Dir., Postgrad. Studies		McCarten, R. J., DDS Tor (Dent)	†Lectr.
MacDougall, J. T., DSO, BA Alta, MD		Cruickshank, L. F. G., MB ChB Edin	†Lectr.
CM McG., FRCSed, FRCSCan	Asst. Prof	Lehmann, M. J., BSc MD, FRCSCan	†Lectr.
Merkeley, N. P., MD ChM, FRCSCan		Minuck, M., MD	†Lectr.
	Asst Prof.	Whytehead, L. L., BM BCH Oxon., FRCS	†Lectr.
Cohen, M., PhD Minn, MD, FRCSCan		Burns, C. M., MD, FRCSCan	†Lectr.
	Asst Prof.	Duval, F. W., MD, FRCSCan	†Lectr.
Cooke, R. L., BSc Sask., MD, FRCS, FRCSCan	Asst. Prof	Goldstein, P., MD Qu., FRCSed, FRCSCan, FRCS	†Lectr.
Zingg, W., MD Zw., MSc, FRCSCan	Asst Prof	Lunde, J. F., MD CM Qu., FRCSCan	Lectr.
Bruser, D. M., MBE, BA MD ChM, FRCSCan	Asst Prof	Loban, J., MD	Lectr.
Hollenberg, C., MBE, ChM Lrv, MD, FRCS, FRCSCan	Asst Prof	McGarry, P. M. F., MB BCH N.U.I.	Lectr.
Waugh, G., MD, FRCSCan	Asst Prof	McGoey, J. S., MD Tor	Lectr.
MacCaughy, T. J., MB BCH N.U.I.	Asst. Prof	Milner, R., MB ChB Aberd, FRCP	Lectr.
Holland, T. E., BSc MD, FRCSed, FRCSCan	†Lectr.	Molgat, A. L., MD Laval, FRCSCan	Lectr.
McGibbon, K. C., MB Tor	†Lectr.	Ross, G. M., MB ChB St And	Lectr.
Bennett, Marjorie B., MD	†Lectr.	Semelka, G., MB Innsbruck	Lectr.
Fahrni, G. F., DSc, MD, FRCSCan, FACS	†Lectr.	Thorlakson, R. H., MD, FRCSCan	Lectr.
Isaac, J. E., MD, FRCSCan	†Lectr.	Whiteford, J. W., MD	Lectr.
Loadman, B. E., BA MD ChM	†Lectr.	Wolkenstein, C., MB BSc Melb	Lectr.
McBeath, J. H., MB ChB Glas., FRCSed	†Lectr.	Bugelow, D. R., MD MSc Tenn	Lectr.
Taylor, J. R., BA Sask., MD MSc	†Lectr.	Hollenberg, J., MD	Lectr.
		Holm, A. W., MD	Lectr.
		Kagan, J. M., MD Laval, FRCSCan	Lectr.
		Lambie, R. S.	Lectr.
		6 Teaching Fellows, 27 Demrs, 6 Tutors, 2 Res Consultants, 1 Med Illustrator	

ADMINISTRATIVE AND OTHER STAFF

Dir., Sch. of Archt. J. A. Russell, BSc(Arch)
 March MIT Dir., Sch. of Home Econ.
 Lorna M. Davis, MA Dir., Univ. Extension
 and Adult Educn.: A. S. R. Tweedie, MA Dir.,
 Sch. of Music. R. W. Gibson, MusB Dir., Sch.
 of Soc. Work: Helen M. Mann, AM Chic., MA
 McM Dir., Sch. of Art. R. E. Williams, BA
 CarnegieTech Inst., MFA Iowa Dir., Summer
 Sch. R. J. Lockhart, BA Dir., Sch. of Comm.:
 R. F. Harris, BCom MA Tor Dir., Sch. of
 Pharm.: J. R. Murray, MSc Alta., PhD Ohio

State. Dir., Nursing Educn. Margaret Hart,
 MA

Sec., Scholops. and Bursaries: Margerie White
 Manager, Univ. Bookstore. J. A. M. Edwards,
 MA Supt. of Bldgs and Grounds: J. Illing-
 worth Dietitian, Univ. Residence: Anna
 Rydeen, BSc(HEC) Dir. of Men's Residence.
 Mrs. Clara Unwin Dir. of Women's Residence.
 Mrs. M. Vinian McKinnon Phys. Dir.:
 W. F. R. Kennedy, BPHE MA EdB Col.

AFFILIATED COLLEGES represented on the Senate

BRANDON COLLEGE*

Founded 1899

Postal Address: Brandon, Manitoba, Canada

President—J. E. Robbins, PhD Ott., MA LLD.
 Dean of Arts and Science—H. S. Perdue, MA
 McM, PhD Chic.
 Dean of Education—W. W. McCutcheon, BSc
 (Agr) McG., BSc SirG.Wms., BED Acad.,

MSA Tor., EdD Corn., Assoc. Inst. of Educn.,
 Lond
 Director of Music—L. Watson, BA Tor., MA
 N.Y., LTCM
 Bursar and Registrar—D. R. MacKay, BA.

* Associate Member of the Association of Universities of the British Commonwealth

Teaching Staff

ARTS AND SCIENCE Profs.: H V Kidd, PhD Lond, MSc, FCIC (Chem.), H S Perdue, MA McM, PhD Chc (Geol.), Assoc Profs.: E A Birkinshaw, BSc (Maths.), G H MacNeill, BA Acad, MA McG (French), E Perry, BA Lond & Qu, MA Tor (Engl.), R M Simmons, BA BTh BD McM, STM U T S (N Y) (Philos & Religious Studies), W D Smith, MA Tor, BA (Hist.), B Thordarson, MA Muen, BA (Engl.); E J Tyler, MSc PhD Utah, BA (Psychol.), L Watson, BA Tor, MA N Y, LTCM (Music), W Wong, MA Tor, BSc (Phys.) Asst Profs.: W H Entz, PhD Berl (German); E Glénisson, MA Montr (French), R H Hannah, BA (Bot & Zool), G F MacDowell, BA Dal, MA Clark (Econ.), A S de Sousa, DSc Lausanne (Chem.), Peggy A. Sharpe, BA McM, ATCM (Music), Norma E. Walmsley, BCom MA McG, (Pol. Sci.), H R Young, MSc Alta, BSc (Geol & Zool); W L. Zwerman, MA Corn (Sociol.) Lectrs.: Louis A. Harvey, MA Chc, BA (Latin), S Klippenstein, BSc (Phys & Maths), N E Spence, BA (Psychol.)

EDUCATION AND TEACHER TRAINING Prof. W. W. McCutcheon, BSc(Agr) McG., BSc Sir G Wms., BEd Acad, MSA Tor, EdD Corn, Assoc Inst of Educ, Lond Asst Profs.: Betty Gibson, BA BEd (Primary Methods), E Glénisson, MA Montr (French), R H Hannah, BA (Visual Educn.), W Peters, BA BEd (Classroom Management & Soc Studies); Jean E Reid, BA BEd (Engl Methods & Remedial Engl.), B Thordarson, MA Muen, BA (Methods in Maths.), J A Voth, BA MEd (Sci Methods & Educn Admin) Instrs.: Georgina A. Boux,

BSc(PE) McG (Phys Educn.), Helen Bjarnason (Art), Joyce E Cooper (Speech), Phoebe M Glaser, BA MEd (Children's Lit & Hist of Educn.), Isabelle Mills, ARCT Tor (Music)

SCHOOL OF MUSIC Assoc Prof. L. Watson, BA Tor, MA N Y, LTCM (Piano and Theory) Asst Profs.: L. Jones, MusM Yale, ARCT Tor., BA LMM (Piano & Theory), L. Needham (Singing & Theory), Peggy A. Sharpe, BA McM, ATCM (Piano & Theory), Franz Zeidler (Orchestral Instruments) Instrs.: Jean Mann, ATCM (Piano), Isabelle Mills, ARCT Tor (Piano & Theory), Mae Selwood (Violin), Mary E. Smart, ATCM (Piano), Prof. Emer. W. L. Wright, BA MusD Acad

General Information

Founded in 1899 and affiliated to the Univ of Manitoba since 1938, Brandon Coll is a non-denominational, co-educational instn offering courses leading to bachelor's degrees (of the Univ of Manitoba) in arts and sci., to cert in educn and to associateships in music of the Royal Conservatory of Music, Univ of Toronto (ARCT) and of the Univ of Manit (AMM). The coll was under the control of a bd apptd by the Baptist Union of W Canada until 1938 when it was reorganized and incorporated under the laws of the province of Manitoba, the responsibility for the control and admin of its affairs being assumed by a bd of dirs. of Manitoba citizens. From 1930 to 1938 the coll was affiliated to McMaster Univ. Student numbers (1960-61): 360 full-time (arts, sci, educn., teacher trg.), 340 part-time (evening lectures and music).

ST. BONIFACE COLLEGE, St. Boniface (tel Winnipeg CH-7-4819) (RC) Founded 1818 Provides full 4-yr course for BA 'Latin philos' of the univ Rector—Very Rev O. Boily

ST. JOHN'S COLLEGE, Winnipeg (tel Winnipeg WH-2-2566) (Anglican Church of Canada) Founded 1866 Awards degrees of LTh, BD and Hon DD. Provides full 4-yr course for BA of the univ and grad courses for MA of the univ Warden—Rev Canon L. F. Wilmot, BA BD LLD

UNITED COLLEGE, Winnipeg (tel Winnipeg SP-2-0314). (United Ch of Canada) Founded

1871, 1877. Provides full 4-yr course for BA of the univ and grad courses for MA of the univ Also awards its own degrees of BD and MST Principal—W. C. Lockhart, MA PhD DD

ST. PAUL'S COLLEGE, Winnipeg (tel Winnipeg WH-3-2471) (RC) Founded 1926 Provides full 4-yr course for BA of the univ Rector—Very Rev H. Kilian, MA

MANITOBA LAW SCHOOL, Winnipeg (tel Winnipeg WH-6-7378) Founded 1914 Provides full 4-yr course for LLB of the univ and also grad studies for LL.M. of the univ Dean—G. P. R. Tallin, QC, BA Odon, LLB.

GENERAL INFORMATION

The univ was established by act of the provincial legislature in 1877 on the model of the Univ of London, as an examining and degree-conferring body, the instn to be given in the affiliated colls which were already in existence, viz. St. Boniface Coll, St. John's Coll and Manitoba Coll. This list was subsequently extended to

include Manitoba Medical Coll (1882), Wesley Coll (1888), Manitoba Coll of Pharmacy (1902), Manitoba Agric Coll (1907), Manitoba Law Sch (1914), St. Paul's Coll (1931) and Brandon Coll. (1938) In 1900 the univ. was, by legislative enactment, given power to offer instn In 1929, having outgrown its city bldgs, the univ

was removed to a permanent rural site with ample space for expansion. In 1940 a systematic programme of work in rural adult educn. was begun. The unprecedented influx of students at the conclusion of hostilities in 1945 gave a great stimulus to expansion. The fac. of grad. studies & res. was establd., a chair of Icelandic, and depts. of slav. studies, univ. extension & adult educn., mathl. phys., phys. educn., athletics and recreation, psychiatry, geog., microbiol. and agric. econ. In 1950 the univ. sch. of art was opened and in 1953 the new library. A chair of agron. was establd. in 1954. In 1957 a fac. of dent was establd. and a dept. of pharmacol. & therapeutics formed in fac. of med.

The univ. has the sole power in the province of conferring degrees in arts, sci., law, med., dent., engin., pharmacy, comm., agric., home econ., educn., pedagogy, archit., interior design, fine arts and soc. work. It received in 1898 from the dominion govt. a land grant of 150,000 acres.

LOCATION. The bldgs. occupied by the facs. of med., dent. and law are in the city of Winnipeg. The site of the facs. of arts & sci., agric. & home econ., engin. & archit., educn., the grad. sch. of soc. work, and the grad. sch. of nursing, is in the municipality of Port Garry, 7 mls. from the centre of Winnipeg. The univ. has 50 bldgs. on this site, incl. the residence which has accommodated 600 students. Also on this site are the dominion rust res. lab., the dominion lab. of plant pathol., the dominion lab. of entomol. and the provincial experimental fur farm.

CONSTITUTION. General management of the univ. is vested in a bd. of 14 governors, 9 of whom are apptd. by the lt.-governor in council, 3 elected by grads. from among their own number, the remaining 2 being the chancellor and the pres. *ex officio*. The bd. has corporate powers and in all matters relating to the management of the univ., incl. academic affairs, it enjoys plenary powers. The prime academic body is the senate, whose membership consists of the pres., as chairman, chancellor, dep. minister of educn., chairman of the advisory bd. of the dept. of educn., deans of facs., reps. of profs. in each fac., dirs. of schs., and reps. of affiliated colls., the Coll. of Physicians and Surgeons of Manit., and the alumni assocn. Under its control are entrance requirements, courses of study, methods of instructn., appointment of examiners, approval of degrees, and related matters.

INCOME (1959-60). Total income, \$6,911,789 (govt. grants, 62 per cent., fees, 21.2 per cent., services, 14.2 per cent., endowments & other sources, 2.6 per cent.)

FACULTIES (for deans, see p. 229) *Arts & sci.* fac. providing instructn. in all subjects of undergrad. courses in arts (except 6 options and the Latin philos. course for French-speaking students of St Boniface Coll.), sci., pharmacy and comm.; *med., engin., archit. & interior design; agric. & home econ.; educn., dent.* Other subjects of arts course

are taught in the affiliated colls. Law is taught in the Manitoba law sch., which is under the direction of trustees jointly apptd. by the univ. and the Law Soc. of Manitoba. Public health nursing and teaching and supervision in schs. of nursing are taught to grad. nurses in the grad. sch. of nursing, directed by the univ. and financed by the provincial dept. of health and public welfare. Academic and clin. trg. of social workers is carried on in the grad. sch. of soc. work. A course leading to the degree of bachelor of fine arts is taught co-operatively by the fac. of arts & sci., the sch. of art, the sch. of archit. and the sch. of home econ.

UNIV. LIBRARY. 220,000 vols., 1800 periodicals read. There are also 30,410 mounted plates and photographs and 10,000 slides in the sch. of archit. The med. coll. has a library of over 27,000 vols., and receives 450 periodicals.

LABORATORIES. Anat., bacteriol., bot., chem., engin. (material testing—200,000 lb., cement, electr.), geol. & mineral, pathol., phys., physiol., zool.

MUSEUMS. Anat., bot., embryol., geol., pathol.

HOSPITALS available for clinics: 6 general (2500 beds) and several special, incl. TB, infectious dis. and psychopathic hospitals. Hosps. offering clin. instructn. are Winnipeg General H., St Boniface H., Winnipeg Children's H., Grace H., Deer Lodge Military H. and the City Municipal Hs.

FARM (1000 acres)

ADMISSION. See Appendix III

FIRST DEGREES. 4 yrs. from jr. matric—BA gen., BSc gen., BCom gen., BScEng (civil, electr., mech. or geol. engin., engin. phys.), BSc(HEC), BFA, BID, 5 yrs. from jr. matric—BA hons., BSc hons., BCom hons., BPed, BArch, BSA, 4 yrs. following 1 yr. in arts and sci.—BSc(Pharm); 4 yrs. following 2 yrs. in arts and sci.—LLB, 4 yrs. following 2 pre-med. yrs.—DMD, 4 yrs. following 3 pre-med. yrs.—MD

Subjects for the BA gen. and BSc gen. are placed in 3 groups (humanities, soc. scis., phys. scis.) from each of which selection is made in accordance with definite regns.; e.g. for the BA, compulsory subjs. are Engl. (2 yrs.), a foreign lang. (2 yrs.), maths. (1 yr.)

BA hons. (in 1 or 2 subjs.) may be taken in classics, econ., Engl., French, geog., German, hist., Icelandic, philos., pol. sci. & internatnl. relns., psychol., slav. studies. BSc hons. may be taken in actuarial maths. & stats., bot., chem., geol. & mineral, maths., mathl. phys., microbiol., phys., zool. In the BSA degree course certain specialist options are available, and hons. may be taken in plant sci.

In the BScEng course a thesis is required in the 4th yr. A summer thesis may be presented for credit by students entering the 2nd, 3rd or 4th yr.

While taking the LLB course a student may simultaneously obtain the Law Society of Manitoba's qualif. for practice. Students who have

graduated BArch may qualify for licence to practise by 2 yrs.' service in an architect's office

No degree can at present be taken by pt -time or evg courses

HIGHER DEGREES 1 or 2 yrs' postgrad. course—MA, MSc, MArch, MArch(CP), LL.M., BSocW, MSocW, 2 yrs' postgrad course—BEd, 1 yr after BEd—MED, res courses governed by ap regns lead to BSc(Med), MSc (Med) and PhD degrees

For the MSc, and usually for the MA, a thesis is required as well as exam. Candidates who hold the BA gen. or BSc gen degree of the univ (or an equivalent degree) study 2 further yrs for the master's degree and are required in their 1st yr to take certain honours courses. The MA may be taken in classics, econ, Engl., French, geog., German, hist., Icelandic, oriental langs. & lit, philos., pol sci & internatnl relns, psychol., slavc studies, sociol. The MSc may be taken in agric, home econ, civil, elect & mech engin, as well as in certain sci subs of the univ (incl maths)

HONORARY DEGREES LL.D, DLitt, DSc

The univ does not award EXTERNAL DEGREES, but offers sch teachers the opportunity of gaining degrees by correspondence courses (limited to the 2nd yr in arts), extension courses in arts, sci and econ, and the annual 6-wk summer sch. See 'Univ Extension', 'Extra-Mural Work' and 'Vacation Courses', below

DIPLOMAS 5 mos—dairying; 2 yrs—agric, 4 yrs resident internships—anaesthesiol, psychiatry, radiol, surg

CERTIFICATES. 1 yr—nursing, educn., soc work

OTHER QUALIFICATIONS The univ conducts exams for admission to the practice of dent and membership of the Manitoba Dental Assocn, to the practice of accty. and membership of the Inst of Chartered Accountants of Manitoba, to the practice of archit and membership of the Manitoba Assocn of Architects and in the basic scis for candidates seeking licensure with the Coll of Physicians and Surgeons of Manitoba

Music The univ. conducts exams. in all grades of vocal and instrumental music (piano, organ, violin, viola, violoncello) and musical theory and hist. leading to the dipl of Assoc. in Music, Manit (AMM). Holders of the AMM or equivalent standing may obtain the licentiate-ship dipl on passing an advanced practical exam. Music may be offered as an elective for matric. if carried for 2 or 3 yrs in high sch. and at least the prescribed min grade is attained. It is also an elective in arts and in the 2nd and 4th yrs in home econ. Practical instrumtn must be obtained from private teachers

Exams are based on a syllabus of the Western Bd of Music, composed of reps. of the univs and depts of educn. of Manitoba, Saskatchewan and Alberta.

FEES Annual tuition fees Undergrad : agric, arts, educn, fine arts, home econ, interior design, nursing educn., comm, soc work, \$300, archit, engin, \$400, dent, \$425, law, \$225; med., \$500, pharm, \$350 Grad studies and res. pre-MA, pre-MSc(HonMEd), pre-MSc, MSW, \$300, LL.M., \$160, other master's degrees, \$250, PhD, \$250. Dipl courses. agric, art, \$200, physiotherapy & occupnl therapy, \$325

ACADEMIC YEAR. Sept 1st-3rd wk of May. Summer session : July 3rd-Aug 19th

UNIVERSITY EXTENSION. Institute evg courses (cultural), winter evg. business courses in accty, comml law, Engl, pol. econ, etc, given partly by members of regular univ. staff, radio popular lectures and broadcasts of music chosen from music syllabus, short courses in farm equipment repairing, bee-keeping, home-making, dairying, poultry, home vegetables and fruit growing, home grounds beautification and flower growing, fur farming, field crops, nutrition and diseases of farm animals; Feb series of popular lectures; programme of adult educn. in fine arts in rural communities of the province; Manitoba Labour Inst classes, extension service in agric and home econ. through correspondence, lectures, judging, bulletins, etc., dept of music extension, under a dir. of music, evg courses for credit in certain arts subjects of the 2nd yr, in Winnipeg and at selected rural centres (see below)

EXTRA-MURAL WORK Correspondence courses carrying degree credit are offered in certain subs of the 2nd yr in arts. Only 1 full course or 2 half courses may be taken in any 1 regular session

VACATION COURSES Summer sch (6 wks) in July and Aug. Courses for teacher trg and in grade XII and arts and sci subs

POSTGRADUATE AWARDS open to grads of other univs Canadian Industries Ltd res fellowship of \$2000 is offered annually to any British subject who is a grad of a recognized univ. for res in agric chemicals at the Univ of Manitoba 1 Cominco fellowship of \$1500 is offered annually for res in mining, metall or chem. industry by a grad of a recog univ. Dafco fellowship of \$2500 is offered annually to a candidate doing grad work in internatnl relns

RESIDENCE. Hostels at all affiliated arts colls. and at Fort Garry site Fees, \$55-\$60 p. m.

ALUMNI ASSOCIATION Founded in 1921 to deal as a body with all matters affecting the interests of alumni. Executive dir.—J M. Gordon, BA

MILITARY UNITS Trg is offered leading to commissions in either active or reserve forces of the navy and the army by the Univ. of Manitoba naval trg division (UNT.D) and the Univ of Manitoba contingent Canadian officers' trg. corps (C.O.T.C) respectively; and to commissions in regular or reserve force by the Univ of Manitoba squadron, royal Canadian air force.

HEALTH SERVICE. Students are required to undergo a health exam, at beginning of each session

STUDENT ATHLETIC FACILITIES 2 large well-equipped gymnasiums with seating for 1800 spectators; 2 recreation halls, ice rink, curling rink, rifle range, and playing fields on campus. Off-campus accomm. provided for track, tennis, golf, swimming, bowling

PUBLICATIONS *General Calendar* (May), free, *Manitoban* (students' paper), bi-weekly (free to Manitoba students, others, \$1 p a.), *Annual Report* (free); *Creative Campus* (student and staff, publ'd annually, 25 c); *One University A History of the University of Manitoba, 1827-1952* W. L. Morton. (McClelland, 1957)

UNIVERSITY PRESS. Founded in 1945; operates under guidance of the univ book dept. Manager, J. A. M. Edwards, MA.

THE YEAR 1960

RETIREMENTS W M Musgrove (psychiatry)
RESIGNATIONS J B. Barty (geog); N B Divinsky (maths); D. Bicholz (arts); Miss M Hendrickson (phys educn); C M Lantz (bus. admin & finance); F G Maccabee (mech engin); T. R. Sansom (pol sci.); Hazel Ward (nursing educn.)

DEATHS Elizabeth Dafee (univ. librarian), dean emeritus A. T. Mathers (med), prof emeritus J. Gunn (surg); prof emeritus R K McClung (phys); Celine A. Ballu (French); Prof T M B Payne (microbiol)

HONORARY DEGREES LLD—Dowager Marchioness of Reading, Margaret G Reid, prof of econ, Chic; E. R. Arthur, prof of archit, des, Tor; Hon. B. Claxton, chairman, Canada Council, M. S. Osborne, prof of archit, Penn. State; H. Lyons, dean, sch of dentistry, Virginia; H. J. Merkeley, dent man., K E Bulyea, former dir, sch of dentistry, Alta DLitt—S B Woodhouse, prof of Engl., Tor. DSc—D L. Thomson, dean of grad. studies, McG

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	4511	330
Women	1721	138
Total	6232	468

Distribution by Faculties, etc Agric, 206, archit, 236, art dipl., 69, arts & sci., 3830, comm, 145; dent, 65, educn, 91, engin, 667, fine arts, 56, home econ, 211, interior des, 127, law, 100, med., 185, nursing educn, 38, pharm, 103; soc work, 71, grad studies, 481.

Included in the figures above are —

Postgraduate students, 481

New admissions, 2175

Students from other countries, 430. (Countries from which largest numbers came: W Indies Fed, 222, Hong Kong, 43, India, 16)

DEGREES AWARDED (1959-60) PhD, 5; MA, 9, MSc, 50; MArch, 1; MEd, 9, MSc(CP), 2, BA (gen), 286, BA(LatPhil), 17, BSc (gen), 113; BScPharm, 16, BComm (gen), 10; BA (hons), 15, BSc (hons), 22, BComm (hons), 8; LLB, 35, MD, 54, BScMed, 9, BSc(HEc), 49, BSA, 12; BScEng (civil), 43; BScEng (electr), 34, BScEng (eng phys), 5, BScEng (mech), 39, BScEng (geol), 3; BArch, 24, BEd, 142, BPæd, 31, BPæd (hons), 3; BID, 9, BFA, 11; BSW, 30, MSW, 15

DIPLOMAS AWARDED (1959-60). Agric, 18, anæsthesiol., 2, art, 3, music, 14, surg., 5.

CERTIFICATES AWARDED (1959-60) Nursing educn, 22, soc work, 2; educn, 95.

MEMORIAL UNIVERSITY OF NEWFOUNDLAND*

Founded 1949, previously established as Memorial University College, 1925

Postal Address: St. John's, Newfoundland, Canada

Telephone: St. John's 9-2041

VISITOR—His Honour The Lieutenant-Governor, The Hon C MACPHERSON, OBE

CHANCELLOR—R. H. THOMSON

VICE-CHANCELLOR AND PRESIDENT—R. GUSIUE, CBE, QC, LLB Hon. LLD *Dal*, Hon. DCnL
K.C.N.S.

CHAIRMAN OF THE BOARD OF REGENTS—E. J. PHELAN, QC

DEAN EMERITUS—A. C. HUNTER, BA *Lond*, MA *Oxon*, DU*Paris*

DEANS—APPLIED SCIENCE—S. J. CAREW, BSc *Dal*, BE(Mining) N.S.T.C. (Engin.), ARTS AND SCIENCE
—M. O. MORGAN, MA *Dal* & *Oxon* (Pol Sci), EDUCATION—G. A. HICKMAN, BA *Mt All.*,
MA *Acad.*, EdD *Col.*

REGISTRAR—H. T. RENOUF, JP, FCIS

LIBRARIAN—ADA GREEN, BA *Mt All.*, BLS *McG.*

BURSAR—D. C. BARTER

TEACHING STAFF

[†=Part-Time]

Art		Classics	
Shepherd, R	†Lectr.	Ashley, J. B., BA <i>Dal</i> , MA <i>Oxon</i> .	Prof.
		Reardon, B. P., MA <i>Glas</i>	Asst. Prof.
		Wall, George M., BA <i>Mt All.</i> , MA <i>Chc</i>	Asst. Prof.
		Cochrane, Mrs. Mary, BA <i>Durh.</i> (Latin)	†Lectr.
Biology		Commerce	
Andrews, C. W., BSc <i>Mt All.</i> , MA <i>W. Ont.</i> , PhD <i>Tor</i>	Prof.	Gardiner, P. J., MA <i>Oxon</i>	Assoc. Prof.
Lear, E., BSc <i>Acad.</i>	Assoc. Prof.	Soper, P. L., LLB <i>Dal</i> .	†Lectr.
Aldrich, F. A., AB <i>Drew</i> , MSc		Grieve, J. D.	Lectr.
PhD <i>Rutgers</i>	Assoc. Prof.	Renouf, H. T., JP, FCIS	Lectr.
Bartlett, G. W., BA <i>Mt All.</i> , BSc <i>Lond</i> , DPhil <i>Oxon</i> .	Assoc. Prof.	Economics	
Alt, M. A., MSc <i>Madr.</i> , PhD <i>Br. Col.</i>	Asst. Prof.	Copes, P., MA <i>Br. Col.</i> , PhD <i>Lond</i>	Assoc. Prof.
Mortimer, Joan E., BSc <i>W. Ont.</i>	Asst. Prof.	Church, G. C., MA <i>Sask.</i>	Asst. Prof.
Wright, D. L., MA PhD <i>Calif.</i>	Asst. Prof.	Alvi, S., MA <i>Karachi</i> , PhD <i>Colorado</i>	Asst. Prof.
Templeman, L. W., OBE, BSc <i>Dal</i> , MA PhD <i>Tor</i> , FRSCan	†Res. Prof.	Education	
Feltham, L. A. W., BSc <i>Dal</i> , MA <i>Tor</i> .	Visiting Lectr.	Hickman, G. A., BA <i>Mt All.</i> , MA <i>Acad.</i> , EdD <i>Col.</i>	Prof.
Chemistry		Rowe, W. G., BA <i>Dal</i> , MA <i>Col.</i>	Assoc. Prof.
Cooper, D. L., BSc K.C.N.S., MSc <i>Dal</i> , PhD <i>McG</i>	Prof.	Ivany, C., BA <i>Acad.</i> , BEd <i>Tor</i>	Assoc. Prof.
Anderson, H. J., MSc <i>Manit.</i> , PhD <i>Northwestern</i>	Assoc. Prof.	Crocker, O. K., BA <i>Acad.</i> , EdM <i>Harv</i>	Assoc. Prof.
Lynch, B. M., MSc PhD <i>Melb.</i>	Asst. Prof.	Evernden, W. L., BA BEd <i>Sask.</i> , MSc	Assoc. Prof.
Williams, R. K., BSc <i>Edin</i> , PhD <i>Lsv.</i>	Asst. Prof.	Edd <i>Tennessee</i>	Assoc. Prof.
Jones, I. M., BSc <i>McG.</i>	Lectr.		
Jones, Lois, MSc <i>Ohio State</i>	Lectr.		
Shilton, R., MSc	Sp. Lectr.		

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Goodyear, C J, BSc *McG*, MSc *Harv*

Gushue, W. J., EdD *Boston*, BA(Ed) Assoc Prof.
 Ivimey, R., BSc *Acad*, BPed *Tor* Asst Prof.
 Janes, Ethel, BA(Ed) Asst Prof.
 Johnson, E., BA *Leeds*, BEd *Q'd* Asst Prof.
 Layman, Grace, BA *Wilson (Pa)*, MA *Col* Asst Prof.
 Roberts, A H, BA *Acad*, EdM *Harv* Asst Prof.
 Fizzard, G, BA(Ed) BA Asst Prof.
 Lectr.

• **Engineering**
 Carew, S. J., BSc *Dal*, BE(Mining) *N.S.T.C.* Prof.
 Facey, J M C., BSc(Eng) *Lond.* Assoc Prof.
 Nemec, A. O., BSE *Mich* Asst Prof.
 Dyer, H., BE(Mech) *N.S.T.C.* Asst. Prof.

English
 Seary, E R., MA PhD *Sheff.* Prof.
 Pitt, D. G., BA *Mt All*, MA *Tor.* Assoc. Prof.
 Story, G M., BA *McG*, DPhil *Oxon* Assoc Prof.
 Macdonald, A A., MA *Aberd*, BLitt *Oxon*, Assoc. Prof.
 PhD *Manic* Assoc. Prof.
 O'Reilly, Alison, MA *Tor*, PhD *Lond* Asst Prof.
 West, P. N., BA *Bryn*, MA *Col* & *Oxon*. Asst Prof.
 Kirwin, W., AB *Bowdon*, MA *Chic* Asst Prof.
 Frecker, Mrs. Helena, MA *Tor* Asst Prof.
 †Lectr.
 †Lectr.
 †Lectr.

Forestry
 Wilton, W C., BScFor *New Br.* †Lectr.
 Green, J., BSc *N Y StateU.*, MSc *Syr.*, Lectr.
 PhD *Corn.*

French, see Mod Langs

Geography
 Summers, W. F., BSc *Dal.*, MSc *PhD McG.* Assoc. Prof.

Geology
 Brueckner, W. D., PhD *Basle* Prof.
 Clifford, P., BSc *S'ton*, PhD *Lond* Asst Prof.
 Hughes, R. D., MA *Br Col.*, PhD *Oklahoma* Asst. Prof.
 Papezik, V. S., MSc *Br.Col.*, Asst Prof.
 PhD *Montr* Lectr.
 Peters, H. R., MSc *Dal*

History
 Rothney, G. O., BA *Bushop's*, MA PhD *Lond.* Prof.
 Hagar, F. A., MA *Harv.*, MLitt *Camb*, Asst Prof.
 PhD *Calif.* Asst Prof.
 Panting, G. E., MA *Manit.* Asst. Prof.
 Dobell, W M, BA *McG*, MA *Oxon.* Asst Prof.
 Schwarz, G M., BA *Wash.*, MA *Col* Asst. Prof.
 Whiteley, W. H., BA *Br.Col.*, MA *Qu* Archivist-Historian

Mathematics

Blundon, W J., BA *Lond.*, MA *Col* Prof.
 Carragher, J P., BA *BAI Dub.* Asst. Prof.
 Fekete, A. E., Dip *Bud*, MSc *Ott* Asst Prof.
 McAndrew, Mrs. Dorothy, MA *Lond* Asst Prof.
 Matthews, Mrs. R., MSc *Lond* Asst Prof.
 Burry, J H, BA(Ed) Lectr.

Modern Languages

Stoker, J. T., MA *Leeds*, DU *Paris* Prof.
 Jackson, H. H., BA *Lond.*, LLD *Vienne* Assoc Prof.
 Wilshire, A D., BA *Lond.* Assoc Prof.
 Hewson, J., BA *Lond*, MA *Laval* Asst. Prof.
 Smith, D., BA *Leeds* Asst. Prof.
 Hamard, Jane, BSc *Algiers* Lectr.
 Muzychka, S., MA *Madrid* Lectr.
 Kingstone, B D., BA *Oxon* (French) Lectr.

Music

Rumboldt, I †Instr

Philosophy

Brown, N. J P, MA BPhil *Oxon.* Assoc Prof

Physical Education

Eaton, J. D., BPHE *Tor*, MA *Col.* Assoc. Prof.
 Gerstman, Thelma, BSc(PE) *McG* Asst. Prof.
 Foster, M J, BA(Ed) Asst Prof.
 Szvetko, D., BA *W Ont.* Lectr.

Physics

Breckon, S W, BSc *Qu.*, PhD *McG.* Prof.
 Noel, T C., MSc *Dal.* Assoc. Prof.
 Cho, C W., BSc *Seoul*, MA *PhD Tor* Assoc Prof.
 Hunt, J. L., BA *Qu*, MA *PhD Tor.* Asst Prof.
 Rendell, D. H., MSc *Dal* Asst Prof.

Political Science

Morgan, M O, MA *Dal.* & *Oxon.* Prof.

Psychology

Sullivan, A, BA *Oxon.*, MA *Dal.*, BA(Ed) Asst. Prof.

Sociology

Whitaker, I. R., MA *Camb.*, DrPhil *Oslo*, Assoc. Prof.
 FRAI
 Krohn, R G, BA *St Olaf*, MA *Minn.* Asst. Prof.

Spanish, see Mod Langs.

EXTENSION (EXTRA-MURAL STUDIES)

Colman, S. J., MA *Oxon.* Dir.
 Baird, Edna, BA *Dal*, BHS *McG.* Assoc. Prof.
 Graffunder, C P, AB *Wash.*, MA *Col* Extension Rep.
 MacEachern, D J., BComm *St.F.X.* Extension Rep.
 Piatt, C., BFA *Mt.All.* (Painting) Extension Rep.

ADMINISTRATIVE AND OTHER STAFF

Asst to President Helen F Carew Asst to Registrar Dorothy E Pearson, BA *Out* Asst. to Bursar F X Doyle, BCom
Library Classifier and Cataloguer Margaret

Williams, BLS *Tr*, BA Periodicals Librarian
Judith S Butler, BA BLS *Tr* Reference Librarian
Olauq Synnevag

AFFILIATED INSTITUTIONS

QUEEN'S COLLEGE, St John's, Newfoundland
Provides theol courses for which credit given towards univ BA Principal—Rev G H Eisle, MA *Dub*

ST. BRIDE'S COLLEGE, Litledale, St John's, Newfoundland Principal—Rev Sister Mary Basil, BA *Mt St Vin*, MA C U A.

GENERAL INFORMATION

The Memorial Univ. of Newfoundland was established by an act of the provincial legislature of Newfoundland in 1949

The Memorial Univ Coll. had been established in 1925 as a war memorial and as an instn. to provide higher educn. for the young people of Newfoundland and Labrador During the first 10 yrs the Carnegie Corporation of New York provided annual grants towards general expenses. Thereafter the coll was supported mainly from public funds In 1934 a teacher trg dept was established to provide a yr of professional trg for prospective teachers In 1946 a new plan for the trg of teachers was introduced, whereby students in educn combined courses of professional trg with courses in arts and scis With the establish of the univ, teachers may now take a full 4-yr course leading to the degree of bachelor of arts (educn)

CONSTITUTION The univ consists of the chancellor, convocation, bd of regents, senate, fac. councils and the facs The management, admin. and control of the property, revenue, business and affairs of the univ are vested in the bd of regents consisting of the chancellor, 2 members elected by convocation and 12 apptd by the lieut-governor in council Academic matters are in general charge of the senate, composed of the chancellor, the pres (who is chairman), the deputy minister of educn, hds of the facs. of the univ, 1 rep apptd by each coll or instn. affiliated with the univ, and not more than 6 apptd or elected under authority of the bd. of regents Convocation is composed of the chancellor, pres, senate, bd of regents, all grads of the Memorial Univ Coll, all persons holding academic appts. within the univ whose names are added to the roll of convocation by the registrar from time to time upon instructions from the pres., and all grads of the univ The functions of convocation are chiefly elective but it may also consider all questions affecting the well-being and prosperity of the univ, and make representations from time to time on such questions to the senate.

INCOME (1958-59). Total income, \$915,678 (federal and provincial govts, 80.34 per cent, students' fees, 12.48 per cent, endowment, 1.67 per cent, sponsored or assisted res, 43 per cent, misc., 5.08 per cent)

FACULTIES AND DEANS See p 243

UNIVERSITY PRECINCT Until the summer of 1961 the univ occupied bldgs in a commanding position on the old Parade Ground in St John's, looking out towards the Southside Hills and the Narrows Its new bldgs (comprising arts & admin bldg, sci & engin bldg, library and gym and student centre) are situated on an estate of about 100 acres just within the St John's city limits Plans for further develp include construction of univ residences, dining hall, educn and appl sci bldgs, convocation hall and extn to library It is hoped to complete these by 1970

LIBRARY 52,943 vols; 735 serial publications and periodicals subscribed to, Carnegie alt reference set, 2000 prints, Carnegie music set, 700 gramophone records Full depository library for Canadian govt publications

LABORATORIES Biol., chem, engin, geol, phys., speech

ADMISSION See Appendix II

FIRST DEGREES 4 yrs (from jr matric)—BA, BA (hons) (at present, hons degrees given in, as major subs., classics, econ, Engl, hist, maths, mod. langs.), BA(Ed), BSc, BSc (hons) (at present, hons degrees given in, as major subs., biol., chem, phys) 5 yrs (from jr matric)—BCom, BCom hons, conjoint degrees of BEd & BA or BEd & BSc

HIGHER DEGREES 2 yrs from bachelor's degree—MA, MSc At present, instn for master's degrees given in depts of biol, chem, Engl., geol., hist, phys

The univ does not award EXTERNAL DEGREES

DIPLOMAS 3 yrs (from jr matric)—engin, pre-agric., pre-med, pre-dent, 2 yrs (from jr

CANADA

matric)—for Students who complete dipl courses in engin, med or for may proceed to other univs to complete a degree course 1 yr.—grad dipl in educn for holders of BA or BSc

CERTIFICATE 2 yrs (from jr matric)—phys educn.

FEES For full couise (degree, dipl or cert), \$170-\$190 p.a

ACADEMIC YEAR Two semesters: Sept-Jan., Jan-May

EXTENSION (*see also* "Teaching Staff", *above*). A dept of extension (extra-mural studies) has recently been establd It will provide extension courses, residential courses, and assist in community development

SUMMER SESSION Credit towards BA(Ed) given in 6-wk summer session held in July and

Aug, 2nd & 3rd yr courses offered in academic subjs and professl subjs for teachers

MILITARY TRAINING. Univ. naval trg. div; Canadian officers trg corps, royal Canadian air force (univ reserve trg. plan)

STUDENT HEALTH Annual X-ray for all students, 2 hours of phys educn per wk for 1st yr students

STUDENTS' UNION Non-academic student affairs controlled by council of union, which promotes interests and general welfare of students, finances all student activities, and acts as liaison between student body and univ admin

PUBLICATIONS *Calendar* (annual), students *Cap and Gown* (yearbook), *The Muse* (fortnightly newspaper)

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	820	76
Women	414	90
Total	1234	166

Distribution by Faculties, etc. *Arts & sci*, 302, *educn.*, 672; *engin.*, 168; *for*, 8, *grads*, 30, *partials*, 163, *pre-med*, 60

Included in the figures above are —

Postgraduate students, 30.

New admissions, 604

Students from other countries, 3

DEGREES AWARDED (1959-60) BA hons, 5, BA, 18, BSc hons, 5, BSc, 20, BCom, 2, BA(Ed), 58, MA, 5, MSc, 1

DIPLOMAS AWARDED (1959-60) Educn, 9, engin, 11, pre-for, 1, pre-med, 9

CERTIFICATES AWARDED (1959-60) Phys educn, 7

UNIVERSITY OF MONTREAL*

Founded 1876

Postal Address . P O Box 6128 Montreal 3, Canada
 Cables and Telegrams University of Montreal, Canada
 Telephone . Montreal, RE 3-9951

CHANCELLOR—H Em PAUL-ÉMILE CARDINAL LÉGER, LTh DCL

RECTOR—Rt Rev Mgr I LUSSIER, Hon LLD Bishop's, Alta, McG, Br Col, Tor. & New Br, LTh LPh Paris

VICE-RECTOR—L PICHÉ, LScChim PhD, FCIC

SECRETARY GENERAL—

FACULTIES AND DEANS—ARIS—Rev G PERRAS, DENTISTRY—P GIBOTTRION, DDS, FADC (Orthodontics); HYGIENE—A FRAPPIER, MD LSc, FRSCan, LAW—M CURON, QC, LLD (Introduction & Philos of Law), LETTERS—, MEDICINE—W BONIN, MD (Histol & Embryol), MUSIC—Rev C MORIN, DTh LES Rome, PHARMACY—R LAROCHE, BPhm LPhm, PHILOSOPHY—T R P L LACHANCE, SThM Le Saulchoir, DPh, PURE SCIENCE—E PAOL, MBE, PhD Corn, BScA, FRSCan, SOCIAL SCIENCES, ECONOMICS AND POLITICAL SCIENCE—P GARIGUE, BSc(Econ) PhD Lond (Soc & Pol Sci), THEOLOGY—Rev F PARADIS, DTh

TREASURER—L. CASABON

DIRECTOR OF EXTENSION DEPARTMENT—L. LORIE, DScPhys Paris, Hon DSc Ott & Caen, LScChim, FRSCan

DIRECTOR OF PUBLIC RELATIONS—A BACHAND, MS Col, LSCom LIL

LIBRARIAN—J R LEDUC, BLS McG

TEACHING STAFF*

Anatomy (normal)

Blais, M, MD	Prof, Dir of Dept
Gagnon, R, MD PhD	Assoc Prof
Gagnon, P, MD	Asst Prof
Venne, L, MD	Asst Prof

Anatomy (pathological)

Riopelle, J.-L, MD	Prof, Dir of Dept
Sunaid, L. C, MD, FRSCan	Prof
Bednikoff, G, MD	Asst Prof
Gagnon, J. A, MD	Asst Prof
Gateau, R, MD	Asst Prof
Jasmin, G, MD PhD	Asst Prof
Lauczi, S, MD	Asst Prof
Martin, P, MD	Asst Prof
Thériault, J.-P, MD	Asst Prof

Ancient Languages and Literatures

de Groot, J, D Litt Utrecht	Prof, Dir
Lortie, Abbé P, DUParis, MA	Asst Prof

Applied Science, see Affiliated Instns, below

Art, History of

Randall, L V	Asst. Prof.
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Audiology, see Sch of Rehabilitation (p 257)

Biology

Pagé, E, MBE, PhD Corn, BScA, FRSCan	Prof, Dir of Dept
Demeis, J.-M, DSc Laval, LScA	Assoc Prof
Pinot, P, JPhL LScZool Louvain, PhD DSc Lond.	Assoc Prof
Isler, H G, IngChim DSc Geneva	Assoc Prof
Robert, Rev A, LScNat LPéd DSc	Assoc Prof
Couillard, P., BSc Laval, PhD Penn.	Asst Prof
Mosimann, J E, PhD Mich	Asst Prof
Legendre, V., LScChim LScNat MSc	Lectr

Botany

Dansereau, P., DSc Geneva, Hon. DSc New Br, Hon. LLD Sask, BScA, FRSCan	Prof.
Brunel, J, LScNat	Prof
Gauthier, R., MSc Corn, LScNat DSc	Prof
Rouleau, E, LScNat MSc PhD	Prof
Beaudry, J.-R, MSc McG, PhD Wis, LScA	Assoc Prof
Cailloux, M, LSc	Assoc Prof

Canadian Literature

LeGrand, A, MA PhD	Prof
--------------------	------

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Chemistry, see also Affiliated Instns., below
 Favre, H., DSc/Tech IngChim
 DuplEPF *Zür*, FCIC Prof., Dir of Dept
 Lemay, L., BA MSc Prof.
 Lortie, L., DScPhys *Paris*, Hon. DSc *Ott.* &
 Caen, LScChim, FRSCan Prof.
 Rinfret, M., LScPhys, FCIC Prof.
 Sandorfy, C., DSc *Paris*, LSc *Szeged*,
 PhD, FCIC Prof.
 Piché, L., LScChim PhD, FCIC
 Prof., Vice-Dean, Dir of Studies
 Barré, R., DScPhys *Paris*, BPharm LScChim
 Prof
 Cartier, P., LScChim Assoc. Prof.
 Heumann, W., DSc *Prague* Assoc. Prof.
 Rivest, R., BScChim DSc Assoc. Prof.
 Bourgon, M., LScChim PhD Assoc. Prof.
 Daoust, H., BScChim PhD Assoc. Prof.
 Berse, C., DSc *Zür*. Asst. Prof.
 Patterson, D., MSc *McG*, BScMath
 BScPhys Asst. Prof.
 Sicotte, Y., BA BScChim PhD Asst. Prof.
 Richer, J. C., BScChim PhD Asst. Prof.
 Goudreau, R., LScChim Lectr

Classics

de Groot, J., DLett *Utrecht*
 Prof., Dir. of Section

Commerce, see Affiliated Instns., below

Dentistry, see below

Economics, see Soc and Pol Sci

Engineering, see Affiliated Instns., below

English Language and Literature

Greenwood, T., MA *Lond.*, LèL *Paris*,
 DSc *Ott.*, DLett Prof., Dir of Section
 Birch, T.-A., MA *Leeds*, DPéd Asst. Prof.
 De Groot, H., MA Asst. Prof.
 Hanna, B. T., MA Asst. Prof.
 MacPeak, Hélène, BA Asst. Prof.
 McCracken, E.-J., MA *McG*, PhD Asst. Prof.
 Roy, G., DUParis, MA PhD Asst. Prof.

French Language and Literature

Houpert, J., MA *Ill.*, DLett
 Prof.; Dir., French Summer Sch.
 Angers, Rev P, DèL *Louvain*, LLet
 Assoc. Prof.
 Gagnon, Rev E, LLet Assoc. Prof.
 Holher, R., LèL *Paris* Asst. Prof.
 Maheu, Br M G, MA *Laval*, DèL *Lille*
 Asst. Prof.

Geography

Dagenais, P., LScCom LèL *Paris*,
 DUGrenoble Prof., Dir of Section
 Brouillette, B., DUParis, LScCom Assoc. Prof.
 Garry, R., LLL Dipl'd'ÉtSup *Paris* Assoc. Prof.
 Bélanger, M., DUGrenoble, LLet Asst. Prof.

Chouinard, B. Asst. Prof.
 Laverdière, C., MA Asst. Prof.

Geology, see also Affiliated Instns., below

Tiphane, M., BScA *Laval*, MSc *McG*
 Assoc. Prof.
 Carbonneau, C., PhD *McG* Lectr

German, see Mod. Langs

History

Brufet, M., PhD *Clark*, BEd LScSoc
 MA Prof., Dir of Dept
 Séguin, M., DLett Prof.
 Papillon, Rev A, DTh *Pontf. Athen*
 Angelicum, DipArchiv *Grag* Assoc. Prof.
 Blain, J., LLet Asst. Prof.

Hungarian, see Slavic Studies

Hygiene, School of

Frappier, A., MD LSc, FRSCan Prof.
 Charbonneau, Gabrielle, BA MSc Prof.
 Charbonneau, J.-H., BA MD Prof.
 Foley, A.-R., DPH *Johns H.*, BL MD Prof.
 Gilbert, J., DPH *Johns H.*, MD Prof.
 Groulx, A., MPH *Johns H.*, MD Prof.
 Lafrenière, T.-J., BScA MSc IC Prof.
 La Salle, G., DPH *Tor*, MD Prof.
 Panisset, M., BA Hon DMV Prof.
 Plante, L., MPH *Yale*, LPéd LScS *MA* Prof.
 Sylvestre, J.-E., BSc MD DHP Prof.
 Tourangeau, F.-J., BA MD DHP Prof.
 Valois, A.-B., BA MD MPH *Johns H.* Prof.
 Archambault, J., BA DScA IC Assoc. Prof.
 Beaupré, B., BA BScA MASC MSc IP Assoc. Prof.
 Borduas, M. A., DSc Assoc. Prof.
 Charest, G., MD MPH *Johns H.* Assoc. Prof.
 Cyr, R., BA BScA IC Assoc. Prof.
 Forté, L., BPharm MSc Assoc. Prof.
 Girard, Alice, BSc MA Assoc. Prof.
 Landreville, A., BA MD MPH *Johns H.* Assoc. Prof.
 Marcotte, J.-E.-A., MD Assoc. Prof.
 Pavlanis, V., MD *Kawanas* Assoc. Prof.
 Jeanne-Mance, Rev Sr, DPH *Tor*, MA Assoc. Prof.
 Roy, A., BSc MA Assoc. Prof.
 Boutin, J.-R., BA MD Asst. Prof.
 Dorais, L., BA BPh LPs Asst. Prof.

Italian, see Mod. Langs.

Law, see below

Linguistics, Phonetics and Translation

Vinay, J.-P., LèL *Paris*, MA *Lond.*,
 FRSCan Prof., Dir of Section
 Charbonneau, Abbé R., Dipl *Inst.dePhon.*,
 Paris Assoc. Prof.
 Francœur, Andrée, MA Asst. Prof.

Hanna, B. T., MA
Lefebvre, G., MA PhD

Asst. Prof.
Asst. Prof.

Mathematics

Gauthier, A., MA Col., LScPhys LScMath Prof
L'Abbé, M., MA PhD Prin., LScMath

Prof., Dir. of Dept.

Saint-Pierre, J., PhD N Carolina, LScPhys
LScMath MSc Prof.

Brossard, R., LScMath MSc Assoc. Prof.

Fox, G., MA Br Col., PhD McG. Assoc. Prof.

Maranda, J., MA Tor., PhD McG.,
BScMath Assoc. Prof.

Thierin, G., DSc Frib. & Paris, LSc

Assoc. Prof.

Daigneault, A., MSc PhD Prin.,
BScMath Asst. Prof.

Guy, R., LScMath Geneva, DSc Paris

Asst. Prof.

Asst. Prof.

Lachapelle, B., BA BScMath
LeBlanc, L., PhD Chic., BScMath

MSc

Asst. Prof.

Zinger, A., BScMath PhD

Asst. Prof.

Robert, P., BA

Asst. Prof.

Medicine, see below

**Mineralogy, see Geol. and Affiliated
Instns., below**

Modern Languages (German, Spanish and
Italian)

de Groot, J., DLett Utrecht Prof

Cardenera, A., LLL Madrid Prof

Valentino, A., DLett Perugia Assoc. Prof.

Roussow, G., DrPhil Vienna Asst. Prof.

Music, see also Attached Instns., below

Teachers

Aubut, Françoise

Beaudry, J.

Cloutier, J. M.

Cusson, G.

Dessautels, Andrée

Graton, F.

Laurencelle, M.

Leclerc, H.

Lennsens-Heynin, R.

Letendre, C.

Morin, Rev. C., DTh LES Rome

Prof.

Papillon, Rev. A.

Papineau-Couture, J.

Pinsonneault, B.

Renshaw, Rosette

Rochefort, E.

Vallerand, J.

**Orthophonics, see Sch. of Rehabilitation
(p. 257)**

Pathology, see Anat. (pathol.)

Pharmacology, see Medicine, below

Pharmacy

Larose, A.-F., DPhm Prof

Barré, R., BPhm DSc Prof

Labarre, J., BPhm DSc Prof

Martin, E.-A., LPhm DSc Prof

Archambault, A., DPhm Paris, BPhm

Assoc. Prof.

Larose, R., BPhm LPhm Assoc. Prof.

Plourde, R., MPhm Assoc. Prof.

Riopel, P., MPhm MSc Assoc. Prof.

Bergeron, L., BPhm Asst. Prof.

Brossard, M., MPhm Asst. Prof.

Coderre, E., LPhm Asst. Prof.

Geoffrion, B. Asst. Prof.

Lafontaine, C., DPhm Paris & Mont. Asst. Prof.

Latour, R., DPhm Paris, BPhm Asst. Prof.

Lord, R., BPhm LPhm Asst. Prof.

Martel, H., BPhm LPhm Asst. Prof.

Mockle, J. A., DPhm Paris, BPhm Asst. Prof.

Salvador, R., DPhm Purdue, MPhm Asst. Prof.

Philosophy, see below

Phonetics, see Linguistics

**Physical and Occupational Therapy, see
Sch. of Rehabilitation (p. 257)**

Physics

Lorrain, P., BSc PhD McG. Prof., Dir. of Dept.

Demers, P., DScPhys Paris, LScMath&Phys

MSc, FRSCan Prof.

Bélair, R., LScChm&Phys MSc Assoc. Prof.

Labonté, Rev. G., LScPhys LTh LPh

MSc Assoc. Prof.

Bose, A., MSc Calc., DrRerNat Gött. Asst. Prof.

Lapointe, S., BScPhys MSc Corn., PhD

Asst. Prof.

Levesque, J. R., BSc SirG Wms.,

PhD Northwestern Asst. Prof.

Paquette, G., MA PhD Br.Col., BScPhys

Asst. Prof.

Reeves, H., BScPhys MSc McG.,

PhD Corn. Asst. Prof.

Physiology, see Medicine, below

Polish, see Slavic Studies

Russian, see Slavic Studies

Slavic Studies

Domaradzki, T.-F., LPh DpScPol Warsaw,

DLett Rome Prof., Dir.

Zaleski, Abbé M., PhD Warsaw Assoc. Prof.

Pletnev, R., DLett Prague Assoc. Prof.

Fediv, I., DrGeog Prague Asst. Prof.

Kirschbaum, J., LLD Bratislava, MA

Asst. Prof.

Kos-Rabcewicz-Zubkowski, L., MagJur

Warsaw, DenDroit Paris Asst. Prof.

Kurlents, A., LLet Tartu Asst. Prof.

Lalich, V., MA PhD Asst. Prof.

Nicholson, J. G., MA Camb. Asst. Prof.

CANADA

Radwanski, P, LPh DSc <i>Cracow</i>	Asst. Prof.	Madeleine-Thérèse, Sr., LPéd MSS	Lectr.
Roussow, G, PhD <i>Vienna</i>	Asst. Prof.	Mailhot, C, DPs	Lectr.
Rowicki, C, LLett <i>Prague</i>	Asst. Prof.	Paré, Simone, LScSoc <i>Laval</i> ,	
Skvor, G, LLD <i>Prague</i>	Asst. Prof.	MSc(Groupwork) <i>Pitt</i>	Lectr.
Stauber, J, MA	Asst. Prof.	Riendeau, Rev. R, MSS	Lectr.
Stearns, A, MA PhD	Asst. Prof.	Royer, A, MD	Lectr.
Arseniev, N	Guest Lectr	Sainte-Marie, J, LScCom	Lectr.

Social and Political Science and Economics

Rocher, G, MA <i>Laval</i> , PhD <i>Harv.</i>	Prof.
Garigue, P, BSc(Econ) PhD <i>Lond.</i>	Prof.
Guillemette, Rev. A. M., LLL <i>Laval</i> , LTh	
LSP <i>Louvain</i>	Prof.
Bouchard, M, DSc&Econ <i>Louvain</i>	Assoc. Prof.
Brizard, L. P., MA	Assoc. Prof.
Cardin, R, MRI	Assoc. Prof.
Govenlock, Abbé S, MSSW <i>C U A.</i> , LTh	Assoc. Prof.
Lacoste, Abbé N, LTh LScPol <i>Louvain</i>	Assoc. Prof.
Mathieu, Marguerite, BSW <i>McG</i>	Assoc. Prof.
Raynald, A., DSc&Econ <i>Paris</i> , MRI	Assoc. Prof.
Henripin, J, DSc&Econ <i>Paris</i>	Assoc. Prof.
Szabo, D, DScPol&Soc <i>Louvain</i> , Dipl&EtSup <i>Paris</i>	Assoc. Prof.
Zay, N, LLD LScPol <i>Bud</i> , MSS	Assoc. Prof.
Thur, O., BA <i>Bud</i> , LScCom <i>LScPol Louvain</i>	Assoc. Prof.
Beausoleil, G, MA <i>Laval</i>	Asst. Prof.
Benoist, J., MD LSc <i>Lyons</i> , Dipl&Et <i>Paris</i>	Asst. Prof.
Breton, A., BA <i>Mant</i>	Asst. Prof.
Breton, R, BA <i>Mant</i>	Asst. Prof.
Dubuc, A, BA <i>Laval</i> , LLD	
LScPol&Soc <i>Louvain</i>	Asst. Prof.
Fournier, L, MRI	Asst. Prof.
Guindon, H., LPh MA <i>Ott.</i>	Asst. Prof.
Lalonde, Marguerite, MS <i>N.Y.</i> , DipSS <i>McG</i>	Asst. Prof.
Lucier, J, MRI	Asst. Prof.
Havel, J. E., LicDroit DU Dipl&Et <i>Paris</i>	Asst. Prof.
Marion, G., MA(RI)	Asst. Prof.
Thomson, D. C., BA <i>Alta</i> , Dipl&Et <i>Pol D&L Paris</i>	Asst. Prof.
Thur, Mrs. O., BA <i>Bud</i> , LLD	
LScPol&Dipl <i>Louvain</i>	Asst. Prof.
Tremblay, L. M., MScS(RI) <i>Laval</i>	Asst. Prof.
Trouwborst, A, LAnthrop DAnthrop <i>Ley.</i>	Asst. Prof.
Rousseau, Claire, BA MSS	Asst. Prof.
Vamer, N., MSS	Asst. Prof.
Bédard, G.	Lectr.
Bolduc, R, LLL <i>Laval</i>	Lectr.
Boisvert, A., BPh LPh(Psychol)	Lectr.
Bourassa, G., BPh LScPol <i>Laval</i> , DScPol <i>Paris</i>	Lectr.
Dagenais, M, MA(Econ) PhD <i>Yale</i>	Lectr.
Desloges, Y., LLL	Lectr.
Geoffroy, J.-P., LLL	Lectr.
Jolicœur, F., MScSoc <i>Laval</i>	Lectr.
Lafontaine, Rev. J. M., LSc&Econ&Pol <i>Lille</i> , LTh	Lectr.
Lazure, D, MD	Lectr.

Spanish, see Mod. Langs.

Theology, see below

Translation, see Linguistics

Ukrainian, see Slavic Studies

DENTISTRY

Anæsthetics

Clermont, M, MD, FRCP	Assoc. Prof.
Raymond, A, DDS	Assoc. Prof.
Coulombe, L., MD	Lectr.

Crown and Bridge Prosthesis

Robichaud, H.-M, DDS	Prof.
Trottier, J.-P., DDS MScDent	Prof.

Dental Anatomy

Gauthier, G, DDS, FACD	Prof.
Bussières, J., DDS	Assoc. Prof.

Dental Hygiene

Bouillon, J. C, DDS MPH	Asst. Prof.
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Dental Jurisprudence

Mayrand, A, LLL LSP	Prof.
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Dental Metallurgy

Patenaude, C., DDS	Assoc. Prof.
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Dental Pathology

Mez, I., MD DDS	Assoc. Prof.
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Dental Prosthesis

Nadeau, J., DDS	Prof.
Patenaude, C., DDS	Assoc. Prof.

Dental Surgery

de Montigny, G, DDS MScDent, FACD	Prof.
Raymond, A, DDS	Assoc. Prof.
Genest, A., MD DDS	Asst. Prof.

Diagnosis and Radiology

Fontaine, J. N, DDS	Assoc. Prof.
Donohue, W. B, DDS	Asst. Prof.

Endodontics, see Operative Dent

Ethics

Archambault, C., DDS MSc	Assoc. Prof.
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History of Dental Surgery		Economics	
Fortier, A., DDS	Assoc. Prof.	Le Balle, Y., LLL	DèsEcon <i>Paris</i>
Materia Medica		Fiscal Legislation	
Silbert, H., DDS	Asst. Prof.	Cardinal, J. G., LLD	Assoc. Prof.
		Lemay, H.-P., LLB LScCom LSP	Asst. Prof.
Operative Dentistry and Endodontics		History of Law	
Deschênes, G.-H., DDS	Prof.	Morel, A., LLD <i>Paris</i> , LLL MA	Asst. Prof.
Yergeau, J., DDS	Assoc. Prof.		
Silbert, H., DDS	Asst. Prof.	Industrial Legislation	
Orthodontics		Montpetit, Hon. A., LLL	Assoc. Prof.
Geoffron, P., DDS, FACD	Prof.		
Barr, C., DDS	Asst. Prof.	Insurance	
Pedodontics		Meisier, F., LLL	Assoc. Prof.
Perreault, G., DDS	Asst. Prof.	International Law	
Periodontics		Molin, J.-Y., LL.M. <i>S Methodist</i> , DiplInternatLaw Camb, MA	Asst. Prof.
Pelletier, G., DDS	Asst. Prof.	International Private Law	
Physiology			Asst. Prof.
Laussier, J. P., DDS PhD, FACD	Assoc. Prof.	Introduction and Philosophy of Law	
LAW		Caron, M., QC, LLD	Prof.
Accounting		Medical Jurisprudence	
Girard, R., LSc	Lectr.	Roussel, J. M., MD	Lectr.
Administrative and Constitutional Law		Municipal Law	
Beetz, J., MA <i>Oxon.</i> , LLL	Assoc. Prof.	Comtois, R., LLL	Prof.
Hurtubise, R., BA <i>Oxon.</i> , LLL	Asst. Prof.		
Desjardins, A., LLL	Lectr.	Notarial Procedure	
Air Law		Comtois, R., LLL	Prof.
Mateesco, N., LLD <i>Paris</i>	Asst. Prof.	Cardinal, J. G., LLD	Assoc. Prof.
Civil Law		Parish Law	
Caron, M., LLD	Prof.	Cardinal, J. G., LLD	Assoc. Prof.
Mayrand, A., LLL LSP	Prof.		
Comtois, R., LLL	Prof.	Professional Ethics	
Martineau, P., LLL	Assoc. Prof.	Cousineau, Rev. J., LTh DPH LScSoc	Lectr.
Lefebvre, D., LLD <i>Paris</i>	Asst. Prof.	DiplScPol	
Primeau, R., BScA LLL	Asst. Prof.	Roman Law	
Tancelin, A., LLD <i>Paris</i>	Asst. Prof.	Morel, A., LLD <i>Paris</i> , LLL MA	Asst. Prof.
Lippé, Justice R., LLL	Lectr.		
Civil Procedure		School Law	
Ferland, P., LLD	Assoc. Prof.	Comtois, R., LLL	Prof.
Perreault, C., LLD	Assoc. Prof.		
Taschereau, L. P., LLL	Asst. Prof.	MEDICINE	
Guérin, G., LLL	Asst. Prof.	(for subjects of the first 2 yrs.—Anat., etc., see above)	
Commercial Law		Anæsthesia	
Beaulieu, R., BCL	Asst. Prof.	Longtin, L., MD	Prof.
Laprade, L., LLL	Asst. Prof.	Lamoureux, L., MD	Assoc. Prof.
Criminal Law		Brunet, J.-L., MD	Asst. Prof.
Lagarde, Judge I., LLD	Prof.	Cousineau, G., MD	Asst. Prof.

CANADA

Dubeau, M., MD
Fortin, G., MD
Gagnon, R., MD
Laporte, J., MD
Legault, L., MD
Marsolaus, A., MD
Mignault, G., MD

Asst Prof
Asst Prof
Asst Prof
Asst Prof
Asst Prof
Asst Prof
Asst Prof

Legal Medicine and Toxicology

Roussel, J.-M., MD

Prof

Materia Medica

Dufresne, R., MD

Prof.

Medical Ethics

Marcotte, Rev. M.

Lectr

Bacteriology

Frappier, A., MD LSc, FRSCan

Prof., Dir. of Dept

Gonea, S., MD

Prof

Fredette, V., BPharm DSc

Assoc Prof

Dionne, P., MD

Asst Prof

Leduc, A., MD

Asst Prof

Martineau, B., MD

Asst Prof

Nogrady, G., MD

Asst Prof

Saint-Marun, M., MD

Asst Prof

Biochemistry

Bouthillier, L. P., MSc PhD

Prof.

Gagnon, A., MD LSc

Prof

Bouziane, N., MD MSc PhD

Assoc. Prof

Bourgault, J. M., MD

Asst Prof

Gianetto, R., PhD

Asst Prof

Lachance, J. P., DSc

Asst Prof

Dermatology

Poirier, P., MD

Prof.

Foisy, J.-P., MD

Assoc Prof

Leclerc, G., MD

Assoc Prof

Baillargeon, Y., MD

Asst Prof

Blais, R., MD

Asst Prof

Lambert, A., MD

Asst Prof

Panaccio, V., MD

Asst Prof

Turgeon, P., MD

Asst Prof

Endocrinology and Experimental**Medicine and Surgery**

Selye, H., MD PhD *Prague*, DSc *McG.*,

FAAAS, FRSCan

Prof

Gynecology

Meunier, P., MD

Prof.

Magnan, A., MD

Assoc. Prof

Oumet, C., MD

Assoc Prof

Simard, Raymond, MD

Assoc Prof

Simard, Roland, MD

Assoc Prof

Gauthier, J., MD

Asst Prof

Lapointe, R., MD

Asst Prof.

Histology and Embryology

Bonin, W., MD,

Prof., Dir. of Dept.

Frappier, J., MD LSc

Prof

Poirier, L., MSc PhD *Mich.*, MD

Prof

Bélanger, Y., MD

Asst Prof

Burton, L., MD

Asst Prof

Lemire, A., MD

Asst Prof

Remillard, G., MD MSc PhD

Asst Prof

Richer, C. Lise, MD MSc

Asst Prof

History of Medicine

Dumas, P., MD

Assoc Prof.

Médecine

Dufresne, R., MD

Prof., Dir. of Dept.

Beauregard, J. M., MD LSc

Prof.

Boucher, R., MD

Prof.

Dussault, R., MD

Prof

Grignon, C. E., MD

Prof.

Letendre, P., MD

Prof.

Prévost, J., MD

Prof

Robert, P., MD

Prof

Baillargeon, B., MD

Assoc Prof

Bernier, J., MD

Assoc Prof

Blais, J.-A., MD

Assoc. Prof

Chaput, Y., MD

Assoc Prof

David, P., MD

Assoc Prof

Dumas, P., MD

Assoc Prof

Forrier, L., MD

Assoc. Prof

Genest, J., MD

Assoc Prof.

Gratton, A., MD

Assoc Prof.

Grignon, J., MD

Assoc Prof

Hébert, G., MD

Assoc Prof

Julien, P.-F., MD

Assoc Prof

Lefebvre, R., MD

Assoc Prof

Légar, J., MD

Assoc Prof

Long, L., MD

Assoc Prof

Monette, L., MD

Assoc Prof.

Robillard, R., MD

Assoc. Prof.

Adamkiewicz, Lydia, MD

Asst Prof

Bélisle, M., MD

Asst Prof

Bras, P., MD

Asst Prof

Casgrain, G., MD

Asst Prof

Cléroux, A., MD

Asst Prof

Coutu, L., MD

Asst Prof

Demers, R., MD

Asst Prof

Derome, L., MD

Asst Prof.

Domingue, C., MD

Asst Prof.

Dontigny, P., MD

Asst Prof.

Duquette, J., MD

Asst Prof.

Dunvage, J., MD

Asst Prof.

Fournier, G., MD

Asst Prof

Gialloretto, O., MD

Asst Prof

Gilbert, Ghislaine, MD

Asst Prof.

Gosselin, G., MD

Asst Prof.

Gratton, J., MD

Asst Prof.

Grégoire, F., MD

Asst Prof

Johnson, R., MD

Asst Prof.

Kakos, A., MD

Asst Prof

Lachaine, G., MD

Asst Prof.

Lanthier, A., MD

Asst Prof

Laramée, F., MD

Asst Prof.

Lebel, L., MD

Asst Prof

Leduc, G., MD

Asst Prof

Leduc, P. E., MD

Asst Prof.

Lemieux, G., MD

Asst Prof

Lessard, J.-M., MD
 Mackay, A., MD
 Marion, P., MD
 Mathieu, J., MD
 Mignault, J., MD
 Pichette, L. P., MD
 Piette, Y., MD
 Provost, G., MD
 Proulx, A., MD
 Prud'homme, J., MD
 Robillard, R., MD
 Rouleau, Y., MD
 Séguin, F., MD
 Tremblay, J., MD
 Vaillancourt, De G., MD

Neurology

Saucier, J., MD
 Amyot, R., MD
 Desrochers, J.-L., MD
 Courtois, G., MD
 Gauthier, C., MD

Obstetrics

Marion, D., MD
 Ferron, M., MD
 Fortier, J., MD
 Gagnier, M., MD
 Le Roy, A., MD
 Ricard, H., MD
 Tétrault, J., MD
 Attendu, C.-A., MD
 Bachand, M., MD
 Boileau, P.-A., MD
 Bourque, B., MD
 Desrosiers, L., MD
 Ducharme, G., MD
 Gagnon, J., MD
 Gibeault, H., MD
 L'Archevêque, M., MD
 Provost, A., MD
 Sansregret, E., MD
 Vadeboncoeur, R., MD

Ophthalmology

Cloutier, R., MD
 Blain, E., MD
 Brault, J., MD
 Henry, F., MD
 Charbonneau, R., MD
 Pellerin, R., MD
 Perron, L., MD

Oto-Rhino-Laryngology

Montreuil, F., MD
 Guertin, P., MD
 Badeaux, J., MD
 Belzile, M., MD
 Berthiaume, C. A., MD
 Blas, R., MD
 Brunelle, P., MD
 Dubuc, H., MD
 Huot, L., MD

Asst. Prof. Latraverse, V., MD
 Asst. Prof. Legrand, H., MD
 Asst. Prof. Marchand, L., MD

Pædiatrics

Asst. Prof. Charbonneau, H., MD
 Asst. Prof. Guilbeault, A., MD
 Asst. Prof. Bombardier, J.-P., MD
 Asst. Prof. Labrecque, R., MD
 Asst. Prof. Piette, J., MD
 Asst. Prof. Royer, A., MD
 Asst. Prof. Archambault, R., MD
 Asst. Prof. Bani, E., MD
 Asst. Prof. Brodeur, P., MD
 Asst. Prof. Dagenais-Péusse, P., MD
 Asst. Prof. Duplessis, J., MD
 Asst. Prof. Gauthier, L.-J., MD
 Asst. Prof. Girardin, G., MD
 Asst. Prof. Huard, G., MD
 Asst. Prof. Jolivet, G., MD
 Asst. Prof. Laberge, E., MD
 Asst. Prof. Langevin, P., MD
 Asst. Prof. Larivière, P.-M., MD
 Asst. Prof. Léonard, C., MD
 Asst. Prof. Léveillé, A., MD
 Asst. Prof. Major, W., MD
 Asst. Prof. Martel, J.-A., MD
 Asst. Prof. Paquet, J. A., MD
 Asst. Prof. Poirier, R., MD
 Asst. Prof. St Laurent, G., MD
 Asst. Prof. Thibodeau, L.-P., MD
 Asst. Prof. Trudel, H., MD

Pharmacology

Beaulne, A., MD
 Bois, P., MD
 Roy, P.-G., PhD

Phthisiology

Millet, J.-A., MD
 Paquette, P., MD
 Pilon, L., MD
 Jarry, G., MD
 Verschelden, M., MD

Physical Medicine

Gingras, G., MD
 Mongeau, M., MD

Physiology

Robillard, E., MD
 Lussier, J. P., DDS MSc PhD
 Cordeau, J. P.
 Adamkiewicz, V., PhD
 McGraw, J.-Y., MD DSc
 Rosenberg, Edith E., MD PhD

Psychiatry

Boulanger, J.-B., MD MA
 Côté, F., MD
 Laurin, C., MD
 Lemieux, R. R., MD
 Stern, K., MD

Asst. Prof.
 Asst. Prof.
 Asst. Prof.

Prof., Dir. of Dept.
 Prof.

Assoc. Prof.
 Assoc. Prof.
 Assoc. Prof.

Asst. Prof.
 Asst. Prof.
 Asst. Prof.

Asst. Prof.
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Prof.
 Asst. Prof.

Prof., Dir. of Dept.
 Assoc. Prof.

Assoc. Prof.
 Asst. Prof.
 Asst. Prof.

Assoc. Prof.
 Assoc. Prof.
 Assoc. Prof.

Assoc. Prof.
 Assoc. Prof.

Institute of Psychology		Fournier, Rev. R., DTh	Prof
Pinard, Rev. A., SThL DPh(Ps)		Lesieur, Rev. R., DTh Rome	Prof.
	Prof., Dir. of Inst	Morin, Rev. C., DTh LES	Prof.
Bélanger, D., MA LPs	Prof	Sauvé, Rev. I., DPh Rome, LTh	Prof.
Mailoux, Rev. N., SThL DPh	Prof.	Yelle, Rev. G., DTh Rome	Prof.
Barbeau, G.-L., DPs	Assoc. Prof.	Bertrand, G., LTh	Asst. Prof.
Clerk, Mrs. Gabrielle, DPh(Ps)	Assoc. Prof.	Boucher, Rev. E., DPh LTh	Asst. Prof.
Décarie, Mrs. Thérèse, LPs DPh(Ps)	Assoc. Prof.	Bourassa, Rev. F.	Asst. Prof.
		Brabant, Rev. O., LTh	Asst. Prof.
Laurendeau, Monique, MA DPh(Ps)		Brousseau, Rev. R., LTh DPh	Asst. Prof.
	Assoc. Prof.	Charron, Rev. Y., DTh	Asst. Prof.
Lavoie, G., LPs	Assoc. Prof.	Cousineau, Rev. A., LTh LES	Asst. Prof.
Lussier, A., LPs	Assoc. Prof.	Delhaye, Rev. P., DTh	Asst. Prof.
Mailhot, Rev. B., MA Harv., SThL	Assoc. Prof.	Fossy, Rev. L., LTh	Asst. Prof.
Marcotte, J.-E., MD	Assoc. Prof.	Fortin, Rev. B.	Asst. Prof.
Salman, Rev. D. H., DPh SThL	Assoc. Prof.	Gaudet, Rev. R., LTh	Asst. Prof.
Cardu, B., DPs Louvain	Assoc. Prof.	Gauthier, Rev. R., DTh	Asst. Prof.
Auclair, G., PhD Purdue	Asst. Prof.	Lalande, Rev. G., LChGr	Asst. Prof.
Cormier, D., DPs Chic.	Asst. Prof.	Ledit, Rev. J., MA DPh	Asst. Prof.
Gaudreau, J., DPh(Ps)	Asst. Prof.	Léveillé, Rev. P., LTh LPh	Asst. Prof.
		Locas, Rev. C., DPh LTh	Asst. Prof.
		Martucci, Rev. J., LTh LES	Asst. Prof.
		Moore, Rev. R., LTh LPh	Asst. Prof.
		Myre, Rev. P., LTh	Asst. Prof.
		Poisson, Rev. G., LTh LDC	Asst. Prof.
		Signori, Rev. B., LTh DDC	Asst. Prof.
		Tremblay, Rev. D., LTh LES	Asst. Prof.
THEOLOGY			
Paradis, Rev. F., DTh	Prof.		
Boité, Rev. P.-E., DTh LScS Laval	Prof.		
Desrosiers, Rev. J.-B., DTh DPh Rome	Prof.		
Dorris, Rev. R., DTh Rome	Prof.		

ADMINISTRATIVE AND OTHER STAFF

Asst Registrar C Saint-Arnaud, LScPhys
 MSc PhD Chaplain Rev P Grégoire
 Treasury P Huot, Asst Treasurer Internal
 Auditor D Clairoux Accounting R Beaulne

Maintenance of Bldgs O J Gratton Purchasing
 G Bourgeois Students' Association . . . Placement. M Cloutier Students' Residence and Social Centre. L Lemay.

AFFILIATED INSTITUTIONS

CLASSICAL STUDIES See below.

INSTITUTE OF FAMILY PEDAGOGY AND HOME ECONOMICS, 1410 Mont-Royal Blvd, Outremont, 8 (tel. Montreal, Crescent 6-2016). Founded 1942. Provides complete courses for BPF of the Univ. Directress—Sr. Marie-Théodore-de-la-Croix.

MARQUERITE D'YOUVILLE INSTITUTE (a higher school of nursing), 1185 Saint-Mathieu St., Montreal, 25 (tel. Montreal, Wellington 5-1182). Founded 1934. Provides complete courses for BScInf of the Univ. Directress—Sr. Denise Lefebvre. 42 other Profs and Assts

NORMAL SCHOOL FOR SECONDARY TEACHING, 3880 Chemin de la Côte-des-Neiges, Montreal, 25 (tel. Montreal, Wellington 5-8813). Founded 1941. Provides complete courses for BPéd, LPéd, DPéd of the Univ. Dir.—Rev. G. Ferras.

PEDAGOGICAL INSTITUTE, 4873 Westmount Ave., Montreal, 6 (tel. Montreal, Wellington 5-7388). Founded 1926. Provides complete courses for BPéd, LPéd, DPéd of the Univ. Directress—Sr. Sainte-Madeleine du Sacré-Cœur.

POLYTECHNIC SCHOOL, 2500 Guyard St., Mont-

real, 26 (tel. Montreal, Regent 9-2451). Founded in 1874. Provides complete courses for BScA, MScA and DScA of the Univ. in the following engin. options: chem., civil, electr., geol., mech., metall., mining and phys. engin. Principal—I. Brouillet. Dir.—H. Gaudefrey. 114 Profs., Assoc. Profs. and Asst. Profs.

ST GEORGE PEDAGOGICAL INSTITUTE FOR MEN, Mont-de-la-Salle, Laval-de-Rapides, 9 (tel. Montreal, Montcalm 4-3200). Founded 1919. Provides complete courses for BPéd, LPéd, DPéd of the Univ. Dir.—R. F. Charles

SCHOOL OF HIGHER COMMERCIAL STUDIES, 535 Viger Ave., Montreal, 24 (tel. Montreal, Victor 2-3486). Founded in 1907. Provides complete courses for BScCom, LScCom, LSc Comptables, LScAct and DScCom of the Univ. Dir.—Prof. E. Minville, LScCom, Hon LLD Ott., Hon DSc(Pol&Econ) Laval, Hon DSc (Econ) Sher. 80 Profs., Assoc. Profs., Asst. Profs. and Lectrs

SCHOOL OF OPTOMETRY, 2900 Mont-Royal Blvd., Montreal, 26 (tel. Montreal, Regent 8-7311). Provides complete courses for LScO of

he univ. Dir—J.-A. Messier 29 Profs., Assoc. Profs., Assts and others.

SCHOOL OF VETERINARY SCIENCE, Saint-Hyacinthe, Que., about 35 mls from Montreal (tel. Saint-Hyacinthe 4-8343) Founded 1886 Provides complete courses for DMV of the univ

Dir—J. Dufresne, BSA DMV DHVP LicPéd 30 other Profs and Assts

THOMAS MORE INSTITUTE FOR ADULT EDUCATION, 3421 Drummond St., Montreal (tel V12-5076) Provides complete courses leading to BA of the univ Dir—Father E. O'Connor

Classical Studies

Each of the 32 colls. for boys and girls listed below is affiliated to the univ. and provides a 4-yr. high sch course followed by a 4-yr. coll or arts course All colls except Loyola and Marianopolis are French-speaking The programme for the coll. course is prepared by the univ The univ exercises a supervision on the teaching staff and administers the yearly exams.

during the coll. course The students who pass successfully the yearly exams prepared by the fac. of arts are awarded the BA degree by the univ and may be admitted to grad (or professional) studies in the univ

There are also 58 approved instns which are not yet affiliated, but which offer all or part of the same courses for boys and girls.

For boys

COLLÈGE ANDRÉ-GRASSET, 1000 Grégnazie Blvd East, Montreal, 10 Superior—J. Langis, BèsLitt LTh Rome.

COLLÈGE BOURGET, Rigaud, P.Q Superior—Father E. Lefebvre, BA LPh Rome.

COLLÈGE CLASSIQUE SAINT-VIAEUR, 475 Bloomfield Ave., Outremont, P.Q Superior—Father L. J. Lefebvre, BA BTh LèsLitt&Péd

COLLÈGE DE L'ASSOMPTION, l'Assomption, P.Q Superior—Mgr H. Langlois, BA BDrCan LTh LèsLitt

COLLÈGE DE MONTRÉAL, 1931 Sherbrooke St West, Montreal, 25 Superior—D. Robitaille, BA LTh LèsLitt LPéd.

COLLÈGE DE SAINT-LAURENT, Saint-Laurent, P.Q Superior—Rev Father M. Descheneaux, BA.

COLLÈGE JEAN-DE-BREBUEP, 32 Ch Sainte-Catherine, Montreal, 26. Rector—Rev. Father R. Fortin.

COLLÈGE MONT-SAINT-LOUIS, 244 Sherbrooke St. East, Montreal, 18 Superior—Bro Mathieu-David, BA BPéd LèsLitt.

COLLÈGE SAINT-DENIS, 4152 St-Denis St., Montreal, 18 Director—G.-Y. Moreau, BA DPs.

COLLÈGE SAINTE-CROIX, 3280 Sherbrooke St. West, Montreal, 36. Superior—Rev. Father M. Lafond, BA LTh.

COLLÈGE SAINTE-MARIE, 1180 Beury St., Montreal, 2 Rector—Rev. R. Lebel.

COLLÈGE STANISLAS, 780 Dollard Blvd., Outremont, P.Q Superior—Mgr B. Fernique, BA

EXTERNAT CLASSIQUE DE LONGUEUIL, 945 Chamblay Rd., Ville-Jacques-Carter, P.Q.

Rector—Rev. Father F. Porter, BA LCat Rome, DTh Wash., DiplPéd Paris

EXTERNAT CLASSIQUE JEAN-JACQUES OLIER, 4300 Blvd. LaSalle, Verdun, P.Q. Superior—J. C. Côté, BA BTh

LOYOLA COLLEGE, 7141 Sherbrooke St. W., Montreal, 28. Rector—Rev. T. G. Malone.

SÉMINAIRE DE JOLIETTE, Joliette, P.Q. Superior—Father É. Jetté.

SÉMINAIRE DE PHILOSOPHIE, 3880 Côte-des-Neiges, Montreal, 25 Superior—R. Duhamel, BA LTh

SÉMINAIRE DE SAINTE-THÉRÈSE, Sainte-Thérèse-de-Blainville, P.Q. Rector—Mgr P. Décary, MA Fordham, BA BTh DiplPéd

SÉMINAIRE DE SAINT-HYACINTHE, Saint-Hyacinthe, P.Q Superior—Canon S. Lemoine, BA LTh

SÉMINAIRE DE SAINT-JEAN, Saint-Jean, P.Q. Rector—Mgr B. Courville, BA.

SÉMINAIRE DES SAINTS-APÔTRES, Côte Ste-Catherine, Laprairie, P.Q. Superior—Rev. Father J. P. Roy, BA LTh Gég

SÉMINAIRE DE VALLEYFIELD, Salaberry de Valleyfield, P.Q. Superior—Rev. L. Beauchamp, BA LTh.

SÉMINAIRE ORLAT DE MARIE-IMMACULÉE, Chambly, P.Q Superior—Rev. Father R. Ostguy, BA DPh Ott., LPh Rome, LTh Gég

SÉMINAIRE SAINTE-CROIX, Saint-Laurent, Montreal, 9. Superior—Rev. Father M. Lalonde, BA.

SÉMINAIRE SAINT-SACREMENT, Terrebonne, P.Q Superior—Rev. Father E. Bussières, BA.

For girls

COLLÈGE BASILE-MOREAU, Saint-Laurent, P Q
Directress—Sister Marie-de-Saint-Albert-le-Grand, BA LésLitt&Péd.

COLLÈGE JÉSUS-MARIE, Outremont, P Q Di-
rectress—Sister M Joseph-du-Saint-Sacrement,
BA LésLitt

COLLÈGE MARGUERITE-BOURGOYS, Montreal.
Directress—Sister Saint-Sylvius, MA

COLLÈGE MARIE-ANNE, Lachine, P Q. Direct-
ress—Sister Marie-Pauline-de-Jésus, BA BPéd

COLLÈGE SAINT-AURICE, Saint-Hyacinthe,
P Q Directress—Sister Marie-Gabriel-de-la-
Passion, BA LPéd

MARIANOPOLIS COLLEGE, Montreal. Dear—
Sister St Madeleine of Charity, BA Ott, MA Col.

ATTACHED INSTITUTIONS (ÉCOLES ANNEXÉES)

(These are instns affiliated to the univ through a univ fac or a univ sch. The teaching
staff of the Attached Institutions are not listed by name above.)

HIGHER INSTITUTE OF HOSPITAL ADMINISTRATION, 2900 Mont-Royal Blvd., Montreal, 26 (tel
Montreal, Regent 3-9951) Attached to the Sch
of Hygiene. Provides complete courses for MAH
of the univ. Dir—G Lassalle, MD DHA

HIGHER INSTITUTE OF RELIGIOUS SCIENCES,
2900 Mont-Royal Blvd., Montreal, 26 (tel
Montreal, Regent 3-9951) Attached to the Fac.
of Theology. Provides complete courses for
BScRel, MScRel, MA, PhD of the univ. Dir
of Studies—Rev. R. Brousseau, LTh DPh.

HIGHER SCHOOL OF MUSIC OF THE INSTITUTE
OF THE SISTERS OF ST ANNE, Institut Cardinal
Léger, Rosemont, P Q (tel. Montreal, Raymond
8-3681). Provides complete courses for BMus,
LMus, DMus of the univ. Directress—Sr
Marie-du-Cénacle

HOME ECONOMICS 8 schools

INSTITUTE OF DIETETICS AND NUTRITION, 2900
Mont-Royal Blvd., Montreal, 26 (tel. Montreal,
Regent, 3-9951). Attached to the Fac. of
Medicine. Provides complete courses for BSc
(Nutr), MSc(Nutr) Directress—Rachel Beau-
doin, BSc Corn., DScHyg Harv., MSc

INSTITUTE OF TRANSLATION, 410 Wiseman St.,
Montreal, 8 (tel. Montreal, Crescent 8-5879).
Provides evg. courses for a univ dipl. Directress
—Jeanne Grégoire

LASALLE CONSERVATORY (French elocution and
oratory), 3425 Ridgewood Ave., Apt. 405, Mont-
real, 26 (tel. Montreal, Regent 8-1406) Pro-
vides complete courses for a univ. dipl. Dir—
Suzanne P. Goyette.

LIBRARY SCHOOL, 25 St James Street East,
Montreal, 1 (tel. Montreal, University 1-9621)
Provides complete courses for BLibl of univ
Dir.—J. R. Leduc, BA BLS McG

NAZARETH INSTITUTE (Music School for the
Blind), 1460 Chemin de la Côte-Saint-Michel
(tel. Montreal, Dupont 8-4277) Provides com-
plete courses for BMus, LMus, DMus Directress
—Sr Rita Ilamed

NOTRE-DAME SCHOOL OF MUSIC, Hull, P Q
Provides complete courses for BMus of univ
Directress—Sr Marie-de-la-Victoire

K

PIUS XI INSTITUTE (a higher school of theol.),
2065 Sherbrooke St. West, Montreal, 25 (tel.
Montreal, Wellington 3-1860) Provides complete
courses for a cert. Dir—J. B Desrosiers.

SAINTE-CROIX SCHOOL OF MUSIC, Saint-
Laurent, P Q Provides complete courses for
BMus of univ. Directress—Sr Marie de
Ste-Jeanne-du-Rosaire

SCHOOL FOR TOURISTS' GUIDES (History of
Montreal), 2900 Mont-Royal Blvd., Montreal, 26
(tel. Montreal, Regent 7-6561) Periodical evg.
courses lead to a cert. Dir—G Roy

SCHOOL OF MEDICAL TECHNOLOGY, 2900 Mont-
Royal Blvd., Montreal, 26 (tel. Montreal,
Regent 3-9951) Attached to the Fac. of Medicine.
Provides complete courses for a dipl. Dir—R.
Beaulieu, MD.

SCHOOL OF MUSIC OF THE COLLEGE MARIE-DE-
L'INCARNATION, Trois Rivières, P Q Provides
complete courses for BMus, LMus of the univ.
Directress—Mother Saint-François-de-Borgia

SCHOOL OF MUSIC OF THE SISTERS OF LA
PRÉSENTATION-DE-MARIE, Saint-Hyacinthe, P Q
Provides complete courses for BMus, LMus of
univ. Directress—Sr. Marie-Noëlle.

SCHOOL OF MUSIC OF THE SISTERS OF THE
ASSUMPTION, Nicolet, P Q Provides complete
courses for LMus of univ. Directress—Sr
Cécile-de-la-Trinité

SCHOOL OF REHABILITATION, 2900 Mont-Royal
Blvd., Montreal, 26 (tel.: Montreal, Regent
3-9951) Attached to the Fac. of Medicine
Depts. of (a) Physiotherapy and Occupational
Therapy, (b) Audiology and Speech Therapy
Provides complete courses leading to (a) dipl.,
(b) MA of univ. Dir.—G Gingras, MD

VINCENT D'INDY SCHOOL (a higher school of
music), 1410 Mont-Royal Blvd., Outremont, 8
(tel. Montreal, Crescent 9-1215) Provides
complete courses leading to BMus, LMus, DMus
of univ. Dir—H. St. Marie-Stéphane

INSTITUTE OF EXPERIMENTAL MEDICINE AND
SURGERY, 2900 Mont-Royal Blvd., Montreal, 26
(tel. Montreal, Regent 3-9951). Provides basic
res. facilities leading to MSc, PhD of univ.

Dir.—H. Selyé, MD PhD *Prague*, DSc *McG.*, FAAAA, FRSCan.

INSTITUTE OF MICROBIOLOGY AND HYGIENE, 2500 Mont-Royal Blvd., Montreal, 26 (tel. Montreal, Regent 3-5394) Founded 1938. No degrees awarded. Candidates for MSc or PhD (appl. res.) of the univ. work at this inst. Dir.—A. Frappier, MD

MONTREAL CANCER INSTITUTE, 1560 Sherbrooke St. East, Montreal, 25 (tel. Lafontaine 5-6363).

Founded 1941, affiliated to the univ. in 1958. Provides basic & appl. res. facilities leading to MSc, PhD of univ. Dir.—L. C. Smard, MD.

RADIUM INSTITUTE, 4120 Ontario St. East, Montreal, 4 (tel. Montreal, Lafontaine 3-3151) Founded 1922, affiliated to the Radium Institute in Paris 1923 Hospital attached. Appl. res., no degrees awarded. Dir.—R. Lévesque, MD.

GENERAL INFORMATION

Originally establd. in Montreal in 1876 as a branch of Laval Univ., the Univ of Montreal became autonomous in 1920, under a special act of the legislature of the province of Quebec subsequently revised in 1950. It also enjoys certain privileges under a papal charter dating from 1919 and is Roman Catholic in outlook. Through affiliated instns (see above) as well as by itself, the univ. caters for the educnl. needs of over 12,000 students, over 3000 of whom attend courses and lectures in the bldgs of the univ proper.

CONSTITUTION Four out of the 12 members of the bd of governors are apptd by the Roman Catholic hierarchy. The remaining 8 governors are French-Canadian business personalities. The bd. is self-perpetuating. Financial affairs are under the direct supervision of an executive cttee composed of 5 governors; the chief executive officers are the rector, vice-rector, secretary general and treasurer general. Pedagogical matters are determined by a commission on studies composed mainly of the deans of the different facs.

INCOME Total income (1959-60), \$5,567,612 (principal sources: provincial govt grants, 44 per cent., fees, 29 per cent.; endowment and grants for res., sp. educnl and allied projects, 27 per cent.) Total income excludes theology and all affiliated instns, which are autonomous and have their own separate budgets.

FACULTIES AND DEANS, see p 247

UNIVERSITY PRECINCT The univ is owner in freehold of several acres on the western slope of Mont-Royal. The present bldgs were erected between 1937 and 1941, at a cost of over \$12,000,000. In 1947-48, an additional \$12,000,000 was raised through public subscriptions for various purposes. So far, a students' residence and a students' union bldg have been completed and a pension fund for fac. and staff has been establd. There still remains to be completed the univ hosp.

LIBRARY. General libry, 250,000 vols., sch of higher comml studies, 130,000 vols., sch of engin, 99,800 vols., Grand Séminaire de Montréal, 58,200 vols. Total 538,000 vols.

TEACHING HOSPITALS. Hôtel-Dieu (general), H. Notre-Dame (general), H. St-Luc (general), Veterans H (general), H. de la Miséricorde

(maternity), H. Ste-Justine (children), H. du Sacré-Cœur (general and TB), H. Général de Verdun (general), H. Pasteur (infectious dis.), H. Ste-Jeanne-d'Arc (general), Sanatorium St-Joseph (TB), Institut Albert Prévost (mental), H. St. Jean de Dieu (mental), Institut Bruchési (TB), H. Maisonneuve (general)

ADMISSION The usual admission prerequisite is a bachelor of arts degree in humanities of the Univ of Montreal or its equivalent. However, students with sr matric are now admitted to the facs of sci., soc, econ & pol sci, schs of comm, engin, rehabilitation, med technol, and inst of dietetics. Students residing outside the province of Quebec must submit full particulars of studies and marks obtained during their BA course or towards the securing of any other dipl submitted. For full details see the *General Prospectus* and the *Prospectus* of each fac and sch. concerned. Enquiries should be addressed to the sec. of the sch. or fac in which the student intends to register. See also Appendix III.

DEGREE OF BACHELOR OF ARTS The *baccalauréat ès arts* (BA) is awarded by the univ, the complete course leading to it being a 4-yr. course provided in private *collèges classiques* affiliated to the univ (for a list, see pp 256-7).

Students are admitted to the coll course by passing *immatriculation* exams set by the univ. (thus obtaining the matric. dipl of the univ.) This exam. takes place at the end of the secondary course, which is of 4 yrs' duration, the last yr corresponding to the 11th yr. of schooling. For the secondary course most of the *collèges classiques* have their own high sch where students receive instructn for grades VIII, IX, X, XI and prepare for the *immatriculation* exams. The BA, awarded by the univ at the end of the 4th yr of coll. (when the student is about 20 yrs old), is a gen. arts degree entitling the candidate to begin professional studies in law, med, dent or to enter upon further studies in arts, letters, philos., or sci. Exams are set by the univ every yr. of the coll. course.

Courses for adults seeking the BA are provided in the univ itself.

The univ. also awards the BPéd (4 yrs. after matric) to certain students in public *écoles normales*.

OTHER DEGREES After the BA (or, in certain subs., after sr matric *see* 'Admission', above) the student may proceed, in the univ itself, to the following degrees in the fields indicated: *Dent* DDS, 4 yrs after BA. *Hygiene* BEdPR, 4 terms after BA, BSc or BPéd. *MEdS*, 1 yr after BA, BPéd, BPF or BEdPR. *Law*: LLB, 3 yrs after BA, LLL, 3 yrs after BA, MA in law, 1 yr after LLB or LLL, LLD, 3 yrs after LLL. *Letters*: MA in letters, 1 yr after BA, LLet, 2 yrs after BA, PhD, 2 yrs after MA; DLet, 2 yrs after LLet. *Med*: MD, 5 yrs after BA, MSc in med, 1 yr after MD or BSc. *PhD in med*, 3 yrs after MD or BSc. *Music* (sacred or profane) BMus, 2 yrs after BA, LMus, 4 yrs after BA, DMus, 2 yrs after LMus. *Pharmacy*: BPharm, 4 yrs after BA, MPharm, 1 yr after BPharm, DPharm, 3 yrs after BPharm. *Philos*: BPh, 1 yr after BA; MA in philos, 1 yr or 3 yrs after BA, LPh, 1 or 2 yrs after BPh, DPh, 1 yr after LPh, PhD, 1 or 2 yrs after MA. *Pure sci*: BSc gen, varies, BSc spec (in biochem, biol, chem, geol, maths, maths-phys, phys), 3 yrs after BA, or 4 yrs after sr matric, MSc, 1 yr after BSc spec, DSc or PhD, 2 yrs after MSc. *Soc sci.*, econ & pol sci: BSc in econ, pol or social-anthropol, 2 yrs after BA or 4 yrs after sr matric dipl, MA in anthropol, criminol, econ, indust. relns, pol, soc service or social, 1 or 2 yrs after BSc taken in this fac, PhD (in anthropol, econ, indust. relns., pol, soc service, social), 2 yrs after MA taken in this fac. *Theol*: BTh, 2 yrs after BA, LTh, 2 yrs after BTh, DTh, 1 yr after LTh.

Degrees of the univ for which courses are provided only in the Affiliated Institutions

Agric Inst of Oka: BSA, 2 yrs after BA; LSA, 4 yrs after BA; MSA, 2 yrs after BSA or LSA. *Inst. of Family Pedagogy*: BPF, 4 yrs after matric, dipl. *Marguerite d'Youville Inst*: BScInf, 2 yrs after sr matric, plus nursing. *Normal Sch for Secondary Teaching*: BPéd, 1 yr after BA, LPéd, 2 yrs after BA, DPéd, 2 yrs after LPéd. *Pedagogical Inst*: BPéd, 4 yrs after matric dipl, LPéd, 2 yrs after BPéd; DPéd, 2 yrs after LPéd. *Polytechnic Sch*: BScA, 3 yrs after BA, MScA, 1 yr after BScA, DScA, 3 yrs after BScA. *St George Pedagogical Inst for Men*: BPéd, 1 yr after BA, LPéd, 2 yrs after BPéd, DPéd, 2 yrs after LPéd. *Sch of Higher Commercial Studies*: BScCom, 4 yrs after matric, LScCom, 3 yrs after BA or 2 yrs after BScCom, LScComptables, 1 yr after LScCom, LScAct, 1 yr after LScCom, DScCom, 2 yrs after LScCom. *Sch of Optometry*: LScO, 3 yrs after BA. *Sch of Veterinary Sci*: DMV, 4 yrs after BA.

Degrees of the univ for which courses are provided only in the Attached Institutions

Higher Inst of Hosp Admin: MAH, 2 yrs after BA. *Higher Inst of Religious Sci*: BScRel, 2 yrs after BA, MScRel, 1 or 2 yrs after BScRel,

MA in relig sci, 2 yrs after BA, PhD in relig sci, 2 yrs after MA in relig sci. *Inst of Dietetics & Nutrition*: BSc(Nutr), 4 yrs after matric., MSc(Nutr), 2 mos. after BSc(Nutr). *Library Sch.*: BBib, 1 yr after BA. *Sch of Rehabilitation*: MA in speech therapy & audiol, 2 yrs after BA or BSc.

HONORARY DEGREES LLD, DScCom

DIPLOMAS DHP, DHDP or DHVP, IH (Infirmière Hygiéniste), 1 yr, dipl in orthodontics, 16 mos after DDS, dipl in nursing, 3 yrs, dipl in physiotherapy & occupnl therapy, 3 yrs, dipl in med technol, 2 yrs.

FEES 1960-61 (annual) Theol, \$200; Higher Inst of Religious Sci, \$325, law, \$375, med, \$325; exper med & surg, \$375, dietetics, \$360, med technol, \$375, rehabilitation, \$375, philos., \$375; mediev studies, \$375, psychol., \$375, letts, \$375, scis., \$425, dent surg, \$475, pharm, \$425, soc sci, \$375, music, \$360, hyg, \$500, Polytechnic Sch, \$325 (1st yr), optometry, \$400, Vet Sch, variable, Sch of Higher Comm Studies, \$240 (1st yr), Marguerite d'Youville Inst, \$280; Normal Sch for secondary teaching, \$350, St George Pedagogical Inst, variable; Pedagogical Inst, \$150, Inst of Family Pedagogy, \$250.

ACADEMIC YEAR Mid-Sept to May 2 terms of 20 wks

USUAL LANGUAGE OF INSTRUCTION is French. Students may write exams. in French or English.

EXTENSION DEPARTMENT Organized in 1952, offers in the evgs. and summer months several non-degree courses. Students may also register in the facs of arts & sci. for full degree courses leading to BA and BSc (general). Dir.—L. Lortie, DScPhys Paris, Hon. DSc Ott & Caen, LScChm, FRSCan

VACATION COURSES in French and English lts. and langs., linguistics, philos, hygiene, pure sci., slavc studies, translation, music

GRADUATES' ASSOCIATION. Les Diplômés de l'Univ de Montréal, 2222 Maplewood Ave, Montreal, 26 (tel. Montreal, Regent 3-9951) Sec—J Lamothe

UNIVERSITY MILITARY FORMATION Corps-école d'officiers canadiens. (COTC) Also univ naval trg div. and RCAF reserve univ flight

STUDENTS' UNION. A.G.E.U.M. (Assoc. Général des Étudiants de l'Univ de Montréal)

PUBLICATIONS *Annuaire général* (May), *General Prospectus* and fac. *Prospectus*, *La Revue trimestrielle canadienne* (\$3), *L'Actualité économique* (\$3), *L'Action universitaire* (\$3), *Thèmes* (\$2.50), *La Revue médicale* (\$3), *La Revue de biologie* (\$6), *Contributions à l'étude des sciences de l'homme* (\$4), *Études slaves et est-européennes* (\$4)

THE YEAR 1960

PRINCIPAL BENEFACTIONS Fondation Rhéaume, \$34,000, Gustavus & Louise Pfeffer res foundation, \$59,500

DEATHS Dr G Labelle (dir, sch of vet med); Dr E Dubé (formerly dean, fac of med); Dr R Rolland (formerly asst. prof, fac of med), Rev Br L. Macarus (formerly dir, St George pedagogical inst), Rev. A Allard (formerly prof, fac. of theol), Notary V Morin (prof emer, fac of law), J-M Nadeau (hon prof, fac of letters), Dr O Manseau (asst prof, fac of med), Justice L-C Pelletier (prof, fac of law), G. Landreau (dir, Lasalle conservatory and prof, polytech sch), Dr A Marin (prof. emer., fac of med); J Désy (prof emer, fac of soc, econ & pol sci), J-A. Villeneuve (formerly prof, polytech sch.), Dr P. Panneton (prof emer, fac of med).

HONORARY DEGREES LLD—C Bissell, pres., Tor., J R Bradfield, pres, Noranda Mines Ltd, and pres., Canadian Metal Mining Assocn.; H E F Lacoste, French ambassador in Canada, Mgr. O. Maurault, formerly rector, Montr., Mrs E Montpetit, wife of late sec gen. of Montr., Hon Y. Prévost, sec of P Q; Dr P Dudley White, U.S cardiologist. DScCom—W Girouard, pres, Volcano Ltée, G. LaTour, gen. manager, Chambre de Commerce du district de Montréal, Senator H. de M. Molson, pres., Molson's Brewery; L-G. Rolland, pres, Cie de Papier Rolland Ltée

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	11,993	3097
Women . . .	6,093	1820
Total	18,086	4917

Distribution by Faculties and Schools Agric, 114, arts, 6653, comm, 766; dent, 170, distet & nutrition, 92, engm, 1402, family ped, 178,

home econ, 368; hyg, 126; law, 500; letters, 226, library sci, 27, med, 573, med technol, 98, music, 213, nursing, 2362, optometry, 62; pedagogy, 1647; pharm., 325, philos, 305, rehabilitation, 69; rel. sci, 37, sci, 849, soc, econ & pol sci., 305; theol, 472, vet. med, 147
Total: 18,086

Included in the figures above are —

Postgraduate students, 1921

Students from other countries, 549 (Countries from which largest numbers came U S A, 148, France, 80, Haiti, 35, Vietnam, 33, Italy, 26, Belgium, 24).

DEGREES AWARDED (1959-60). Agric LSA, 9, BSA, 6 Arts BA, 989 Comm LScCom, 42, BScCom, 37 Dent DDS, 45 Educn LPéd, 121, BPéd, 356, BPF, 24 Engm DScA, 1; MScA, 3, BScA, 168 Hyg LH, 11; BH, 3, MH, 12 Law LLD, 1, LLM, 1, LLL, 78, LLB, 2 Letters LLet, 19, MA, 57, DLett, 7. Library sch BBib, 4 Med MD, 99, PhD, 4, MSc, 8, BSc(Nutr), 11 Music MMus, 18, LMus, 2, BMus, 14 Nursing BScInf, 21 Optometry LScO, 16 Pharm PhD, 1, MPharm, 3, BPharm, 38. Philos DPhil, 4, PhD, 1; LPh, 15, BPh, 39, MA, 15, LPh (psychol), 4, MA (psychol), 2, PhD (psychol), 3; DPh (psychol), 3, LPh (mediev studies), 3; BPh (mediev studies), 1 Sci: PhD, 9, MSc, 15, BSc, 97 Soc, econ & pol sci. MA(Econ), 4, MA(RelInd), 5, MA (Soc), 1, MA(SocWork), 20; BSc, 12. Theol DTh, 2, LTh, 38, BTh, 60. Vet med. DMV, 28.

DIPLOMAS AWARDED (1959-60) Elocution, 18, family and soc educn, 99; hyg, 15, med. technol, 34, music, 5; nursing, 452; pub health nursing, 39, theol, 36, translation, 38, tourism, 30

CERTIFICATES AWARDED (1959-60). Dent (postgrad), 5; letters, 2, music, 10, theol, 58.

MOUNT ALLISON UNIVERSITY*

Founded 1858, previously established as Mount Allison Wesleyan Academy, 1840

Postal Address · Sackville, New Brunswick, Canada

Cables and Telegrams · Mount Allison, Sackville, New Brunswick

Telephones · Sackville 15, 17 and 258

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W S H CRAWFORD, MA PhD *Mmm*, BA

LIBRARIAN—L M ALLISON, BA *Dal*, BLS *Tor*

TEACHING STAFF

[†=Part-Time]

Art, see Fine Arts	Meldrum, W W., LLB <i>Dal</i>	†Lectr.
	McFarlane, Alice, BA	Lectr.
Biology	Economics and Political Science	
Stallworthy, W B, BA PhD <i>Tor</i>	Cunningham, W B, BA <i>Acad</i> , MA	
Prof, Hd. of Dept	PhD <i>Brown</i> Black Prof, Hd of Dept.	
Dimelow, Elizabeth J., BA <i>Burm</i> ,	Campbell, I I., BA <i>Car</i> , MSc(Econ) <i>Lond</i> .	Asst Prof
BSc <i>Lond</i> , PhD <i>R'dg</i> .		Lectr.
Rebuck, A, MSc <i>Penn</i>	Greenslade, J G, BSc(Econ) <i>Lond</i>	
Chemistry	Education	
Cuthbertson, A C, MSc PhD <i>McG</i> ,	Southam, H D, BA <i>Br Col</i> , DPæd <i>Tor</i>	
(on leave) Carnegie Prof., Hd of Dept	Prof, Hd of Dept	
MacLauchlan, D W, PhD <i>McG</i> , BSc	Bailey, A W, MA BEd <i>New Br</i> .	Asst Prof.
Prof, Actg Hd of Dept		
Barclay, L R C, PhD <i>McM</i> , MSc Assoc Prof	Engineering	
Armour, C A, MSc <i>Dal</i> , PhD <i>Lond</i> ,	Boorne, R. A, BAsc <i>Tor</i> Prof, Hd of Dept	
BSc	Pond, G R, BE <i>N S T C</i> Asst Prof	
Layton, T M, BEd <i>Dal</i> , MSc	Hannah, G W, BSc BE <i>N S T C</i>	Lectr
Classics	English Language and Literature	
Crake, J E A, BA <i>Tor</i> , MA <i>Oxon</i> ,	Duchemin, L, BA <i>Dal</i> , MA PhD <i>Tor</i>	
PhD <i>Johns H</i> Wood Prof, Hd of Dept	(on leave) J. Allison Prof, Hd of Dept	
MacLean, H A, BA <i>McM</i> , MA PhD <i>Wis</i>	McRac, C F, BA <i>W Ont</i> , MA <i>McM</i> ,	
Asst Prof	PhD <i>Tor</i>	
Sherwood, D A, BS <i>Purdue</i> , MA <i>Tor</i>	W M Tweedie Prof, Actg Hd of Dept	
Lectr.	Thomson, G H, BA <i>W Ont</i> , MA	Assoc Prof
	PhD <i>Tor</i>	
Commerce	Mitcham, P, MA <i>New Br</i> , PhD <i>Lond</i>	Asst Prof
Leard, A D, BA		

* Member of the Association of Universities of the British Commonwealth

Morris, I, MA BLitt *Oxon.*
 Sidnell, M J, BA *Lond*
 Parker, G D, BA *Acad*, MA *Dal*

Asst. Prof
 Lectr
 Lectr

Fine and Applied Arts

Harris, L P Prof., Hd of Dept
 Colville, A, BFA Assoc. Prof
 Pulford, E B, BFA Asst Prof
 Dow, Helen J, BA *Tor*, PhD *Bryn Col*

Asst Prof.

French

MacBeth, T A., MA *Middlebury*
 Avar Prof, Hd of Dept.
 Chesaux, D R., MA *Maine* Lectr
 Falu, H P L, LèsL *Paris* Lectr
 Guad, Marguerite, BA *Col*,
 LèsL *Aix-Marseille* Lectr
 Lagarde, A L, BA *St Jos.* Lectr

Geology

Williamson, D. H., BSc PhD *Aberd.*
 Dunn Prof, Hd of Dept
 Allen, C. M., MSc *Manit.* Asst Prof.
 Sims, W A, BA *Amherst*, BSc *St F.X.*,
 MSc *McG* Asst Prof

German

Kirkconnell, Janet F., BA *Acad* Lectr

History

Lockwood, P. A., MA *Camb*
 (on leave) Stiles Bennett Prof, Hd of
 Dept
 Tolmie, M M, BA *Dal*, MA *Oxon* &
Harv Asst Prof., Actg Hd of Dept
 Humphries, C W, BA *McM*, MA *Tor* Lectr
 Duckworth, M. W., BA *Yale*, MA *Tor* †Lectr

Home Economics

Runciman, Doris, BS MA *Col.* Prof, Dir.
 Cavanagh, Christine M, BSc *Acad*,
 MSc *Col.* Assoc. Prof
 Kennish, Marjorie, BSc *Tor.*, MBA *Chc* Asst Prof.
 Seaman, Mrs. Louise V, BSc Asst. Prof.

Mathematics

Crawford, W. S H, MA PhD *Munn*, BA
 Smuth Prof., Hd of Dept.
 Russell, D C, BSc *Sheff*, PhD *Lond* Assoc Prof
 Flemming, J A, BE *N S T C* Lectr.
 Sparkes, E F, BA Lectr.
 Lectr

Music

Brown, H, BA MusB *Tor*, MA *Mich*
 (Piano) Prof., Dir. of Conservatory
 Patterson, Allison, BSc BED
 (Piano & Organ) Teacher
 Allen, Dorothy, MusB (Voice) Teacher
 Daniel, Catherine J (Voice) Teacher
 Kinsman, Miss Evron, MusB (Piano) Teacher
 Lewis, Patricia G (Piano) Teacher
 Elliott, C., MMus *Redlands*
 (Music Theory & Piano) Instr
 Saunders, S, DipMus DipEd *Wales*
 (Orch Instruments) Theory Teacher
 Spurr, Mrs Louise, BA *Dal*
 (Public Sch Music) †Instr

Philosophy

Baxter, C., MA PhD *Tor*
 H A Massey Prof, Hd. of Dept.
 Stanway, R A, MA *Tor* Lectr

Physics

MacGregor, D G, BA *Dal*, MA *Oxon*
 O. E. Smuth Prof, Hd of Dept.
 Crawford, D. P., MSc *Dal*, PhD *Roch*,
 BSc Prof.
 Matthews, J H, MSc *Dal*, PhD *Lond.*,
 BSc Assoc Prof

Psychology and Sociology

Tuck, J A., MA PhD *Tor* Prof, Hd of Dept.
 Campbell, I. L, BA *Car*, MSc(Econ) *Lond* Asst Prof
 Duckworth, Satu S, BA *Conn* †Lectr.
 Mabey, D E., BA †Lectr

Spanish

Lectr

ADMINISTRATIVE AND OTHER STAFF

Dean of Men J A Haig, BPHE BA BD STM
 Dean of Women Inez Morrison, BA DipTheol
 Dir, Alumni A MacLellan, BA Public Re-
 lations: G R. B Inch, BA. Treasurer &
 Business Manager J. A Wheeler. Chaplain:

D. I. Macintosh, BD *Pine Hill*, BA Dir, Phys
 Educn for Men. Major W McCormack Dir.,
 Phys Educn for Women Joy Taylor, BPHE
 BA *Tor*

ASSOCIATED AND AFFILIATED INSTITUTIONS

MARITIME SCHOOL OF SOCIAL WORK, Halifax,
 N S (tel. 3-6907) Founded in 1941, affiliated
 with Mt All in 1951. Mt. All confers MSW

after 2 yrs of professional trg at this sch following
 the BA or BSc from Mt All or other recog univ
 Dir —L. T Hancock, MA BSW

PINE HILL DIVINITY HALL, Halifax (tel. 3-6939) Founded in 1820 as a Presbyterian theol coll, is now under United Church of Canada. Students who receive the BA of Mt All and include certain specified courses may qualify for the BD (awarded by Pine Hill) in 2 further yrs at Pine Hill. Principal—Very Rev C M Nicholson, BA DD LLD

PRINCE OF WALES COLLEGE, Charlottetown, PEI (tel. 7319) Founded in 1860. Students holding 3rd or 4th yr certs from the coll are accepted with advanced credits in the 2nd or 3rd yr in arts or sci at Mt All. Principal—F Mackinnon, MA PhD

GENERAL INFORMATION

Mt Allison Wesleyan Academy for young men was founded in 1840. Charles F Allison of Sackville, NB, gave the site and bldgs plus an annual support for 10 yrs. A parallel institution for girls, 'The Female Branch of the Male Academy', later known as Mt Allison Ladies Coll, began work in 1854. In 1858, an instn with the title of Mt Allison Wesleyan Coll was granted by the NB legislature power to confer degrees and in 1913 its name was changed to Mt Allison Univ. (The name of the univ is derived from the founder's name and the location, the univ is situated on a hill-top overlooking the Tantramar marshes which stretch for miles around.)

Instrucn in theol subs began in 1860 and in 1903 the McClellan Sch of Appl Sci was opened. As the univ grew the function of the Academy and the Ladies Coll gradually diminished (some of the courses taught at the Ladies Coll—music, fine & appl arts, home econ—were absorbed into the curriculum of the univ in 1936) and these two instns were suspended in 1953 and 1946 respectively to provide more space for the rapidly growing univ.

Mt Allison was a pioneer in the higher educn of women. It conferred, in 1875, the first BSc granted to a woman in the British Empire and, in 1882, the first BA awarded to a woman in any Canadian univ.

Originally founded by the Methodist Church, Mt Allison, after the church union of 1925, came under the sponsorship of the United Church of Canada. It is conducted on a non-sectarian basis.

CONSTITUTION The direct govt of the univ is vested in a bd of regents and a senate, and the general council of the United Church exercises a controlling influence on the affairs of the univ through the power of appointing a majority of the regents. The general management of affairs is entrusted to the bd of regents. The bd. consists of 44 members, 24 apptd. by the general council of the United Church of Canada and 20 reps. of the federated alumni. The senate is a composite body consisting of members of the fac. of the univ, and 12 regents appointed by the bd. It is charged with the duty of regulating the strictly educnl concerns of the univ. In its internal admin the univ has always been conducted on strictly non-sectarian principles.

INCOME (1960) \$1,527,729 (govt grants, 24 per cent, tuition & general fees, 30 per cent,

endowment, 6 per cent, ancillary enterprises incl boarding debts, 40 per cent.)

FACULTIES AND DEANS See p 261

LIBRARY. 90,000 vols., incl valuable private collections

ADMISSION See Appendix III. Overseas students certs equated in terms of jr matric. Special students and auditors admitted to classes.

FIRST DEGREES 4 yrs from jr matric—BA pass, hons, BA with secretarial cert, BCom pass, hons, BSc pass, hons, BSt in home econ., BA with major in music, BFA (bachelor of fine arts) 3 yrs from jr matric and N.B. Teachers' Coll—BT (bachelor of teaching) For the BA degree 20 full credit courses, incl 1st and 2nd yr required courses and 10 electives in the 3rd and 4th yrs., with a major in 1 field and a minor in a related field, must be completed. Hons courses in accounting, biol, chem, econ, Engl, French, geol, hist, Latin, maths, philos, phys, psychol., Engl & hist, Engl & philos, Engl & Greek, Engl & Latin, Latin & Greek, Greek & philos.

Partial requirements for degrees may be completed by external students, but a yr in residence is required for all degree candidates.

HIGHER DEGREES At present graduate work is offered in depts of chem, classics, educn, Engl, hist and philos.

BEd, 1 yr. after BA, BCom or BSc, **MEd**, 1 yr after BEd; **MSW** (master of social work), 2 yrs in Maritime Sch of Soc Work (see above) after BA or BSc.

MA or MSc, awarded after 1 to 2 yrs' grad. study beyond BA or BSc with hons, 1 yr of resident study is required with exam and thesis. Open to grads of other univs.

HONORARY DEGREES LLD, DCL, DLitt, DMus, DD, DSc.

CERTIFICATES (from jr matric) Engin, 3 yrs, EdDip, 3 or 4 yrs. The cert in engin enables students to complete a degree course in engin at N.S.T.C., McGill, Queen's and other univs after a further 2 yrs. Secretarial cert can be taken only with BA (see above).

RESEARCH Sociol. study of role of family, small group in causality of delinquency; study of soc class differences in use of mass media. Phys shell-model calculations in nuclear phys. Biol local bog pollen analysis. Chem. cycloalkylation of benzene and alkylbenzenes with alkyl halides.

and olefins, rearrangements of branched condensed hydroaromatic ring systems, the tertiary butylbenzenes-preparation and reactions of sterically hindered derivatives, some mechanistic studies of hydrolysis of glycosides

STUDY LEAVE Marjorie Young Bell fund provides for study leave for sr members of staff

FEEs Tuition: arts, \$400; sci, \$425; comm, \$410; educn, \$400, home econ, \$440, music, \$465, fine arts, \$525, engin, \$475, postgrad yr, \$375. Fees incl lab. fees, registration fee, concert and lecture series, rink, gymnasium, library, health services and insurance

ACADEMIC YEAR Mid Sept-mid May 2 terms of 15 wks each

RESIDENCE Accommodations available for 530 men and 400 women Bd and room (furnished) \$550 p a Trueman House, sr residence, accommodates for 195 men; Bennett House, Bigelow House, Hunton House, accommodates for 314 men, Palmer Hall, 80 women; The Cottage, 20 women, Allison Hall, 300 women Ortona Hall and Normandy Hall, 16 apartments each, for married students and their families, rent, \$45 p m

EXTENSION DEPT A limited number of evg courses for credit are offered and a short winter series of popular lectures is given by members of regular univ staff Correspondence work is offered in some 1st and 2nd yr courses. Other sp programmes incl. a summer inst on a sp topic, United Nations Summer Sch, summer art workshop and local centre music teachers' course Mt Allison univ forum, a public discussion of affairs, is broadcast over 8 privately owned radio stations in the Atlantic provinces

SUMMER SCHOOL The maritime summer sch, July 4-Aug 15, is a regular session of the univ Half courses are offered towards degrees and certs which must be completed at a subsequent session of summer sch or through the extension dept Registration for univ credit is limited to 3 half courses

SCHOLARSHIPS. A number of entrance and

course scholps are available each yr, Lord Beaverbrook entrance scholps. (\$600 p a for 4 yrs), 24 Herbert S Sharp scholps (\$500 p a) and 5 Bennett scholps (\$500 p a) Other substantial scholps are the Shawinigan (in chem), the Inco, the Union Carbide Canada, the Partenon (in mining engin), the O E Smith scholps, the Dennis memorial and others. Lord Beaverbrook postgrad scholps are available annually

MOUNT ALLISON FEDERATED ALUMNI. The federation elects 20 of the 44 members of the bd of regents, 5 each yr to serve 4 yrs.

NATIONAL DEFENCE TRAINING Male students who enrol in the Canadian officers' trg corps (C O T C.) take a course of trg designed to qualify them as commissioned officers in the Canadian army The univ naval trg div. (U N T D.) offers a 4-yr course at regular service rates of pay and, on successful completion of the course, admission into the Royal Canadian naval reserve as a sub-lieutenant The Royal Canadian air force offers courses for short service commission officers in the R C A F aircrew list and univ summer trg scheme as well as other trg and employment schemes

HOSPITAL AND HEALTH SERVICE. Includes phys. exam with chest X-ray at registration 2 hospital units on campus with grad nurses in charge and a physician in attendance A small fee included in the general fee contributes to the cost of this service

STUDENTS' REPRESENTATIVE COUNCIL Elected by student body, in charge of student activities and liaison with univ admin and public

SPORTS FACILITIES include a large playing field, a gymnasium and swimming-pool, tennis courts and a large modern artificial ice rink

PUBLICATIONS. *Calendar* (April), prospective student leaflet, *Argosy* (students), weekly, *Mount Allison Record* (alumni), quarterly; the *Wood Lectures* (occasionally), pamphlets and leaflets, *Allisonian* (students'), yearbook

Two BOOKSHOPS on campus

THE YEAR 1960

PRINCIPAL BENEFITATIONS For endowment \$160,000; for new bldgs \$266,489 (Total value of all benefactions received, \$426,489)

MAJOR BUILDING DEVELOPMENTS Bldgs approaching completion athletic centre and swimming-pool

RETIREMENTS Prof J. G. Wright (engin.)

RESIGNATIONS. Prof F. W. Burd (psychol), apptd to W. Ont., Dr H. McAndrew (maths.), Dr J. R. Perrin (comm.)

HONORARY DEGREES. LL.D.—D. A. Jonah, librarian, G. S. MacKenzie, geologist; Laura C.

Pepper, nutritionist DD—W. L. Langille, clergyman, F. R. Matthews, clergyman DSc—J. P. Hagen, scientist

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time	External
Men	707	2	194
Women	461	8	267
Total	1168	10	461

Distribution by Faculties *Arts* (incl comm.,
educn, fine and appl art, music, theol), 710,
sci (incl engin and home econ), 468 Total
1178

Included in the figures above are —

Postgraduate students, 3

New admissions, 453

Students from other countries, 74 (Countries
from which largest numbers came. W. Indies
Fed, 34, Hong Kong, 14, U.S.A, 19)

DEGREES AWARDED (1959-60) *Arts* BA, 70,

BA & secretarial cert, 15, BCom, 27, BT, 2,
BED, 30, BFA, 5, MusBac, 3, MSW, 1 *Sci*
BSc, 36, BSc in home econ, 8, MSc, 3

DIPLOMAS AWARDED (1959-60) AssocMus, 4,
JrDipEd, 2, SrDipEd, 3

CERTIFICATES AWARDED (1959-60). Engin, 41,
fine arts, 5, appl arts, 7, secretarial, 15, class
'D' French, 3, class 'C' French, 2 Hons *
acctg, 2; biol, 3, chem, 3, econ, 1; Engl, 1,
Engl & philos, 1; Greek & philos, 1, hist, 2,
maths, 1, philos, 1, phys, 3, psychol, 1

* A student on an honours course is given an honours cert in addn to his degree dipl. These certs are not
awarded independently of the degree dipl.

MOUNT SAINT VINCENT COLLEGE

Chartered 1925

Postal Address Halifax, Nova Scotia, Canada

Cables and Telegrams Mount Saint Vincent College, Halifax, Nova Scotia

Telephone : Halifax 5-5441

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LIBRARIAN—Sister FRANCIS DOLORES, BA MLS Tor

BURSAR—Sister MARIA REGIS, MCS Boston

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Art History

Sister Marie Florette, BA Dal., MA Laval
Asst. Prof.

Biology

Sister Mary Lua, BA St John's (N.Y.),
MSc G.U.A. Assoc Prof, Hd of Dept
Wainwright, Lillian, MA PhD Cal Lectr

Chemistry

Sister Mary Evelyn, BA Dal , MA Tor ,
PhD G.U.A. Prof, Hd of Dept
Sister Ernestine Marie, AM Vassar,
EdD Boston Asst Prof

Classics

Van Ginkel, H., DLL Ley., LittHumDoct Amst.
Prof, Actg Hd of Dept

Economics

Sister Ellen Francis, BA MCS Boston,
BSc Assoc. Prof
Sister Mary Fabian, BA Dal , MA
Gonzaga Asst Prof

Education

Sister Mary James, MA PhD Fordham
Prof, Hd of Dept
Sister Maria Catherine, MA Fordham
Assoc Prof
Sister Anita Margaret, BA MEd Boston Coll.
Asst Prof
Sister Maria Caritas, BA St. John's (N.Y.) Instr

English

Sister Marie Agnes, MA Dal., PhD Fordham
Prof., Hd of Dept
Sister Alice Michael, BA Dal., MA
PhD St John's (N.Y.) Asst. Prof.

Usniani, Renate, AB Hobart(N.Y.),

AM Harv Asst Prof
Sister Stella Beichmans, BA Boston Coll Instr
Sister Jane Miriam, MA St John's (N.Y.) Instr

French

Sister Rose Celestine, MA Dal , PhD Fordham
Prof, Hd of Dept.
Sister Marie Florette, BA Dal , MA Laval
Asst. Prof.
Stanford, Janice T , BA Conn , MA Yale
Asst. Prof

History

Sister Francis d' Assisi, MA Dal., PhD Fordham
Prof, Hd of Dept.
Van Ginkel, H , DLL Ley , LittHumDoct Amst
Prof.
Pudymatus, O , MA Dal Lectr

Home Economics

Sister Elizabeth Clare, MSc Simmons,
BSc Prof, Hd of Dept
Sister Joseph Maria, MSc Corn Instr
Johns, Dorothy J., BSc Mt All Lectr

Humanities

Usniani, Renate, AB Hobart(N.Y.),
AM Harv. Asst Prof

Mathematics

Sister Anna Gertrude, BA Dal , MA St F X.
Assoc. Prof., Hd of Dept.

Music

Sister Cecilia Margaret, BMus Tor Instr
Underwood, C. Lectr.

Nursing Education

Sister Margaret Edward, BA *Ott*
 Dir of Nursing Educn.
 Grady, Lillian, MSc NEd *St Louis* Instr.

Philosophy

Sister Frances Carmel, BA *Dal*, MA PhD *Tor*,
 LMS *Pontif Inst., Tor* Prof., Hd. of Dept
 Monahan, A. P., MA PhD *Tor*,
 LMS *Pontif Inst., Tor*, Asst Prof

Secretarial Studies

Sister Ellen Francis, BA MCS *Boston*,
 BSc Assoc Prof., Hd. of Dept
 Sister Ann Fintan, BSc Instr.

Medical Secretarial Studies

Miller, J E H., MD CM
 (Cln. Procedures) Lectr
 Brennan, M D, MD (Med Terminol) Lectr

Sociology

Sister Mary Fabian, BA *Dal.*, MA *Gonzaga*
 Asst Prof
 Sister Louise Adelaide, BA Instr

Physical Education

Gunter Buchta Instr.

ASSOCIATED INSTITUTION

HALIFAX SCHOOL OF JOURNALISM, Mt St Vincent Coll, Halifax, N S (tel 5-5441) The sch is a jr undertaking of Mt St Vincent Coll, the Univ of King's Coll, St Mary's Univ, the Halifax *Chronicle-Herald* and radio station CJCH

The sch, which has its own bd of governors with 2 reps from each instn, grants a dipl in journalism 3 yrs after jr matric Dean—R. J McCleave, BA LLB

GENERAL INFORMATION

Mount St Vincent Coll is conducted by the Sisters of Charity and is the only women's coll in Canada empowered to confer degrees. The foundation and devel of the coll is closely bound up with Mount St Vincent Academy, an instn established in 1873. To meet the demand for higher educn for women, coll courses were introduced into the curriculum in 1914 by an arrangement with Dalhousie Univ. The charter was granted in 1925 by the legislature of the province of N S. A new bldg houses residence accomm, admin offices, lecture rooms and labs, as well as separate wings for chapel, library, home econ dept, gymnasium-auditorium and music dept. Exceptionally fine collection of mineral specimens.

CONSTITUTION. The bd of governors, the governing body of the coll, is composed of the Mother General of the Community of the Sisters of Charity and her assts, plus the pres of the coll. The chief executive officer is the coll pres, who is assisted in her admin duties by the dean and the registrar.

INCOME (1960), \$279,802. (Principal sources: govt grants, 33.2 per cent.; fees, 38.8 per cent.; endowments (incl benefaction of Sisters of Charity), 24.9 per cent.; misc, 3.1 per cent.)

FACULTIES. Arts, educn, home econ, music, nursing, radiol, technol, sci.; secretarial studies. Dean of Studies—Sister Frances Carmel, PhD

LIBRARY. 52,000 vols. Reading room. Rare books room houses the MacDonald collection (1st edns, rare bindings, 10,000 vols). Separate professl libr & reading room for educn dept

TEACHING HOSPITAL. Halifax Infirmary sch of nursing provides trg sch for students in degree nursing course, as well as internship for degree students in radiol technol and recognized dietitians in Canadian dietetics assocn.

ADMISSION See Appendix III

FIRST DEGREES. 4 yrs after jr matric—BA, BMus, BSc, BSc in nursing, BSc in radiological technol, BSc in home econ, BSc in secretarial studies, BSc in elem educn. For BA, majors may be taken in classics, Engl., hist., mod. langs., philos., soc scis., for BSc, in biol. or chem. Hons. may be awarded for merit shown during course.

Late afternoon and Saturday credit courses leading to the various degrees are offered by the coll, also 6-wk summer sch in July-Aug. A full yr of residence is required for the award of any degree.

HIGHER DEGREES. 1 yr after BA—BED and high sch teacher's licence granted by provincial dept of educn, 2 yrs after corresponding bachelor's degrees—MA in arts or in educn.

DIPLOMAS. Educn. jr dipl 2 yrs (plus 1 yr. in teacher trg), sr dipl. 3 yrs (plus 1 yr in teacher trg); secretarial studies or med secretarial studies, 2 yrs. with professl trg. after jr. or sr matric.

LICENCE in music (LMus)—2 yrs (first 2 yrs. of BMus course)

FEES. Inclusive fee for bd., residence and tuition, \$850-\$900 p a. Tuition only, \$60 per course. Grad studies, \$70 per course.

EXTRA-MURAL WORK. A limited amount of extra-mural work is done, under the direct supervision of the profs of the various subjs

SUMMER SCHOOL. See under 'First Degrees', above

There are no 'OPEN' POSTGRADUATE AWARDS offered by, or tenable solely at, the coll

RESIDENCE. Accommod. for approx 175

PUBLICATIONS. *Announcements* (annual calendar); *Kappa Kronticle* (students' year book).

THE YEAR 1960

NEW CHAIRS. Humanities studies

RESIGNATIONS. Dr L C Ferrari (phys)

DEATHS. Sister Francis de Sales (retired coll librarian)

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Women only	377	106

Distribution by Faculties. *Arts*, 142, *educn.*, 87; *home econ*, 28, *music*, 4, *nursing sci.*, 31, *secretarial sci.*, 60, *sci.*, 23, *X-ray technol.*, 2
Total 377

Included in the figures above are —

Postgraduate students, 7

New admissions, 170

Students from other countries, 30 (Countries from which largest numbers came: U.S.A., 15, China, 6)

DEGREES AWARDED (1959-60). *Arts* BA, 27
Educn. BEd, 19. *Elem educn.* BSc, 4. *Home econ* BSc, 9. *Nursing sci.* BSc, 2. *X-ray technol.* BSc, 3. *Secretarial sci.* BSc, 12. *Sci* BSc, 4

DIPLOMAS AWARDED (1959-60). DipEd, 3, journalism, 4, secretarial sci, 6; med secretarial sci, 3

UNIVERSITY OF NEW BRUNSWICK*

Established 1785; incorporated by Royal Charter 1828

Postal Address Fredericton, New Brunswick, Canada

Cables and Telegrams UNB Fredericton

Telephone Fredericton GR 5-9471

VISITOR ON BEHALF OF H M. THE QUEEN—The Hon J L O'BRIEN, Hon. LLD, Lieutenant-Governor of New Brunswick

CHANCELLOR—The Rt Hon LORD BEAVERBROOK, Hon DLitt Mt All, Hon. LLD Tor, St. Thomas & New Br, Hon DCL Bishop's

PRESIDENT—C B MACKAY, LLB Br Col, Hon DCL Mt All, LLD Laval & New Br, BA

VICE-PRESIDENT (ACADEMIC)—F J TOOLE, BSc(ChemEng) MSc PhD McG

VICE-PRESIDENT (ADMINISTRATION)—B F MACAULAY, BSc

REGISTRAR—EDITH G MCLEOD, BA

COMPTROLLER—C L MAHAN

LIBRARIAN—GERTRUDE GUNN, PhD Lond, MLS Simmons, MA

DEANS—ARTS—A G BAILEY, MA PhD Tor, BA, FRSCan (Hist), ENGINEERING—J O. DINEEN, MSc (Electr Engin), FORESTRY—J M GIBSON, OBE, Hon LLD Tor, Hon DSc Laval, BSc, GRADUATE STUDIES—W C D PACEY, PhD Camb., BA Tor, FRSCan (Engl); LAW—W. F. RYAN, LL.M. Col, BA BCL, SCIENCE—C. W. ARGUE, CBE, BA BSA Br Col, MS Iowa State Agric, Hon DSc (Biol)

TEACHING STAFF

Biology

Argue, C. W., CBE, BA BSA Br Col, MS Iowa State Agric, Hon DSc Prof
Pritchard, H V., BA Tor, MA W. Ont. Assoc Prof
Taylor, A R., BA PhD Tor Assoc Prof
Anderson, J M., BSc PhD Tor. Asst Prof
Hagmeier, E M., BA Qu, MA PhD Br Col Asst Prof
Roberts, Patricia R., MSc NZ, PhD Duke Asst Prof
2 Hon. Lectrs.

Business Administration

Maher, E D., BA Tor., MBA Penn Fred Magee Prof
Reddin, W. J., MBA Harv, BA Asst Prof
Duclos, G. G., BCom MBA Br Col Asst. Prof
1 Lectr.

Chemistry

Toole, F. J., BSc(ChemEng) MSc PhD McG. Prof.
Wiesner, K., DSc Prague, FRSCan (Org. C) Prof

Semeluk, G P., MSc Alta, PhD Illinois Tech Inst. & Camb Assoc Prof
Stuart, A. P., PhD McG., BA Assoc Prof
Valenta, Z., DiplIng Chem E T H Zitrach, MSc PhD Assoc. Prof.
2 Instrs

Classics

Cattley, R E D., MA Camb Prof
Milham, Mary E., BA Carroll Coll (Wis.), MA PhD Wis Assoc. Prof.
Smith, L C., MA Durh., PhD Lav Asst Prof

Economics and Politics

Smith, W Y., MA Oxon., BA Prof
Whalen, H. J., MA Alta, BA Assoc. Prof.
Levine, A L., BA Alta, MA Tor., PhD Lond Asst Prof.
Sayeed, K. B., MA Madr., BSc Lond., PhD McG Asst. Prof
Earle, J. F., MA W. Ont. Asst. Prof
3 Hon Lectrs

Education

Love, R. J., BEd Tor., MA Prof.
Blue, D C., MA EdB St And. Asst. Prof.

* Member of the Association of Universities of the British Commonwealth

Engineering, Civil

...	Prof
Beattie, I. M., BSc	(on leave) Prof
MacFarlane, H. W., BSc	Assoc Prof
McLaughlin, R. H. B., Bldg E M I. T., MSc	Assoc Prof
Stevens, A. M., MSc	Assoc Prof
Ballance, R. C., DIC, BSc	Asst Prof
Garland, E. C., MSc	Asst Prof
Blanchard, D. G., BSc <i>New Hampshire, ME Calif</i>	Asst Prof
*Konecny, G., MS <i>Ohio</i> , Dipl Ing	Asst Prof
Dring <i>Munich</i>	Asst Prof

Engineering, Electrical

Dineen, J. O., MSc	Prof
Collier, R. J., BSc <i>Alta</i> , MSc	Assoc Prof
Ting, P. C. C., BSc <i>Chekiang</i>	Assoc Prof
Banerji, R. B., BSc <i>Patna</i> , MSc DPhil <i>Cal</i>	Asst Prof
Burridge, R. E., BSc	Asst Prof
Rogers, J. D., BSc	Asst Prof
Scott, R. N., BSc	Asst Prof
Smolinski, W. J., BSc <i>Tor</i>	Asst Prof
Wasson, W. D., SM <i>M I T</i> , BSc	Asst Prof
1 Lectr	

Engineering, Mechanical

Wheatley, E. E., BSc <i>McG.</i> , MSc	Prof
Coleman, F. R., BSc <i>N.S.T.C</i>	Assoc Prof
Hagerman, E. W., BSc	Assoc Prof
Ireton, V. M., BSc <i>Qu.</i>	Asst Prof
Spinney, F. B., BSc	Asst Prof
1 Lectr, 1 Instr	

English

Pacey, W. C. D., PhD <i>Camb.</i> , BA <i>Tor.</i> , FRSCan	Prof
Galloway, D. R., MC, MA <i>Camb.</i>	Assoc Prof
Cogswell, F., PhD <i>Edm.</i> , MA	Assoc Prof
Johnstone, J. K., MA <i>Alta</i> , PhD <i>Leeds</i> , FRSL	Assoc Prof
Donaldson, A. R., MA <i>Lond & New Br.</i> , BA	Asst Prof
Lane, Lauriat, AM PhD <i>Harv</i>	Asst Prof
2 Lectrs	

Forestry

Gibson, J. M., OBE, Hon LLD <i>Tor.</i> , Hon DSc <i>Laval</i>	Prof
Long, H. D. L., MSc <i>McG.</i> , BSc (Silviculture)	Prof
Seheult, L. R., MScF <i>Tor</i> (Logging, For Utilization)	Prof
Brown, N. R., MA <i>W.Ont</i> (For Entomol.)	Prof
Pringle, S. L., MS <i>Calif</i> , PhD <i>Syr.</i> , BSc	Prof
Hilborn, W. H., BScF <i>Tor</i>	Assoc Prof
Van Slyke, A. L., MF <i>Mich.</i> , BSc	Assoc Prof
Sebestyen, Leslie, DiplForEng <i>Sopron</i>	Asst Prof
3 Hon. Lectrs	

Geology

McAllister, A. L., PhD <i>McG.</i> , BSc	Assoc Prof
Hale, W. E., PhD <i>Qu.</i> , MSc (Sir James Dunn Chair)	Asst Prof
Greiner, H. R., MSc <i>Alta.</i> , PhD <i>Yale</i>	Asst Prof
3 Hon Lectrs	

German

Hubener, Jean I., DrPhil <i>Bonn</i>	Prof
Doerksen, G. G., MA <i>Manit</i>	Asst Prof
Fischer, H. E., DrPhil <i>Munich</i>	Asst Prof

History and Anthropology

Bailey, A. G., MA PhD <i>Tor.</i> , BA, FRSCan	Prof
MacNutt, W. S., BA <i>Dal.</i> , MA <i>Lond.</i> , FRHistS	(Hist.) Prof
Chapman, J. K., PhD <i>Lond.</i> , MA (on leave) (Hist.)	Assoc Prof
Young, D. M., PhD <i>Lond.</i> , BA	Assoc Prof
Clark, L. C., BA <i>Manit.</i> , MA <i>Qu.</i> (on leave) (Hist.)	Asst Prof
Bosnitch, S., BA <i>Belgrade</i> , MA <i>McG.</i>	Asst Prof
Earl, D. W. L., BA <i>Qu.</i> , MLitt <i>Camb.</i>	Asst Prof
Pi-Sunyei, O., BA <i>Mexico</i> , MA <i>Harv</i>	Asst Prof

Law

Ryan, W. F., LL.M. <i>Col.</i> , BA Hon BCL	Prof
Sears, J. W., BA BCL <i>Oxon.</i> , BA LLD	Prof
McAllister, G. A., LL.M. <i>Col.</i> , MA BCL	Prof
LaFollet, G. V., MA <i>Oxon.</i> , BCL	Assoc Prof
Hurley, D. M., BA <i>St Thomas</i> , LL.M. <i>Lond.</i> , BCL	Asst Prof
5 Lectrs	

Mathematics

Rosenberg, R. L., DIC, PhD <i>Berl.</i> , MA <i>Cape T.</i>	Prof.
Edwards, L. P., MA <i>Acad.</i>	Prof
Weisner, L., BS <i>N.Y.</i> , AM PhD <i>Col.</i>	Prof
Staal, R. A., MA PhD <i>Tor.</i>	Assoc Prof
Knight, W. R., MA <i>Br Col.</i> , PhD <i>Tor</i>	Asst Prof
Schirmer, Helga H., DrRerNat <i>Fran.</i>	Asst Prof
Whitely, J. N., BSc <i>Rhodes</i> , PhD <i>Lond</i>	Asst Prof
3 Lectrs	

Nursing

MacLaggan, Katherine E., BN <i>McG.</i> , MA <i>Col.</i>	Prof.
Leckie, Irene, BSc <i>Alta.</i> , MSN <i>Wayne</i>	Assoc Prof
McPhedran, Margaret G., BA <i>Tor.</i> , MA <i>Cal</i>	Assoc Prof
Cutler, Ryllis M., BN <i>McG.</i>	Asst Prof
1 Lectr	

Philosophy

Stewart, W. F. M., MA PhD <i>Edm.</i>	Prof
Engel, S. M., MA <i>Manit.</i> , PhD <i>Tor</i>	Asst Prof

Physical Education

Meagher, J. W., BA *Loyola*, BSc *McG*,
MS DEd *Penn* Assoc Prof
Thompson, G. B., BPE *Bt Col*,
MSc *Springfield* Asst Prof
1 Lectr

Physics

Boone, A. E., MA *W Ont*, BSc Prof
Weiner, T., DrPhys *Milan* Assoc Prof
Baker, W. B., MSc *Manit* Asst Prof
Kaiser, R., DrRerNat *Gott.* Asst Prof
McLay, D. B., MSc *McM*, PhD *Br Col* Asst Prof
Edwards, M. A., MSc PhD *W Ont*,
BSc Asst Prof
1 Instr

Politics, see Econ. and Pol.

Psychology and Sociology

Snodgrass, Florence T., EdM *Harv*,
PhD *Yale*, BA (Psychol) Prof
Pullman, D. R., BEd *Alta*, MA
PhD *Tor* (Sociol) Assoc Prof
Parvio, A. V., MSc PhD *McG* Asst Prof
1 Lectr

Romance Languages

McAndrew, W. A. G., BA *Tor*,
DUParis Prof
Harrison, C. D., L&L DenD *Toulouse*,
MA *LaFayette*, Dipl&ScPol *Paris* Prof
Whumster, Mary-Louise, BA *Manit*,
Certd'EtSup *Paris* Assoc Prof
Shaw, A. J., MA *Mich.*, BA *Tor*. Asst Prof.

ADMINISTRATIVE AND OTHER STAFF

Alumni Sec Asst Comptroller
D. G. Sedgewick Dean of Men's Residences
R. H. Grant, BSc Dean of Women Melinda
H. Seaman, MA Dir, Athletics P. C. Kelly

Dir., Art Dir., Music D. V. Start
Dir., Nursing Katherine MacLaggan, BN *McG*,
MA *Col* Supt of Bldgs & Grounds L. A.
Dawson, BSc

GENERAL INFORMATION

Originally established as a provincial academy of arts and sciences in 1785, the Coll of New Brunswick was incorporated in 1800 by provincial charter, re-incorporated in 1828 by royal charter as King's Coll, and again in 1859 as the Univ of New Brunswick.

CONSTITUTION The provincial govt appoints the pres and a majority of the governing body, called the senate, of which the minister of educn and the chief supt of educn for the province are *ex-officio* members. The pres is pres of the corporation and of the fac. The univ council consists of the pres., 6 deans, librarian, athletics dir., nursing dir., 2 members elected from facs. of arts, sci., engin., for, law and from creative arts cttee.

INCOME \$2,011,600 (student academic fees, 34.1 per cent, provincial govt grants, 34.2 per cent, fed govt grants, 22.7 per cent, others, 9 per cent).

FACULTIES AND DEANS See p 269. The fac of law was transferred from St John to Fredericton in 1959.

LIBRARY 100,000 vols. Sp collections: Rufus Hathaway collection of Canadian lit., Visc. Bennett papers, Rt Hon Bonar Law papers, Earl Lloyd George papers, Kipling atlas.

LABORATORIES Biol., chem., engin., for., for biol. (incl federal soil survey lab), geol., phys., psychol., 7000-acre forest tract for forestry field work.

MUSEUMS, ETC Geol. museum; museum of historical documents on early hist of NB; observatory telescope with 6-inch clear aperture.

CREATIVE ARTS CENTRE Provides non-credit courses by well-known artists in painting, drawing and design and sponsors loan exhibitions, concerts and plays throughout yr. There is a resident artist.

ADMISSION. See Appendix III.

FIRST DEGREES 4 yrs. (from jr matric)—BA gen., hons, BSc gen., hons, BPE (phys educn.), BBA (bus. admin.) (2 yrs for approved grads) 3 yrs (from jr matric)—BT, for those who intend to enter elem. teaching (open to students who have obtained 1st class licence after completing satisfactorily 1 yr in approved teacher trg. inst.), industrial (3 yrs open to students who have graduated from NB Tech. Inst. and teachers' trg. div. with 1st class licence) 4 yrs (from jr matric)—BSc in nursing 5 yrs (from jr matric)—BSc in chem., civil, electr., mech. engin., BSc in for.

BA hons. may be taken singly in biol.; singly, or in combination with hons. in another suby., in chem., econ., Engl., French, German, hist., maths., or, only in combination with hons. in another suby., in anthropol. & sociol., educn., pol., philos., Latin, Greek, geol., phys., psychol. BSc hons. may be taken in biol., chem., geol., maths. or phys.

OTHER COURSES. Students who complete a 3-yr course in mining engin. at the univ. may be

admitted to 4th yr of a degree course in mining at other univs.

HIGHER DEGREES. BCL, 3 yrs from BA or BSc. BEd, 1 yr from BA or BSc MEd, MA (in classics, econ., Engl., French, German, hist., pol. sci., psychol.), MSc (in biol., chem., geol., maths, phys.), MSc in for, 2 yrs from corresponding bachelor's degree. MSc in civil or electr. engin., not less than 1 yr from corresponding bachelor's degree. PhD (in chem.), at least 3 yrs from bachelor's degree. All degrees open to grads. of recognized univs.

HONORARY DEGREES. DCL, DLitt, DSc, LL.D.

The univ does not award EXTERNAL DEGREES

RESEARCH. Facilities for postdoctoral res in biol. and chem.

FEES. Tuition, annual: arts, bus. admin., \$360, educn., \$310, engin., \$455, for, \$420, law, \$340, sci., \$390, teaching, \$310, phys. educn., \$335; nursing, \$300. Higher degrees: 1st resident yr as above, each addnl. resident yr. \$25

ACADEMIC YEAR. Two terms: Sept 16 to Dec 20; Jan 4 to May 7. Summer session: July-Aug.

EXTENSION COURSES. BA, BT and BEd degree courses given in Fredericton, St John, and Moncton.

SUMMER SESSION. Instrcn provided in all subsj. for BA, BT and BPE for teachers and others and certain postgrad. courses towards BEd, MA, MSc, MEd; also profess. courses for teachers. The BA, BT, BEd and MA may be taken solely by summer session work. *Summer School Calendar* (March), available on request.

PRINCIPAL 'OPEN' ENTRANCE AWARDS for Canadian students from outside NB who enter the univ to read for a 1st degree: Harold Crabtree memorial scholps (3), \$1000 over 3 yrs, preferably for study of for, Sir James Dunn Foundation scholps (7), \$1500 for 1 yr on entrance to univ fac of law (renewable), engin. special scholps (5), \$4500 over 4 or 5 yrs; Sir George E. Foster scholps (multiple), \$100 to \$1000 per yr (renewable), General Motors scholps. (4), \$800 to \$8000 over 4 yrs (value related to needs of individual), Inco scholp (1), up to \$2800 over 4 yrs (for study of engin., geol., geophys., metall., mining, or maths & phys.), Industrial Acceptance Corp scholp (1), \$1000 over 2 yrs (for study of bus. admin.), Steel Co of Canada scholp (1), \$2000 over 4 yrs, I O D E bursaries (12), \$1600 over 4 yrs, Union Carbide Canada Ltd scholps (4), \$2500 over 4 yrs.

PRINCIPAL 'OPEN' POSTGRADUATE AWARDS tenable at the univ: Beaverbrook U.K. scholps (5),

4 of \$1500 p.a. in for & 1 of up to \$2500 p.a. in chem., for grads from U.K., Sir James Dunn scholps (3), \$1000 for 1 yr, open to grads of Canadian univs for postgrad. study & res in geol., DuPont of Canada scholp (1), \$1500 single, \$2100 married, for trg. as secondary sch. sci. or maths teacher, Imperial Oil res. fellowships (5), \$4800 over 3 yrs, open to grads of Canadian univs for res. leading to PhD in bus. admin., chem., econ., engin., Engl., geol., hist., mod. langs., philos., phys., psychol., sociol., Shell Oil fellowship (1), up to \$1800 for 1 yr, open to grads of Canadian univs in sci. or engin.

PLACEMENT BUREAU assists grads. and undergrads. to obtain pt-time, vacation and permanent employment.

GRADUATES ASSOCIATIONS. Associated Alumni of the univ.

STUDENT RESIDENCES (for deans, see 'Admin. and Other Staff', p. 271). Men—5 residences and 2 dining-halls provide on-campus accomm. for 485 students (fees \$600-\$630 p.a.), Lady Beaverbrook's Bldg (85), Arken House (100), Jones House (100), Neville House (100), Neill House (100). Additional facilities now in planning stage will provide grouping of 8 bldgs. with accomm. for 885 men, 2 new residences for men, to accomm. 100 students in each unit, should be ready for use in 1962. Women—residences consist of 5 bldgs. (incl. dining-hall in central unit) with accomm. for 150 women (fees \$550-\$575 p.a.), Maggie Jean Chestnut House, Agnes Foster House, Florence Murray House, Mary K. Tibbitts House, 1 other unit. A new on-campus residence is being planned to accomm. 200 women initially and 400 ultimately.

MILITARY TRAINING. Canadian officers trg. corps; univ. naval trg. corps, univ. naval trg. div.; Royal Canadian air force div.

STUDENT HEALTH. Tuberculosis survey of students each autumn.

STUDENTS REPRESENTATIVE COUNCIL has complete jurisdiction over all student affairs. MEMORIAL STUDENT CENTRE houses offices of S.R.C., Alumni Assoc., student clubs and organizations and contains common-rooms and cafeteria.

ATHLETIC FACILITIES. Gymnasium, swimming-pool, ice-rink, 2 athletic fields.

PUBLICATIONS. *Calendar* (April); *Summer School Calendar* (March), *Memorial vol.* in commemoration of 150th anniversary; students' *Bunsen* (weekly), *Fiddlehead* (poetry), *Inter-Val* (short stories & poetry); *Up the Hill* (student yearbook).

UNIVERSITY BOOKSTORE.

THE YEAR 1960

PRINCIPAL BENEFACTIONS. Bldg. fund, private and corporate donations, \$868,000.

MAJOR BUILDING DEVELOPMENTS. Bldgs. completed: arts bldg., biol. and phys. bldg. *Ap-*

proaching completion 2 men's residences, dining-hall

RETIREMENTS Mrs Marjorie Thompson (librarian), Lucy Jarvis (dir of art)

RESIGNATIONS J E Oyler (German), apptd to Alta, H E Lushei (German), to grad study in Germany, A P Langlois (civil engin), apptd to Suiveyor & Chenevert, consulting firm in Montreal

DEATHS Prof G. S MacKenzie (geol), A F Trythall (dir of music)

HONORARY DEGREES. *LLD*—Sir Alec Martin, chairman, bd of Wallace Art Gallery, govr, National Gallery of Ireland, W G Roberts, Canadian artist, I Lussier, rector, Monti, L J Robichaud, premier, prov of New Brunswick, Mrs Phyllis G Ross, wife of former lt-govr of British Columbia *DCL*—A L Rowse, fellow of All Souls, Oxford, author and lectr, M Schlesinger, prof of hist, Harv, sp. asst to pres of USA *DLitt*—H N Frye, principal, Victoria Coll, Tor

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1571	777
Women . .	276	725
Total	1847	1502

Distribution by Faculties, etc *Arts*, 1895; *bus admn*, 136, *educn*, 14; *engin*, 678, *for*, 192, *law*, 32, *nursing*, 59, *phys educn*, 126, *sci*, 217 Total: 3349.

Included in the figures above are—

Postgraduate students, 85

New admissions, 547

Students from other countries, 113. (Countries from which largest numbers came: U S A., 30, China, 23, W Indies Fed, 17, U K, 13)

DEGREES AWARDED (1960-61) BA, 42; BA (hons), 11, BPE, 20, BT, 1, MA, 2, BCL, 1, BSc, 22, BSc (hons), 10, BBA, 18, BScinCE, 53, BScinEE, 28, MScinEE, 1, BScinMechE, 18, MScinMechE, 1, BScinFor, 20, MScinFor, 3, BEd, 15, BEd (hons), 1, MEd, 1; PhD, 2 *Total number of first degrees awarded*, 243.

NOVA SCOTIA AGRICULTURAL COLLEGE

Founded 1905

Postal Address Truro, Nova Scotia, Canada

Cables and Telegrams Nova Scotia Agricultural College, Truro, Nova Scotia

Telephone Truro 467

PRINCIPAL—K COX, BSA Tor, MSA McG

VICE-PRINCIPAL—J E SHUH, BSA Tor., MSc McG

REGISTRAR AND DEAN OF RESIDENCE—P COX, BA Acad., MA Tor

LIBRARIAN—I M FRASER, BSc Dal

BUSINESS MANAGER—R F MACLEWAN

SECRETARY—ISABEL DAVIDSON

TEACHING STAFF

Agricultural Engineering

Mulligan, D C., BSc(Agr) McG.
Henry, C. E., BSc(Agr) McG
MacNevin, M C., BSc(Agr) McG
Townsend, G E., BSc(Agr) McG

Agronomy

Cox, K., BSA Tor, MSA McG.
Shuh, J E., BSA Tor., MSc McG
Slater, D T., BSc(Agr) MSc McG
Mahoney, J F., BSc(Agr) McG, MSA Tor.

Animal Husbandry

Curtis, S. L., BSA Tor., MSc Mass, PhD Minn.
Cook, L. M., BSc(Agr) McG, MSc Wis
Cox, D S., BSc(Agr) McG
Huggard, R. J., BSc(Agr) McG.

Apiculture

Karmo, E. A., BSc(Agr) Tartu

Botany and Bacteriology

Roland, A. E., BA Acad., MA Tor, PhD Wis.
Palfrey, G. D., BSc(Agr) McG.

Chemistry

Smith, G R., MSc Dal., PhD McG.
Mulligan, J. E., BSc(Agr) McG.
Langille, W M., BSc Acad., MSc McG.
Hilchey, J D., BSc(Agr) MSc McG.
Booker, J R.

Co-operation, Rural Sociology

Scammell, F. E., BSc(Agr) McG.

Dairying

Murray, T A., BSA Mant.

Economics, Farm Management

Jenkins, W A., BSc(Agr) McG,
MSc(Agr) Conn
Grant, W V., BSc(Agr) McG, MSc Conn
Byers, D M., BSc(Agr) McG

English

Cox, P., BA Acad., MA Tor.

Entomology

Neary, M. E., BSc(Agr) McG.
Vickery, V R., BSc(Agr) MSc McG (on leave)

Forestry

Hoisbough, R. L., BSc(Agr) McG.
Maybee, G R., BScF New Br.

Horticulture

Collins, C. M., BSA McG, MSA Tor.
Jankov, N V.
Kinsman, G B., BSc(Agr) McG,
MSc New Hampshire
MacLaughlin, H A. L., BSc(Agr) McG.,
MSc Conn

Mathematics and Physics

Fraser, I M., BSc Dal

Poultry

MacDonald, D. R., BSc(Agr) McG.

Veterinary Science

Hancock, E. E. I., DVM Tor.

GENERAL INFORMATION

Founded in 1905 Successor to Sch. of Agric. and Sch. of Hortic

The coll. is fully supported financially by the province of Nova Scotia. The majority of the teaching staff are also members of the staff of the dept. of agriculture and marketing of the province in which the control of the coll. is vested. Staff members do not have academic titles (such as Prof or Lectr.).

FACILITIES Main bldg, science bldg, hortic. bldg (with greenhouses), dairy bldg, agric. engin. bldg, dormitory and 300-acre farm

ADMISSION See Appendix III.

DEGREE COURSE Students who enrol for the degree course complete (after jr. matric.) the first 2 yrs. of the 4-yr. course at the coll. and receive a dipl. Then 3rd and 4th yr. studies are completed at the instn. of their choice, e.g. Macdonald Coll.

or the Ontario Agric. Coll. Students who have completed the 2-yr. course are admitted to the 2nd yr. at Ontario Vet. Coll.

DIPLOMA COURSE 2-yr. farm course, vocational in nature and not requiring matric. Instrucn. in elementary sci., practical subj. and citizenship

FEES. Tuition—Canadians free, non-Canadians, \$50 p. a. Other fees—\$39 to \$44 p. a.

ACADEMIC YEAR Degree course mid-Sept. to late April or early May, farm course mid-Oct. to late April or early May

STUDENTS' COUNCIL, of which all students are members, has its affairs administered by an elected executive, fac. members serve as advisors. Controls all student business

PUBLICATIONS. By the coll.: *Calendar* (annual). By the students' council: *Agricola* (Year Book)

THE YEAR 1960

RESIGNATIONS P. Y. Hamilton (animal husb.), apptd. to staff of CBC, R. H. Stevenson (maths & phys.), apptd. to Truro Sr. High

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	126	—
Women	6	—
Total	132	—

All students in fac. of agric.

Included in the figures above are —

Postgraduate students, nil

New admissions, 71

Students from other countries, 3 (Country from which largest number came W. Indies Fed., 2)

DIPLOMAS AWARDED (1959-60) DipAgric, 38

NOVA SCOTIA TECHNICAL COLLEGE*

Founded 1909

Postal Address · Halifax, Nova Scotia Canada
Cables and Telegrams · N S. Tech, Halifax, Nova Scotia
Telephone Halifax 422-9651

CHAIRMAN OF THE BOARD OF GOVERNORS—R. L. STANFIELD, Minister of Education, Province of Nova Scotia

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TEACHING STAFF

[† = Part-Time]

Chemical Engineering

Foran, M. R., MSc Sask, PhD McG, MEIC
Prof, Hd of Dept
Harris, J. J., BSc Lond (on leave) Asst Prof
Steeves, A. E., BSc Mt. All., MSc McG., MEIC Asst. Prof
† Lectr.

Civil Engineering

Meyerhof, G. G., PhD DSc Lond, MEIC
Prof, Hd of Dept
Mazur, S. J., DiplIng Luow, DIC, PhD Lond, MEIC Assoc Prof
Vaughan, V. E., MSc Maryland, BE, MEIC Asst. Prof
Hamilton, P. C., BSc, MEIC Asst. Prof
Potyondy, J. G., DiplIng Bud, ME Asst. Prof
Guppy, E. A., MAsC Tor Asst. Prof

Electrical Engineering

Burchill, G. H., BSc Hon Deng, MEIC
Prof, Hd of Dept
Vail, G. F., CD, MAsC Tor, BE, MEIC Assoc Prof
Grant, C. E., MEIC Asst. Prof
Duggan, K. F., BE Asst. Prof
Lindsay, J. F., BSc Glas. Asst. Prof
Callaghan, C. J., BE Asst. Prof
Bates, C. P., ME Asst. Prof

General Studies

Heaps, H. S., BSc Manc., MA Tor.
(Engin. Maths) Assoc. Prof.
Jackson, F., BSc Lond. (Engin. Maths.) Lectr
Jones, R. O., MD CM Dal (Appl. Psychol.) † Lectr
MacCormack, J. R., MA Dal (Contemp. Affairs) † Lectr.
Heaps, Miss Doreen, BA Dal, MA Br Col (Tech. Lit.) † Lectr

Mechanical Engineering

Baker, M. L., BSc, MEIC Prof, Hd of Dept
Cochranoff, O., BASc Br Col, MAsC Tor Assoc. Prof
Ahern, W. K., BE Asst. Prof.
Cliffe, J. B., BSc Mamt Asst. Prof
Wainer, J. L., SM M I T, BE Asst. Prof
Weld, G. B., MEng Sheff., BE Asst. Prof

Mining and Metallurgical Engineering

Cameron, E. L., MEng McG, MEIC
Prof, Hd of Dept
Knop, O., DSc Laval Assoc. Prof.
Collins, G. A., DIC, MA Wash., MEIC Asst. Prof
Aletan, G., DiplIng Berl., DiplIng Clausthal Asst. Prof.

ADMINISTRATIVE AND OTHER STAFF

Placement Officer & Alumni Sec J. B. Ternan, BE, MEIC.

* Additional Member of the Association of Universities of the British Commonwealth

ASSOCIATED UNIVERSITIES

ACADIA, DALHOUSIE, MEMORIAL (NEWFOUNDLAND), MOUNT ALLISON, ST FRANCIS XAVIER, ST. MARY'S and NEW BRUNSWICK (see separate entries) Students who have completed the 3-yr course in engin of one of these univs may be

admitted direct to the 4th yr of a degree course in engin at the coll. Students who have completed the first 2 yrs of the engin course will be admitted to 3rd yr archit upon recommendation of their dean of engin

GENERAL INFORMATION

The Nova Scotia Technical College was authorized by an act of the provincial legislature in April 1907.

The erection of the main bldg proceeded during 1908 and the coll. was opened, with courses in civil, elect., mech. and mining engin, in the autumn of 1909. The 1907 act relating to technical educn. was repealed in 1947 and two new acts were passed by the provincial legislature placing engin. educn and secondary technical educn under separate heads. Thus the coll now confines its activities to work of univ level only. Under the new N S T C Act authority was given for the establishment of grad studies and res., and provision was made for close co-op between the coll and the NSR Foundation. A further expansion in 1947 was the addition of the dept of chem and metall engin. In 1953 the dept of metall engin was transferred to the jurisdiction of the dept of mining engin, thus becoming the dept of mining and metall engin. In 1961 the coll added a sch. of archit, the first degrees in this field will not be granted until 1965.

CONSTITUTION The coll is governed by a bd of governors under the chairmanship of the minister of educn of NS, a senate under the chairmanship of the pres of the coll., and the fac under the chairmanship of the pres. In general the fac reports to the senate, and the senate reports to the bd of governors on all matters pertaining to the operation of the coll, and the bd reports annually to the lt-governor in council. The associated univs are represented on the bd. by their presidents and on the senate by the hds of their respective depts of engin.

INCOME (1959-60) \$437,104 (prov of NS, 52 per cent, govt of Canada, 15 per cent, fees, etc, 33 per cent)

COLLEGE PRECINCT The coll campus is located near the centre of Halifax on Spring Garden Rd and Barrington St. The present plan of devel is to bring as many as possible of the individual depts. under one roof.

LIBRARY 16,000 vols.

LABORATORIES Chem, civil, electr., mech., metall. and mining engin

ADMISSION. See 'Assoc Univs' above and Appendix III

Advanced Standing. Any person may be admitted to advanced standing in the coll by passing such exams as are deemed necessary

by the coll fac, or by presenting such certs of previous records of study or experience as shall satisfy the fac

Special Students Persons without the necessary entrance qualifs. may be permitted to take a limited no. of regular courses for which no credit towards a degree will be granted.

FIRST DEGREES BE, BE with distinction, BE hons (chem, civil, electr, mech, metall, mining), 2 yrs, after 3 yrs at assoc univ (see 'Assoc Univs' above and Appendix III).

HIGHER DEGREE ME, 1 yr full-time or 3 yrs. pt-time, open to grads with high scholastic standing from recog engin degree-granting instns

HONORARY DEGREE. DEng

RESEARCH Facilities available for res up to level of master of engin degree in most fields of chem, civil, electr, mech, metall and mining engin. Annual Report lists res. in progress.

STUDY LEAVE No regular practice, but staff members are granted leave of absence after a no. of yrs' service to pursue further studies. In such cases the coll makes financial arrangements with the individuals concerned.

GENERAL FEES Tuition, \$425 p a; grad studies, \$125; spring courses, \$50, students' soc, \$25 p a

ACADEMIC YEAR Sept. to May. 2 terms of 14 wks each

PRINCIPAL 'OPEN' AWARDS (undergraduate) American Soc. for Metals, \$500, Internat Nickel Co, \$1200; Aluminum Co. of Canada, \$600, Northern Electric scholp, \$500, N.S. Road Builders Assoc. bursary, \$200, Coll. loan fund to max of \$500 p a.

PLACEMENT SERVICE, operated through the registrar's office, is available to students and alumni.

ALUMNI ASSOCIATION is composed of hon and active members. Governing body is an executive cttee elected by the annual meeting in Nov Bldg. fund cttee apptd. by the assocn. is at present completing drive for \$300,000 to build a gymnasium on campus

MILITARY TRAINING The Joint Services Try Scheme was introduced in 1946. The programme extends over 3 yrs. and consists of a series of

lectures during the coll yr followed by from 12 to 22 weeks posting at a trg sch during summer vac. The summer trg is taken in the sp branch of the service selected by the trainee, who is recruited at an assoc univ and completes trg at N S T C. Under the *Regular Officer Trg Plan* students may apply for enrolment in the regular forces of any service. The dept of natl defence pays candidates' fees and candidates are also paid while at the coll; they agree to serve for min of 3 yrs.

STUDENTS' SOCIETY. The recognized means of communication between the fac and the student body. It is designed to co-ordinate and control all extra-curricular student activities. Every student is a member.

PHYSICAL TRAINING Gymnasium

PUBLICATIONS *Calendar* (spring), *Report* (annual), *Tech Flash* (yearbook), *Alumni Bulletin* (4 edns p a)

THE YEAR 1960

NEW DEPARTMENTS AND CHAIRS Sch of archit (to give last 4 yrs of 6-yr course)

RETIREMENTS Prof J W March (civil engin).

RESIGNATIONS J Hoogstraten (pres), apptd vice-pres on development, Manit, D Biggar (civil engin), to private practice, D A Redmond (librarian), to sci librarian, Kansas

HONORARY DEGREES *DEng*—Rev W E Jefferson, former chief engineer, Maritime Telegraph & Telephone Co. Ltd, Granville Ferry, NS, J R Kaye, sr partner, Engin Service Co, Halifax, NS

Statistics

STUDENT NUMBERS, 1960-61

	<i>Full-Time</i>	<i>Part-Time</i>
Men	312	3
Women	2	—
Total	314	3

All students are in fac of engin

Included in the figures above are —

Postgraduate students, 9

New admissions, 139

Students from other countries, 32 (Countries from which largest numbers came: Hong Kong, 7, Indonesia, 6, U.S.A., 6)

DEGREES AWARDED (1959-60). BE(Civil), 35, BE(Electr), 42, BE(Mech), 23, BE(Mining), 4, BE(Metall), 3, BE(Chem), 12, BE(Civil), hons, 4, BE(Electr), hons, 3, BE(Mech), hons, 2, BE(Chem), hons, 2, ME, 5. *Total number of first degrees awarded by N S T C, 130*

UNIVERSITY OF OTTAWA*

Founded 1848, incorporated as a University 1866

Postal Address: 75 Laurier Avenue East, Ottawa, Ontario, Canada

Cables and Telegrams: University of Ottawa, Canada

Telephone Central 5-6751

VISITOR—The Hon J. K. MacKay, DSO, VD, Hon LLD, Lieutenant-Governor of Ontario
 APOSTOLIC CHANCELLOR—H. E. the Most Rev M.-J. LEMIEUX, Archbishop of Ottawa
 RECTOR—Very Rev H. F. LÉGARÉ, MSocSc *Laval*, DSocSc *Lille*, BA Hon LLD *Cal & Assum*
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 TREASURER—Rev. A. L. WALKER, MA PhL STL
 COUNCILLORS—Rev. J. MONCION, BA; Rev. M. GIROUX, MA PhL STD
 CONTROLLER—Rev. L. THERRIEN, BA DipIndAcc
 LIBRARIAN—Rev. P.-E. DROUIN, MA *Montr.*, PhL *Pontif Athen Angelicum*, MLS *Cal*, STL

TEACHING STAFF

[†=Part-Time]

Accounting

Trudeau, Rev. R, MCom *Tor*, BA *Montr.*,
 PhL Prof., Hd of Dept
 Maheu, R, LScCom *Montr.*, BA Asst Prof
 Boulanger, C, BCom MSc *Laval*, CA Lectr.
 Lafrenière, C, MCom *Laval* Lectr.
 Latendresse, R., BCom †Lectr.
 Portugais, G. †Lectr.

Anatomy

Auer, J, MD DSc *Ley* Prof., Hd of Dept
 Bohatirchuk, F, MD DSc *Kiev* Assoc Prof.
 Mitchell, R, MA MB ChB *Glas.* Asst Prof
 Szabo, J, MD *Pécs* Lectr.
 Hall, Elizabeth A, MD *Tor*, PhD Insti
 Vogelfanger, I. J., MD DMedSc *Leovig* Res. Assoc

Arabic

Zetoun, L., BA MSc †Lectr

Bacteriology, see Medicine

Biochemistry

D'Iorio, A, BSc PhD *Montr.* Prof., Hd of Dept
 Ryan, M. T., MSc N U I, PhD *McG.* Asst Prof
 Scoggan, Sybil H., MSc *McG.*, PhD Lectr.
 Robertson, Mrs. Florence, MSc *McG.* Instr.

Biology

Dugal, L. P., OBE, BA MSc *Laval*, PhD *Penns.*,
 FRSCan Prof., Sec. of Fac, Hd of Dept.
 Des Marais, A., BA LSc *Montr.*, PhD *Laval*, Prof.
 Dodson, E. O., BA *Car & Minn.*,
 PhD *Calif* Prof.
 Vladykov, V. B., PhD *Prague* Prof.
 LaHam, Q., BA *Rypon*, MSc *Marquette*,
 PhD (on leave) Assoc Prof
 Legault, Rev. R., MSc C U.A., PhD *Mich.*,
 BA STB Assoc Prof.
 Perrault, Rev. M., MSc *Coim*, LSc *Laval*,
 BA PhL STL Asst Prof
 Vaillancourt, J., BScA *Laval*, MSc Asst Prof
 Arnold, J. W., BA MSc PhD *W.Ont* †Lectr.
 Labelle, R., BA PhL †Lectr.
 Munro, D., BA *Br Col*, PhD *Tor* †Lectr.
 Rinfret, R., MA PhL STL †Lectr.
 Stevenson, I. L., MSA *Tor*, PhD *Lond.* †Lectr.
 Weinberger, Mrs. Pearl, MSc *Manc.* †Lectr.

Botany

LeBlanc, Rev. F., BA PhD *Montr.*,
 MSc *Iowa* Asst. Prof.
 Weinberger, Mrs. Pearl, MSc *Manc.* †Lectr.

Business Administration

Gallant, F. W., BCom *Que.*, MBA *Boston* Lectr.
 Stock, E. H., BSc *W.Ont*, MBA *Syr* †Lectr.

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Chemistry

Laidler, K. J., DSc MA Oxon, PhD Prin, FCIC, FRSCan	Prof, Hd of Dept
Gendron, P.-R., BSc PhD Montr, FCIC	Prof
Belleau, B., BSc Montr, PhD McG, FCIC	Prof
Anet, F. A. L., MSc Syd, DPhil Oxon, Assoc Prof.	
Baer, H. H., DrRerNat Heidelberg	Assoc Prof.
Conway, B. E., DIC, PhD DSc Lond, FRIC	Assoc Prof
Bader, R. F. W., MSc McM, PhD MIT	
Fraser, R. R., MSc W Ont, PhD Ill	Asst Prof
Fraser, R. T. M., MSc NZ, PhD Chic	Asst Prof
Westland, A. D., BSc MA PhD Tor.	Asst Prof
Ingraham, Mrs Eleanor, BA Qu	†Lectr.
Jones, R. N., PhD DSc Manc, FCIC, FRSCan	†Lectr
Morrison, J. A., MSc Alta, PhD McG, FCIC, FRSCan	†Lectr
Reddoch, A. H., MSc Qu, PhD Calif.	†Lectr
Schneider, W. G., MSc Sask, PhD McG, FCIC, FRSCan	†Lectr
Lossing, F. P., MA W Ont., PhD McG, FRSCan	†Lectr

Civil Law

Fauteux, Justice G., Hon LLD Laval, Sudbury & Ott, Hon DCL McG, BA LLL	Dean of Fac
Ste-Marie, Justice P., BA DCL McG, LLD	†Lectr, Vice-Dean
Álexander, E. R., BCom LLB Tor., LLM Calif	Lectr
Aylen, J. A., BA LLL	†Lectr
Azard, P., LLD L&L Paris	†Lectr
Bédard, R., QC, LLL Montr, BA PhL	†Lectr
Bertrand, J., BA LLB	†Lectr
Boucher, J., BA LLL	†Lectr.
Brière, G., BA LLL	Lectr.
Brisset, J., BA LLL	†Lectr
Cadeux, M., BA LLL	†Lectr
Caron, G., BCL McG, BA	†Lectr, Sec of Fac
Chaput, R., DD Civil Pontif Athen Latéan, BA LTH DDC	Lectr, Regent of Fac
Coderre, C., BA LLL Montr, LLD	†Lectr
Couture, L.-A., LLL Laval, MA LPolSc PhL	†Lectr
Des Rivières, F., BA LLL	†Lectr
Ducharme, L., BA PhL LLL	Lectr.
Bergeron, V., BA LLL	Lectr.
Boland, J. D. C., BA Tor	†Lectr
Chevalier, F., BA Laval, LLB Montr.	†Lectr
Cole, C., BA LLM	Lectr
Coutu, J.-C., BA LLL	†Lectr
Dumoulin, J., BA LLD Laval	†Lectr
Frenette, O., BA Car., BCL McG., LLD	†Lectr.
Fyfe, M. H., BA Oxon.	†Lectr.
Galligan, P., BA	†Lectr.
Hambling, D.	†Lectr
Hendry, J. McL., BA LLB Dal, LLM Harv. & Mich, SJD Mich	†Lectr
Hubbard, H. A., BA	†Lectr
Lalonde, M., LLL Montr., BA Montr & Oxon.	†Lectr.

Maltais, P., BA LLL	†Lectr
McKercher, R. H., BA LLB Sask, LLM Harv	†Lectr
Pharand, A. D., LLM Dal., LLD Paris	Lectr
Quain, H., BCom BCL McG, BA	†Lectr
Quann, R., BCom BCL McG, BA	†Lectr
Farley, L., BA LLL	†Lectr
Farley, R., BA LLL	†Lectr
Favreau, G., BA LLB Montr	†Lectr
Feeney, T. G., BA LLB Dal	Lectr
Footo, A. G. L., BA LLB Dal, BCL Oxon	Lectr.
Garon, A., BA LLL	†Lectr
Gobfai, C. E., QC, BA PhL LLL Laval	†Lectr
Godbout, O., BA LLL	†Lectr
Graham, D. W., BA MCL St M, LLB Dal	†Lectr
Hewitt, A. T., LLB	†Lectr
Hughes, R., QC, LLB	†Lectr
Latrémouille, Rev R, DDC	
LDCivil Pontif Athen Latéan, BA DPH	
Lesage, A., BA LLL	†Lectr
Martin, J. C., BA Manit, LLB Sask	†Lectr
Massé, P., BCom	†Lectr
Ménard, R. L., BA PhB LLB BSc	†Lectr
Goun, L.-M., LLD	†Lectr
Morisset, G., MA LLL	†Lectr.
Ollivier, M., QC, BA LLL Laval, LLD Montr., FRSCan	†Lectr.
Pépin, G., BA LLL	Lectr.
Read, J. E., QC, BA Dal & Oxon, LLD Dal & McM, DCL Oxon	†Lectr
Ryan, J. L., BA St FX, BCL New Br	Lectr
Tache, Hon A., BA LLD	†Lectr.
Thorson, D. S., BA	†Lectr
Toupin, L., BA LLL	†Lectr
Paquin, M., BA LLL	†Lectr
Paradis, J., BA PhL LLL	†Lectr
Stern, C., QC, BA PhL LLL Laval	†Lectr.
Taschereau, Hon R., BA LLL Laval, LLD Laval, Montr & Ott	†Lectr

Classics

Gareau, Rev. E., PhB Rome, L&L Laval, DUParis, BA ThL	Prof., Hd. of Dept
Pucci, P., D&L Pisa	Asst Prof
Lozeau, A. R., BEd MA Duquesne	Lectr
Maloney, J. G., BA L&L Laval	Lectr
Roussel, L. D. M., MA Lond	Lectr.
Russell, K., MA	Lectr.
Wells, C. M., MA Oxon.	Lectr

Commercial Law

Anka, M., BCom	†Lectr
Maltais, P., BA LLL	†Lectr.

Drawing

Proulx, M.-G., PDA E.T.H. Zurich	Asst. Prof
----------------------------------	------------

Economics

Firestone, O. J., MA Econ McG, PhD Vienna	Prof.
Brault, Rev. F., PhD St Louis, MA STL	Assoc. Prof.

Judek, S, MA *St And*, PhD *Edin.* Assoc. Prof.
 Boreham, G F, MA Asst. Prof.
 Martin, G, MA *Phil Montr*,
 MA (Econ) *Lond.* Asst. Prof.
 Lamontagne, M, MA *Hav* Vice-Dean
 May, S, MA †Lectr.
 Schoning, G, PhD *Tor.* †Lectr.
 Stukel, A, MSc *Ljubljana*, PhD *Bologna* †Lectr.
 Taylor, D C, MA *Tor* †Lectr.

Education, see Psychol and Educat.

Embryology, see Histol and Embryol.

Engineering

Rowe, R, BEng *McG* Asst. Prof.
 Beauchamp, J, BEng *McG* †Lectr.
 Carrier, M L, BScA *Mont* †Lectr.
 Morgan, W A, BSc *Wales*, PhD *Camb* †Lectr.
 Smalowski, A J, MSc *Leuven* †Lectr.
 Smith, E, MA PhD *Camb* †Lectr.

Engineering, Chemical

Lu, B C Y, MAsc PhD *Tor*
 Assoc. Prof, Hd of Dept
 Basmadjian, D, BSc *Zür*, MAsc
 PhD *Tor.* Asst. Prof.
 Mann, R S, MSc *Alld*, PhD *Hull* Asst. Prof.
 Bélanger, J M, BScA †Lectr.
 Cook, H, MSc *Qu* †Lectr.
 Dietiker, W, BASc *Br Col*, PhD *Manc* †Lectr.
 Haycs, S C, BA BSc *N S T C* †Lectr.
 Casey, E J, BSc *St F X*, PhD *C U A* †Lectr.
 Harvey, E A, BSc PhD *Lond.* †Lectr.
 Lama, R, BScA MSc †Lectr.

Engineering, Electrical

Ghmski, G S, DiplIng *DIng Warsaw*
 Prof, Hd of Dept
 Galbraith, R A H, OBE, CD, BASc
 MA *Tor.* Prof.
 Beauchesne, L.-A, BA BPh BScA *Laval*,
 MSc, MEIC Assoc. Prof.
 Celinski, O Asst. Prof.
 Marsh, J V, BSc (Eng) *Lond* Asst. Prof.
 Makowcz, Z, BSc *Manc* †Lectr.
 Dietiker, W, BASc *Br Col*, PhD *Manc* †Lectr.
 Embleton, T F W, BSc PhD *Lond* †Lectr.
 Shaw, E A G, BSc PhD *Lond* †Lectr.
 Thiessen, G J, MSc PhD *Col.* †Lectr.
 Wierzbowski, S W, DiplIng *Elec Lond* †Lectr.

English Language and Literature

O'Grady, E, MA PhD Prof, Hd of Dept
 McGuinity, D J., BCom MA *Colgate*
 Assoc. Prof.
 Marcotte, P., MA *St John's (N.Y.)*, PhD
 Assoc. Prof.
 Ryan, Mrs Mariana, MA *Tor*, DU *Paris*
 Asst. Prof.
 Stock, L, BA *PhL* Asst. Prof.
 Robinson, B L, BA *Col.*, DU *Paris* Asst. Prof.
 Campbell, A F, BA *Laval*, MA
 PhD *Fordham* Lectr.

Petraroja, S D, MA (Ph) Lectr.
 Curley, J, BA *St Dun*, MA PhD †Lectr.
 Grace, J W, MA *C U A*, PhD *Mich.* †Lectr.
 Hubbard, G, BA †Lectr.

French

Julien, Rev B, PhL *Pontif Athen Angelicum*,
 LèsL *Paris*, BA STL Prof, Hd of Dept
 Hamel, Rev C, BA *PhL STB* Assoc. Prof.
 Spokkens, J, MA *DLatt Nijmegen*,
 CertLat&Phon *Paris* Assoc. Prof.
 Wyczynski, P, LèsL *Dipl'd'étSup Lille*,
 PhD Assoc. Prof.
 de Chantal, R, BA *McG*, LèsL *Paris* Asst. Prof.
 Lesieur, A., BA *BPéd Montr*, MA (Ed) Asst. Prof.
 Ménard, J, BA LèsL *Laval*, DU *Paris* Asst. Prof.
 Robidoux, Rev R, PhL STL *Rome*,
 LèsL *Laval* (on leave) Asst. Prof.
 Mailhot, C., LPH *DèsL Rome* Asst. Prof.
 Cloutier, Cécile, LèsL *Dipl'd'étSup Laval* Lectr.
 Krupka, Mrs. Laure, BèsL *Paris* Lectr.
 Lalonde, G, BA †Lectr.
 Lecleic, J A, BA †Lectr.
 Beaudet, A, BA †Lectr.
 Brule, O, BA †Lectr.
 Saint-Jean, Rev O, BA *Cet LittFr* †Lectr.
 Vezina, Miss Gactane †Lectr.

Geodesy

Saint-Denis, R, BA *Montr.*, BAP
 BScA *Laval* Prof, Asst. Dean

Geography

Zaborski, B, PhD *Warsaw* Prof, Hd of Dept
 Jost, T, MPh *Cracow*, PhD *Montr* Assoc. Prof.
 Ray, D M, BA *Manc* Lectr.
 Vicero, R D, BA *McM*, MS *Wis* Lectr.
 Nicholson, N I., BA MSc *W Ont.*, PhD †Lectr.

Geology

Baird, D M, BSc *New Br.*, MSc *Rock*,
 PhD *McG* Prof, Hd of Dept.
 Dineley, D L., BSc PhD *Berm.*, FGS
 Assoc. Prof.
 Hogarth, D. D, MAsc *Tor*, PhD *McG*.
 Asst. Prof.
 Sanchagnin, Rev R., LSc *Laval*, MA *Br Col*,
 BA Asst. Prof.

German

Freed, P., BCom †Lectr.

Greek, see Classics

Histology and Embryology, see Medicine

History

Thivierge, Rev E, MA *PhL STB* Prof.
 Mostovac, M, LLL *Zagreb*, LLD *Rome*
 Asst. Prof.
 Cienciala, Anna M, BA *Liv*, MA *McG*. Lectr.
 Guimond, L, BPéd MA *Montr.* Lectr.

Lebrun, R. A., BA *St. John's*, MA *Minn.* Lectr.
 Vanasse, A. R., BA *Vermont*, MA
 PhD *Montr.* Lectr.
 Gillespie, J., Hon. BA *W.Ont* | Lectr.

Household Economics

Sister Ste-Marguerite-des-Vertus, MSc
 Prof., Dir of Sch.
 Sister Ste-Croix, BSc *Montr.* Lectr.
 Sister Ste-Jeanne-du-Sauveur, MA *Montr*
 Sister Marie-Solange, MA *Corn* Lectr.
 Sister Ste-Lucie-de-Notre-Dame,
 BScD *Laval* Lectr.
 Saint-Hilaire, Suzanne, BA *Laval*,
 MSc *Minn.* | Lectr.

Italian

Royal, Rev E., L&L *Laval*, LPh *Greg*,
 DTh Prof

Latin, see Classics

Library Science

Morisset, Rev A.-M., MLS *Col*, BA *JCL*
 Prof., Dir of Sch.
 Lomer, G. R., MA *McG.*, PhD *Col.*, FLA
 Prof., Asst. Dir.
 Ringrose, Enid, BA *McM.*, BLS
 †Lectr., Asst. Librarian
 Aubry, C., BA *BLS McG.* †Lectr.
 Brown, J. E., BA *Alta*, BLS *McG.*,
 MA *Chic.* †Lectr.
 Fournier, Mrs Thérèse †Lectr.
 Gouthreau, Olive, MA *BLS McG.* †Lectr.
 Lamb, W. K., MA *PhD Lond*, LLD *Paris*
 †Lectr.
 Martenson, Anna, BA *MS Col* †Lectr.
 Morton, Elizabeth, BA †Lectr.
 Stephenson, L., MA *BLS* †Lectr.
 Sylvestre, G., MA *PhL*, FRSCan †Lectr.

Mathematics

Linus, V., DiplMath *Latvia*,
 MSc *PhD McG.* Prof., Hd of Dept
 Helfenstein, H., PhD *E.T.H. Zurich*,
 MSc *Zur.* Assoc. Prof.
 Vachon, L., BA *McCom Montr.* Assoc. Prof.
 van der Maas, G. J., DSc *Amst* Assoc. Prof.
 Grandchamp, Y., MSc *Montr* Asst. Prof.
 Howland, J. L., MA *Tor*, PhD *Hav*
 Asst. Prof.
 Nadon, J., BCom (on leave) Lectr.
 Rukiewicz, M., DiplMathsTech *Warsaw* Lectr.
 Carrier, L. M., BScA *Montr* †Lectr.
 Cloutier, R. J., BA *MSc PhD McG* †Lectr.

Mechanics

Rowe, R., BEng *McG.* Asst. Prof.
 Convey, J., MSc *Alta*, PhD *Tor.* †Lectr.
 Hayes, St.-C., BA *Dal*, BSc *N.S.T.C.* †Lectr.

Medicine, see below

Missiology, Institute of
 Champagne, Rev. J.-E., MissD *Rome*, MA
 PhL *STB* Prof., Dir of Inst.
 Valentine, V., MA *Tor.* †Lectr.

Music

Martel, Rev J., Dipl *Pontif Inst Mus Sacr*,
 BA *JCB* Lectr.
 Cournoyer, Rev B., BA *PhL STL* †Lectr.
 Latop, Rev C., BA *PhL STL* †Lectr.
 Aubé, I., BA *LPh LTh* †Lectr.

Nursing

Sr Françoise de Chantal, MSc(NursAdm)
 CUA Dir of Sch.
 Sr Madeleine-de-Jésus, MScEdInf Prof
 Forcier, Rev. G., MA *PhD* Regent
 Stock, Joan, BScPHN Assoc. Prof
 Sr. Elisabeth-Marie, BScEdInf Asst. Prof

Personnel Management

Dennison, R., MA *Dal.* †Lectr.

Philosophy within the Fac. of Arts (see also p 286)

Giroux, Rev. M., MA *PhL STD*
 Prof., Hd of Dept
 Beauchamp, Rev M., PhD *STL*
 Prof., Asst. Dean
 Gadous, Rev O., BA *PhL STB*
 Prof., Asst. Dean
 Wojciechowski, J., PhB *Louvain*, PhD *Laval*
 Assoc. Prof.
 Scully, E., BSc *MA Tor.*,
 LSMéd *Pontif Inst., Tor.* Asst. Prof
 Visgak, C., MA *Tor*, PhL Asst. Prof
 Dewan, J. L., MA *Tor* Lectr.
 Gravelle, L. O. J., PhB *Laval*, PhL Lectr.
 Hanus, Rev E. J., BA *PhL STD* †Lectr.

Physical Education

Montpetit, Rev M., BA
 Assoc. Prof., Dir. of Inst.
 Landry, J. F., BA *MSc(PhEd) Ill*
 (on leave) Asst. Prof
 Marcotte, J. E. G., BA *MS Ill* Lectr.
 Mévner, G. J., BSc *MS PhD Ill.* Lectr.
 Hébert, M., BA †Lectr.
 Sheedy, A., MSc *Ill.* †Lectr.
 Tremblay, Rev J.-P. †Lectr.

Physics

Robson, J. M., BA *Camb.*, FRSCan,
 FAPS Prof., Hd. of Dept
 MacDonald, D. K. C., MA *PhD Edin.*,
 MA *DPhil Oxon*, FRS |Hon. Prof.
 Lefavre, J., BA *BScA MSc Laval* Assoc. Prof
 Benson, C. B., BA *Camb.*, MA *PhD Tor.*
 (Phys) Asst. Prof
 Hébert, J., MSc *Montr* Asst. Prof.

Lamarche, G., BSc *Montr*, MSc
PhD *Br.Col.* Asst. Prof.
Smith, R. C., BSc *W.Ont*, MSc *McG*
Asst. Prof.
Collings, E. W., MSc PhD *N.Z.* †Lectr.
Basinski, Z. S., MA DSc DPhil *Oxon* †Lectr.
Dugdale, J. S., MA DPhil *Oxon* †Lectr.
McDiarmid, I. B., MA *Que*, PhD *Mane.* †Lectr.
Pearson, W. B., MA DPhil *Oxon* †Lectr.
Ramsey, D. A., MA PhD *Camb* †Lectr.

Polish Language and Literature, see
Slavic Studies Centre, below

Psychology and Education

Shevenell, Rev. R., MA PhD
Prof., Dir., Sch. of Psychol. & Educn.,
and Chairman, Sch. of Grad.
Studies
Chagnon, M., MA PhL PhD Prof.
Dayhaw, L. T., PhD *Louvain* Prof.
Paplauskas-Ramunas, A., MLitt *Kaunas*,
PhD *Vienna* Prof.
Sidlauskas, Agathe, MA *Kaunas*, PhD *Milan* Prof.
Szyrnski, V., MD *Warsaw*, PhD,
FRCPCan †Prof.
Beniskos, J.-M., MA PhD Asst. Prof.
Celovskic, Mrs. Angelika, PhD *Heidel.* Asst. Prof.
Chagnon, G., BA BPh MPs Asst. Prof.
Isabelle, L., BA MEd Asst. Prof.
Pilon, Marguerite, MPA Asst. Prof.
Andrew, Rev. Sister Mary, BA MEd Lectr.
Barry, W. F., BA MPs Lectr.
Lavigne, R., BA BPh Lectr.
Raymond, M., MA Lectr.
Desjarlais, L., MA PhD †Lectr.
Earle, J., MA PhD †Lectr.
Gillespie, J., Hon. BA *W.Ont* †Lectr.
Renaud, Rev. A., MEd *Tor.*, PhL STL †Lectr.

Psycho-Physiology

Côté, F., MD MS *Tor*, BA PhL, FRSCan,
FACS †Prof.
Gratton, Rev. H., MA PhD STL Lectr.

Public Administration

Hamel, J. M., MScCom *Laval*, MPA *Syr*
†Lectr.

Public Speaking

O'Grady, E., MA PhD Prof., Hd. of Dept.
Herbiet, J., DipIES *Brussels* Lectr.

Religion

Bradley, Rev. F., MA JCL PhD Prof.
Vlasic, Vera, STL *Zagreb*, LScSoc *Louvain*
Lectr.
Ledent, Rev. A., STB *Paris* Lectr.
Parent, Rev. M. E., BA STL Lectr.
Dooley, Rev. J., MA STD †Lectr.
Mole, Rev. J. W., BA PhL STL †Lectr.
Tillard, Rev. R.-M., STL †Lectr.

Russian, see Slavic Studies Centre, below

Slavic Studies

Bida, C., PhD *Vienna* Asst. Prof.
Wanczycki, J. K., MLL MDipSc *Leuven*,
DipPolSc *Paris* †Lectr.
Kaye, V., MA PhD *Vienna* †Lectr.
Mostovac, M., LLL *Zagreb*, LLD *Rome* †Lectr.
Wyczynski, P., LsLs DipId'tSup *Lille*,
PhD †Lectr.
Levitaky, N. †Lectr.

Social and Political Science

Bélanger, Rev. J.-M., BA PhL STL Prof.
Buxton, G., MA *Manit*, DU *Paris* Prof.
Pépin, J.-L., BA PhL DipScPol *Paris*,
LLL Assoc. Prof.
Dozois, G., LPolSc *Geneva* Asst. Prof.
Mostovac, M., LLL *Zagreb*, LLD *Rome*
Asst. Prof.
Kollet, P. A., PhD *Vienna* †Lectr.
Boss, G. W., BA †Lectr.
Lazure, Rev. J., MA *Notre Dame*,
BA PhL STL (on leave) Lectr.
Sabourin, L., BA DipScPol Lectr.
DipLittCont *Paris* †Lectr.
Blanchette, A., MA PhD †Lectr.
Hamel, J. M., MScSoc *Laval*, MPA *Syr*
†Lectr.
Hamel, J. P. R., BA †Lectr.
Roussin, M., PhD †Lectr.
Wanczycki, J. K., MLL MDipSc *Leuven*,
DipScPol *Paris*, PhD †Lectr.

Social Work

Bowers, Rev. S., MSc *Col*, BA
Prof., Dir. of Sch. (St. Patrick's Coll.)
Couillard, C. L., BA MSW Assoc. Prof.
Cruz, V. J., BA MSW Asst. Prof.
Selyan, Alice A., BA *Tor.* Asst. Prof.

Sociology, see Soc. & Econ. and Pol. Sci.

Spanish

Lozano, L., MA *Malaga* †Lectr.

Statistics

Cloutier, Rev. G., BA PhD STL
Prof., Hd. of Dept.
Vaillancourt, M., BSc BEd MA Asst. Prof.
Stukei, A., MSc *Ljubljana*, PhD *Bologna* †Lectr.

Theology, see below

Translation

Davault, P., FRSCan †Lectr.
Goulet, D. †Lectr.

Ukrainian, see Slavic Studies Centre, below

CANON LAW

Caron, Rev. A., STD JCD PhD Prof.
Chaput, Rev. R., DDCivil *Pontif Athen*
Lateran, BA STL JCD †Prof.

Latrémouille, Rev R, DDC
 LDCivil Pontif Athen Lateran, BA DPh
 Prof, Vice-Dean of Fac
 Lesage, Rev. G, STD Greg, MA PhD
 JCD DSSc Dèsl
 Prof

MEDICINE

(for subjects of first two yrs —
 Anat., etc., see above)

Anæsthesia

*Law, D., MD CM Qu †Assoc. Prof.
 Bonfield, J. Patrick, MD CM Qu †Lectr.
 Hampson, L. M., MD Tor. †Lectr.
 Mainville, M., MD Laval, BA †Lectr.
 Sauvé, N., MD Montr. †Lectr.
 Whyte, D. W., MD Qu. †Lectr.
 Chatterjee, K., MB BS Calc Clin. Asst.
 Janssen, Gesina, MD Marburg Clin. Asst.
 Rossignol, J.-P., BSc MD Montr., BA
 Clin. Asst.
 Duocher, Juliette, MD Montr., BA Clin. Asst.
 Kay, H. T. Clin. Asst.

Bacteriology and Hygiene

Gibbons, R. J., MA MD DPH Tor. †Prof, Hd. of Dept
 Day, J. J., BA MD CM DPH McG. †Prof, Sec. of Fac.
 Mitchell, C. A., BVSc Tor, DVM Montr.,
 FRSCan Assoc. Prof.
 Beaulieu, M., BSc Montr., MSc PhD McG
 Asst. Prof.
 Znamierski, R., MB ChB BSc Dub Asst. Prof.
 Hamel, J. F., BA MD Montr., FRCPCan
 †Lectr.
 Lauder, M. S., MD CM Qu. †Lectr.
 Harris, F. F. †Visiting Lectr.
 Loeb, L. J., BSc McG., MSc MD W Ont. †Demr.

Dermatology

Kingma, H., MD Gron. †Asst. Prof.
 Mercantini, E. S., BA Tor, MD Clin. Asst.

Ethics

Maroux, Rev H., MA PhL STL Greg.
 Prof., Regent of Fac.

Gynaecology, see Obstet. and Gynaecol.

Histology and Embryology

Bélanger, L.-F., BA MD Montr.,
 MAMedSc Harv Prof, Hd of Dept.
 Hooper, Mrs C. S., BSc PhD McG.
 †Asst. Prof.
 Florian, F., BA MD Lectr.

Medical Jurisprudence

Mercier, R., QC †Lectr.

Medicine

Fidler, A., MD Warsaw Prof., Hd. of Dept.

Guest, W. A., MD Tor. †Prof.
 Smiley, R. K., BA Sask, MD CM Qu, †Assoc. Prof.
 FRCPCan
 Nanceljeville, A. F., MD CM McG, †Asst. Prof.
 FRCPCan †Asst. Prof.
 Roussel, L., MD Montr., BA †Asst. Prof.
 Bédard, O., BA MD Laval †Sr. Lectr.
 Berkman, F., MD CM Qu, MSc Georgetown,
 FRCPCan †Sr. Lectr.
 Sauvé, G., BA MD Montr.
 Brooks, D. W., BA MD Tor. †Lectr.
 Fireman, H. H., MD Tor, FRCPCan †Lectr.
 Fraser, J. T., MD Qu †Lectr.
 Fortier, B., MD Montr., BA †Lectr.
 Gagné, R., MD Montr., BA †Lectr.
 Law, W. B., MD CM Qu †Lectr.
 Mercier, J., MD Laval, FRCPCan, BA †Lectr.
 Powers, A., MD Laval, BA †Lectr.
 Mazzeo, K., MB ChB Edm †Lectr.
 Simard, Irène, MSS Montr., MSW Fordham
 †Lectr.

Potvin, L., BA MD Laval, FRCPCan †Clin. Asst.
 Purchase, E. C. R., BA Sask, MD Tor.,
 FRCPCan Clin. Asst.
 Julien, Lucile, MD Montr., BA Clin. Asst.
 Parent, E. P., MD Clin. Asst.
 Radou, N., BA Chg, MD Laval Clin. Asst.
 Riley, J. M., BA St Jos, MD Clin. Asst.
 Valois, G., BA MD Clin. Asst.
 Villeneuve, P. J., MD Clin. Asst.

Medicine, History of

Mantha, L., MD Montr., BA †Asst. Prof.

Neurology, see Psychiatry and Neurol.

Obstetrics and Gynaecology

Richard, A. L., BA St Anne (N S) MD Laval
 †Prof, Hd of Dept
 de Saint-Victor, H., BA MD Laval †Prof.
 Puddicombe, J. F., MD McG †Prof.
 Nuyens, A. J., MD DSc Utrecht †Assoc. Prof.
 Whyte, J. C., MD Qu., FRCOG, †Asst. Prof.
 FRCSCan †Asst. Prof.
 Hurtig, A., BA MD Alta †Asst. Prof.
 Carson, G. T., MD Qu †Lectr.
 Noel, M., BA MD Montr. Lectr.
 Beaudoin, E., BA MD Laval Clin. Asst.
 Beggs, J. A., MD Qu., DGO Dub. Clin. Asst.
 Kadziora, M. B., MD Dusseldorf Clin. Asst.
 Kronick, S., MD Qu Clin. Asst.
 Reid, S. L., MD Clin. Asst.
 Watt, L. O., MD Qu., FRCSEd Clin. Asst.
 Rouleau, R., MD Laval, BA Clin. Asst.
 Conklin, F. J., MD Clin. Asst.

Ophthalmology

Gilhooley, J. P., MD CM McG
 Prof, Hd of Dept
 Allen, D., MD CM Qu. †Assoc. Prof.
 Shirley, S. Y., MD Dal., FRCSCan †Asst. Prof.
 Fraser, W. F., MSc Dal., MD McG. †Lectr.

Gaukrodger, W. T., MD *Qu.*
 Watson, A. G., MB ChB *St And.*
 Baird, J. T., BSc MB ChB *Glas* Visiting Lectr
 Corriveau, A. R., BA MD *Laval*
 Spearman, W. F., BSc MD

†Lectr
 †Lectr.
 †Lectr
 †Lectr

Oto-Laryngology

Coupal, J. L., MD *Montr* Prof
 Corriveau, A. R., BA MD *Laval* †Lectr.
 Laframboise, G., MD *Montr* †Lectr
 Laframboise, G. G., BA MD Clin Asst.
 Robinson, H. C., MD *W Ont* Clin Asst

Pædiatrics

Conway, D. J., MA MD *Canb*,
 FRCPCan, MRCP Prof, Hd. of Dept.
 Kenney, A. S., BA *Bishop's*, MD *Qu*

†Asst. Prof.

de Bellefeuille, P., MD *Montr*, BA †Asst Prof
 Stewart, D. A., BA *Sask.*, MD *Tor.* Lectr
 Bourque, H., BA MD *Laval* †Lectr
 Maloney, P. J., MD CM *Qu.* †Lectr
 Marion, G., MD CM *Qu.* †Lectr.
 Montz, D., MD *Bud* †Lectr
 Doyle, J. A., MD Clin Asst
 Kay, Mrs Elspeth C., MB ChB *Edm* Clin Asst

Morin, H. L., BA *Laval*, MD *Montr.* Clin. Asst
 Ozere, R. L., BSc *McG.*, MD Clin Asst

Parasitology

Choquette, L. P. E., BA *Montr*, MSc
 Ph.D *McG.* †Asst Prof
 Cameron, T. W. M., TD, MA Ph.D *Edm.*,
 DSc *Lond*, FRCS Visiting Prof

Pathology

Magner, D., MD BMedSc *Tor*, FRCPCan
 Prof., Hd of Dept.
 Campbell, J. S., BSc MD CM *Dal* Asst Prof
 Hill, D. P., MD Asst Prof
 Burke, J. P., BA *McG.*, MD †Asst Prof
 Fournier, P. W., MD Lectr.
 Patton, J. O., MD CM *Qu* Visiting Lectr.
 Klotz, M. O., MD *Tor* Visiting Lectr

Pharmacology

Murnaghan, M., MB BCh BAO MSc *N U I.*
 Prof., Hd of Dept.
 MacConaill, M., MSc *N U I* Lectr.

Phthisiology

Lehman, E. J., MB *Tor.* †Lectr.

Physiology, see also above

Beznak, Mrs. Margaret, MD *Bud*
 Prof., Hd of Dept
 Mannwood, G. W., Ph.D *Birm* Asst Prof
 Henrikson, Mrs. Helen, BSc Ph.D *McG.* Instr.
 Hines, Mrs Bernice, MA *Tor.* Instr.
 Ottolenghi, P., MSc Ph.D *McG* Lectr.

Psychiatry and Neurology

Chalke, F. C. R., MD *Manit*, MMedSc *Qu*
 †Assoc Prof, Actg Hd. of Dept
 Stern, K., MD *Fran* †Prof
 O'Connell, J. J., MD CM *Qu* †Assoc. Prof.
 Szyrinski, V., MD *Warsaw*, Ph.D, FRCPCan †Assoc Prof
 Hefferman, Mrs. Angela B †Asst Prof.
 Woodruff, W. A., BA MB BS *Lond* †Lectr.
 Gendreau, L.-P., BA MD *Manit* Visiting Lectr
 Gilbert, J. E., MB BS *Lond* Visiting Lectr.
 Cathcart, J. P. S., MD *Tor.* †Sr. Lectr.
 Atack, E. A., MD CM *Qu*, FRCPCan (Neurol.) Sr Lectr.
 Morin, G. D., BA MD *Montr* †Lectr.
 Pushman, D. R., MD *Tor* Clin Asst.
 Tellier, J., BA MD *Laval* Clin. Asst
 Voyer, d'A., BA MD *Laval* Clin Asst.

Radiology

Don, C. J., MB BS *Lond*, MRCP, FFR
 Asst. Prof., Hd. of Dept
 Catton, G. E., MB BS *Lond* †Lectr.
 Crook, A. F., MB Belf, FRCSEd †Lectr
 Hurley, J. D., MB BCh BAO *N U I.*,
 DCH *Dub.* †Lectr.
 Orr, W. L., MSc Ph.D *McG* †Lectr
 Momose, K. J., BSc MD *McG.* Clin. Asst

Surgery

Ewing, J. B., MD CM *Qu.*, FRCS,
 FRCSCan, FACS (Clin S) Prof, Hd of Dept
 Collins, W. E., MD CM *Qu.*, FRCSCan †Assoc. Prof.
 Côté, F., MD MS *Tor.*, BA PhL, FRCS,
 FACS †Assoc. Prof
 Lecours, A., BA MD *Laval*, FACS,
 FRCSCan (Clin. S) †Assoc Prof, Sec. of Council
 Robichon, J., MD *Laval*, MSc *McG.*, BA,
 FRCSCan (Clin Orthop.) †Assoc Prof.
 Sams, J. C., MD *Qu*, FRCSEd, FRCSCan †Assoc Prof
 Wilson, K. E., MD *McG* †Assoc. Prof
 Beattie, W. G., MD *Tor*, FRCSCan †Asst. Prof.
 Drouin, J.-P., BA *Laval*, BSc MD *Alta.*,
 FACS, FRCSCan (Clin S) †Asst Prof.
 Scobie, T. K., BA MD MSc DSurg *McG* †Asst. Prof.
 Curran, D. D., MB BCh BAO *N U I.*,
 FRCSEd †Asst. Prof.
 Peterson, E. W., BSc MD *McG*, FRCSCan (Neuro-S.) †Asst. Prof.
 Irwin, G. E., BA *Tor.*, MD *Laval*,
 FRCSCan †Asst. Prof.
 Bélanger, P. B., MD CM *McG.* †Sr Lectr.
 Berry, J. V., MD *Qu* †Sr. Lectr
 Caven, W. H., MD *Tor.* †Sr. Lectr.
 Bonfield, John P., MB *Qu.* †Lectr
 Larocque, A., MD *Montr.*, BA (Clin. S) †Lectr.
 Terrien, J., MD *Laval*, BA †Lectr.

Hooper, G. D., MD CM *McG*, FRCSCan

Powell, A. B., MD *Tor* †Lectr.
 Brunet, E.-D., BA MD *Montr.* †Lectr.
 Gaulin, P., BA MD †Lectr.
 Heringer, R., BSc *McG.*, MD, FRCSCan †Lectr.
 Vail, W. J., MD Clin Asst
 Simurda, J., BA MD Clin. Asst.
 Ducharme, F. A., BSc MD MCh Clin. Asst.
 Murphy, P. G., BSc MD Clin Asst.

Therapeutics

Doyle, P.-E., BA *St. Dun.*, BSc *St F X*,
 MD CM *McG.*, FRCPCan Asst. Prof

PHILOSOPHY

(see also p 282)

Croteau, Rev. J., MA PhD STL Prof.
 Saint-Denis, Rev. H., PhD STD *Pontif Athen*
Angelicum, BPed *Tor*, BA Prof
 Carrière, Rev. G., STL *Greg*, BA PhD Prof
 Ducharme, L., PhD *Louvain*, BA STL Prof
 Gratton, Rev. H., MA PhD STL Prof
 Patry, Rev. M., MA STL PhD
 Assoc. Prof., Sec. of Fac
 Stroick, Rev. C., STD *Bonn*
 Assoc. Prof., Vice-Dean of Fac
 Cournoyer, Rev. B., BA PhL STB Lectr
 Allard, J.-L., PhD *Paris*, BA PhL Lectr
 Dancause, Rev. G., BA PhL STL Lectr
 Gargantini, Rev. F., PhL STL *Greg.* Lectr
 Paquet, Rev. L., BA PhL STL Lectr
 Garceau, Rev. B., LTh *Greg*, BA PhL Lectr
 LeMarier, Rev. J. G., BA PhL STL Lectr.
 Parent, Rev. L. P., PhL *Pontif Athen*
Angelicum, BA Lectr
 Poliquin, J.-M., BA PhL STB †Lectr.

THEOLOGY

Gervais, Rev. J., PhL *Pontif Athen Angelicum*,
 STD (Dogm Th) Prof
 Caron, Rev. V., STD
 PhD *Pontif Athen Angelicum* (Moral Th) Prof
 Guindon, Rev. R., DTh *Frib*, BA PhL
 (Moral Th) Prof.
 Marcotte, Rev. E., MA PhL STD
 (Moral Th) Prof., Vice-Dean of Fac
 Associate Professors
 Jetté, Rev. F., MA PhL STD (Spiritual Th)
 Joppolo, Rev. A., STL PhD *Rome*
 (Dogm & Fundam. Th.)
 Pagano, Rev. S., STD SSCL *Rome*, PhD
 (Bibl. Lang)

Lecturers

Bellemaire, Rev. R., BA PhL STD
 (Dogm Th) Sec of Fac.
 Boudens, Rev. R., DHE (Church Hist)
 Chenet, Rev. M., BA PhL STL *Rome* (Theol)
 D'Aragon, Rev. J. A., LEcrs STL
 (Sacred Scripture)
 Goudreaux, Rev. H., BA PhL STL
 (Dogm Th)
 Hudon, Rev. G., BA STD
 DiplInstSupdeLat *Paris* (Liturgy)
 Laberge, Rev. L., PhL STL (Dogm Th.)
 LeMarier, Rev. J.-G., BA PhL STL
 (Dogm Th.)
 Moleski, Rev. L., BA PhB STB (Church Hist)
 Giguère, Rev. A., BA PhL STL (Moral Th.)
 Lesage, Rev. G., STD *Greg.*, MA PhD
 JCD DSSC *Désl* (Canon Law)
 Lamirande, Rev. E., MA PhL STL
 (Dogm Th.)
 Vézina, Rev. L. P., BA PhL STL JCL
 (Canon Law)

ADMINISTRATIVE AND OTHER STAFF

Rector of Univ Seminary Rev. R. Normand,
 PhD STL. Students' Chaplain Rev. L.
 Raby, BA STL. Dir of Athletics A. Sheedy,
 MSc(HEd) *Ill*, BSc Dir of Univ of Ottawa
 Press Rev. L. Lanctot, BA PhL STL LDC
 Dir. of Revue de l'Université d'Ottawa Rev. G.
 Carrière, STL *Rome*, BA PhD Dir of Catholic
 Centre Rev. J. Moncion, BA Archivist Rev.
 J. Gravel, BA Dir of Univ Health Services
 J. J. Day, BA MD PhD *Tor* Legal Adviser G

Addy, BA LLB *Tor* Dean of Students Rev.
 L. Ducharme, PhD *Louvain*, BA STL Dir of
 Guidance & Placement L. Isabelle, BA MED.
 Dir of Public Relns. & Development G. W.
 Boss, BA. Dir of Extension (evg., correspon-
 dence, summer sch.) Rev. Gérard Forcier, MA
 Principal of High Sch. (within the Univ) Rev.
 R. Lemieux, BEd MA Principal of Teachers'
 Coll. (within the Univ) Rev. L.-P. Pigeon,
 BPed *Tor*, LPéd *Louvain*, BA PhL STL

CONSTITUENT COLLEGE

St. Patrick's College, Ottawa, Ont. (RC)
 Establd. 1932. Residential accom available
 Co-educational Provides courses leading to BA,
 BSc, BComm, BScSS, MA and MSW Although
 a constituent coll of the univ., St. Patrick's is

autonomous in admin and financial matters
 Rector—Rev. J. Kelly, MA *Tor*, DUParis
 Registrar—Rev. F. E. Banim, BA *Dub*, MA
Camb, STL *Rome*.

AFFILIATED INSTITUTIONS

(All, except Major Seminary, for BA only, Major Seminary STB only The teaching staff of the Affiliated Institutions are not listed by name above)

BRUYÈRE COLLEGE, 200 Rideau St., Ottawa, Ont (tel. Ottawa CE 5-7246) Founded 1925. Women only Directress—Rev Sr Ste Madeleine

CATHOLIC COLLEGE OF GRAVELBOURG, Gravelbourg, Sask (tel. Gravelbourg 95). Founded 1924 Men only Rector—Rev E Dubreuil

CLASSICAL COLLEGE, Cornwall, Ont (tel. Cornwall 5350) Founded 1949 Men only Superior—Rev E Charlebois

CLASSICAL COLLEGE, Rouyn, Que (tel. Rouyn 2822). Founded 1948 Men only Superior—Rev J Bélanger

MAJOR SEMINARY, 1245 Kilborn St., Ottawa, Ont (tel. Ottawa RE 3-3640) Founded 1847 Men only Courses for STB of the Univ Du—Rt Rev D Rollin

MINOR SEMINARY, Carson Road, Ottawa, Ont (tel. Ottawa SH 6-8191) Founded 1925 Men only Superior—Rev C A Demers

NOTRE-DAME COLLEGE, Wilcox, Sask (tel. Wilcox 24) Founded 1933 Co-educational Dir.—Rev A Murray

SACRED HEART SCHOLASTICATE, Lebreton, Sask. (tel. Fort Qu'Appelle 23-r-47) Founded 1927. Men only Dir.—Rev H Gagné

ST JOHN'S COLLEGE, 8406 91st St., Edmonton, Alta. (tel. Edmonton 63325) Founded 1928. Men only Dir.—Rev H Lacerte

ST THOMAS' COLLEGE, Battleford, Sask (tel. North Battleford 2212, Battleford 23) Founded 1939 Men only. Dir.—Rev E Stang

GENERAL INFORMATION

In 1848 the Missionary Oblates of Mary Immaculate founded the 'College of Bytown' for the moral and intellectual educn. of the people of the Ottawa valley. In 1849 it was incorporated and in 1861 became the 'College of Ottawa'. An act of the union govt in 1866 raised the coll to the rank of a univ and in 1889 it became a pontifical univ by decree of Pope Leo XIII. The univ had barely begun to develop when, in 1903, its bldgs were destroyed by fire. The revised civil charter was approved by the Ontario legislature in 1933. The pontifical charter was amended according to the requirements of the constitution *Deus Scientiarum Dominus* and was also given a new approval by Rome in 1934. During the past 20 yrs the univ. has developed rapidly.

The purpose of the univ. is to give its students a truly Christian educn. A distinguishing mark of its teaching is the organization of parallel courses in English and French in most sections. In its teaching methods it tries to combine traditional values and modern techniques.

CONSTITUTION In all matters academic, supreme power and authority rests with the senate, which is composed of the great chancellor, the rector, the deans and dirs of facs and schs. and the members of the council of admin. The admin. powers are vested in the council of admin. composed of the rector, vice-rectors, sec., treasurer and 2 councillors, all of them belonging to the Oblates of Mary Immaculate. This body is advised by senate on academic matters and by the bd of regents (7 members chosen among prominent laymen) on financial matters.

INCOME (1959-60) Total income, \$4,173,779.42 (govt grants, 33 per cent, fees, 30 per cent; endowment, 15 per cent., misc, 35.5 per cent.)

FACULTIES AND DEANS. *Arts*, Rev. R. Lavigne, *canon law*, Rev A. Caron, *law (common & civil)*, Hon G. Fauteux, *med*, Dr J J Laussier; *philos.*, Rev J. Croteau, *pure & appl. sci.*, Dr P-R Gendron (chem), *soc, econ & pol sci*, Rev J-M Bélanger, *theol*, Rev R. Guindon.

SCHOOLS AND DIRECTORS *High sch*, principal, Rev R. Lemieux, *library*, Rev A-M. Morisset, *teachers' coll*, principal, Rev L-P Pigeon; *nursing*, Sr. Madeleine-de-Jésus, *psychol* & *educn*, Rev R. Shevenell.

INSTITUTES AND DIRECTORS. *Missiology*, Rev. J-E Champagne, *pastoral theol*, Rev L P. Vézina, *phys educn*, Rev M. Montpetit

UNIVERSITY PRECINCT Campus at present covers area of 39 acres in Sandy Hill district of Ottawa and is to extend a mile along left bank of Rideau Canal. There are 9 teaching bldgs, 6 temporary bldgs, 6 fac and sch libraries, Univ of Ottawa Press and certain residence accomm.

GEOGRAPHICAL LOCATION *Theol*, *philos* and *canon law* • 223 Main St., tel. CE 5-1421, *arts*, 165 Waller St., tel. CE 5-6751, loc. 221, *pure and appl sci.*: 700 King Edward St., tel. CE 5-6751, loc. 265, *med.*, 275 Nicholas St., tel. CE 5-6751, loc. 283; *law*, 165 Waller St., tel. CE 5-6751, loc. 307; *nursing sch*: 30 Stewart St., tel. CE 5-6751, loc. 238; *Catholic centre* • 1 Stewart St., tel. CE 5-6751, loc. 245.

LIBRARIES 300,000 vols. The parliament library to which the students have access has 525,000 vols.

LABORATORIES *Anat.*, *bacteriol.*, *biochem*, *biol.*, *chem*, *geol*, *langs.*, *phys.*, *physiol.*, *psychol*

MUSEUMS Victoria museum, access to the geol survey dept museum, the dominion observatory and Canadian fisheries museum are located in Ottawa

TEACHING HOSPITALS Ottawa General H (centre for clin teaching), Ottawa Civic H (Veterans' Pavilion) (clin. med & surg.), St Vincent's H (phys diagnosis), Royal Ottawa Sanatorium (TB), Rockcliffe Military H (clin. teaching surg.)

ADMISSION. See Appendix III

DEGREE COURSES *Theol*—STB (2 yrs), STL (4 yrs), STD (5 yrs), DMiss (3 yrs) *Canon law*—JCB (1 yr.), JCL (2 yrs), JCD (3 yrs) *Philos*—PhB (2 yrs), PhL and MA(Ph) (3 yrs), PhD (4 yrs) *Law*—LLB and LLL (3 yrs), LLD (2 yrs) *Med*—MD (4 yrs) *Arts*—BA (4 yrs), BA(Ed), BA(PhysEd), BA(Phil), BA(Geog), BA(Premed) (4 yrs), BHE (4 yrs), BCom, BCom(BA), BCom(Acc), BCom(Econ) (4 yrs), hons. BA in Engl., Engl.-Latin, French-Latin, geog, philos, psychol (5 yrs), MA, PhD, DLitt (2 to 3 yrs) *Pure & appl sci*—pass BSc (4 yrs), hons BSc in biochem, biol, chem, geol, maths, phys (5 yrs.), BASc in chem engn and electr. engn (5 yrs), MSc in nuclear engn (1 yr), MSc and PhD in biochem, biol, chem, chem. engn., electr. engn., geol, maths, phys (2 to 4 yrs) *Soc., econ. & pol sci*—BA(PolSci), BA(Econ), BA(SS) (4 yrs), BPolSci (general or in internat relns), BEcon, BSS (4 yrs), MA and PhD in pol sci, econ and soc. studies (2 to 3 yrs) *Nursing*—BNSc (5 yrs.) *Labr. sci*—BLS, MLS (2 to 3 yrs) *Psychol. & educn*—BED (5 yrs), MEd, MPsychol, MA(Ed), MA(Psychol), PhD in educn, psychol, clin. psychol, counselling (1 to 3 yrs.) *Soc work*—MSW (2 yrs)

HONORARY DEGREES. LLD, DSc, DLitt, DBA, STD.

DIPLOMAS Grad studies (2 yrs.), sch of nursing (3 yrs.), sch of library sci. (1 yr)

CERTIFICATES Gregorian chant (5 summer sessions), library sci (1 yr.), appl sci (3 yrs), pol sci. (1 yr), nursing (public health) (1 yr), nursing (nursing educn) (1 yr.), phys educn (3 summer sessions)

FEES. (For tuition only) *Theol*, canon law, \$315 p.a. *Philos*, \$385 p.a. *Civil law*, \$405 p.a. *Med*—premed, \$480, other yrs, \$590 p.a. *Sch of grad. studies*, \$20 per semester hour *Fac of arts* 1st yr, \$340, other yrs., \$415 p.a. *Phys. educn*, \$340 to \$465 p.a. *Home econ* 1st yr, \$340, other yrs, \$465 *Engn. & pure sci* 1st yr, \$340; pure sci., 2nd, 3rd, 4th and 5th yrs., \$490, engn 2nd yr., \$490, 3rd and 5th yrs, \$530. *Pol sci.*, \$340 to \$415. *Sch of*

nursing degree course, \$275 to \$390 p.a. *Summer courses in arts*, \$60 per subj. *Evg courses in arts*, \$30 to \$75 per subj. *Correspondence courses*, \$40 per subj. *Grad courses*, \$20 per credit

ACADEMIC YEAR. Sept to May 2 terms of 15 wks each

LANGUAGES OF INSTRUCTION. Bilingual French and English

EXTENSION DEPARTMENT Offers courses carrying academic credit towards BA, BCom degrees, in evg courses during winter session, at annual summer sch. and at sp. outside centres (at present, Hawksbury and Cornwall) There are 2 sections in the summer sch the grad division leading to masters' or doctors' degrees and the undeigad leading to bachelors' degrees In all cases there is a min. residence of 1 full yr for doctors' degrees The dept of extension also offers correspondence courses leading to a pass BA A min. of course must be taken in residence either a full academic yr or 3 summer sessions

SUMMER COURSES in arts and sci, philos, psychol, theol., church music, phys educn, grad studies

CORRESPONDENCE COURSES in arts only.

RESIDENCE (for men) Accommod for 275 (fees \$190 p.a., univ seminary (249 Main St.), 140 (fees \$500 p.a., tel. CE 3-8493)

MILITARY TRAINING Univ contingents prepare students for commissions in Royal Canadian army (reserve), Royal Canadian navy (reserve) and Royal Canadian air force (reserve)

A STUDENT HEALTH SERVICE is provided by the univ

DEPARTMENT OF PUBLIC RELATIONS AND PUBLICITY is the point of contact with the univ. for the press and general public Issues all univ announcements and places its advertising. Publishes annually an *Experts Panel* placing univ specialists at the disposal of the press for authoritative comment and articles Dir—G W Boss, BA

PUBLICATIONS. *Revue de l'Univ. d'Ottawa* (quarterly, \$3), *Calendars* of the different faculties, schs and insts; *Publications sériees* (51 vols. already publd), Univ of Ottawa Teachers' Coll. *Yearbook*, *Med Journal* (quarterly, \$0.50 per issue), *Inscape* (quarterly review of literature), *The Fulcrum* and *La Rotonde* by students

UNIVERSITY OF OTTAWA PRESS, founded in 1937, has publd more than 100 vols. by staff members and grads of the univ. A sp section, named Senate Publications, edits exclusively univ. works (see above)

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	2347	1884
Women	537	2484
Total	2884	4368*

Distribution by Faculties, etc *Arts*, 494, *canon law*, 10, *comm.*, 367, *home econ*, 44, *law*, 182, *library sci*, 14, *med*, 274, *musiol*, 9, *nursing*, 224, *pastoral theol*, 35, *philos*, 173, *phys educn*, 81, *psychol & educn*, 95, *sci*, 449, *soc, econ & pol sci*, 178, *soc work*, 41, *theol*, 214. Total: 2884.

Included in the figures above are —

Postgraduate students, 442

New admissions, 1669

Students from other countries, 318 (Country from which largest number came: U S A, 157)

Not included in the figures above are affiliations, 732; teachers' coll, 364.

DEGREES AWARDED (1960) *Arts* BA, 287,

* Correspondence, 1411, evg courses, 1649, summer courses, 1704, grad. courses, 302 (698 double registration)

BA(Educn), 1, BA(PhysEd), 11, BA(PreMed), 6, BA(Fr) honrs, 1, BA(Engl&Latin) honrs, 1, BA(Fr&Latin) honrs, 1, BSc(Geog), 1, BSc(PhysEd), 1, BSc(Ed), 2, BCom, 49, BHE, 2, MA, 17, PhD, 5 *Canon law* JCB, 2 *Law* LLB, 29, LL.L., 11 *Library sci* BLS, 15 *Med* MD, 51, MSc, 1, PhD, 1 *Nursing*: BScN, 14 *Philos* PhD, 46, BA(Philos) honrs, 13, PhL, 26, PhD, 2 *Psychol & educn*: BEd, 35, MA(Psych), 3, MEd, 12; MPsych, 7; PhD(Educn), 3, PhD(Counselling), 1, PhD(ClinPsych), 3, PhD(ClinChildPsych), 1. *Sci*: BSc, 10, BASc(Chem), 7, BASc(Elect), 5; BSc(Biochem) honrs, 1, BSc(Math) honrs, 1; BSc(Phys) honrs, 3, MSc(Bio), 3, MSc(Chem) 1; MSc(ChemEng), 1, MSc(Phys), 3, PhD(Chem), 5, PhD(Biol), 2 *Soc, econ & pol sci*: BA(PolSc), 14, BA(Soc), 3, BSoc, 1, BScEcon, 1, BPolSc, 16, MA(Econ), 4, MA(PolSc), 2, MA(Soc), 1 *Soc work*: MSW, 16 *Theol*: STB, 49, STL, 26

DIPLOMAS AND CERTIFICATES AWARDED (1960)

Grad nurses, 39, nursing educn, 23, pub health nursing, 25; grad dipls in civil law, 2, grad. dipls in public law, 2

QUEEN'S UNIVERSITY AT KINGSTON*

Founded 1841

Postal Address: Kingston, Ontario, Canada

Cables and Telegrams: Queen's University, Kingston, Ontario

Telephone Kingston, Ont., Laberty 6-1731

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PRINCIPAL—J A CORRY, Hon LLD *Sask*, BCL *Oxon*, FRSCan

VICE-PRINCIPAL (ADMINISTRATION)—J. J. DEUTSCH, Hon LLD *St M*, BCom

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SECRETARY—M C TILLOTSON, MBE, MBA *Harv*, BCom

TEACHING STAFF

[†=Part-Time]

Anatomy, see Medicine		Stuch, H F, PhD <i>Wurzburg</i>	Asst Prof
		Keast, J. D, MSc <i>Syd</i> , MA PhD <i>Harv</i>	
Art			Asst Prof
Bisler, A.	Prof	Riegel, J A., AM PhD <i>Calif</i>	Asst Prof.
1 Asst., 1 Tutor		18 Tutors	
Bacteriology, see Medicine		Business, School of	
		Macpherson, L G, BA <i>McM</i> , FCA	
Biochemistry, see Medicine			Prof, Dir of Sch
Biology		Smails, R G. H, BSc(Econ) <i>Land</i> , FCA	Prof
.... John Roberts & John Roberts Allan Prof		McDougall, J. L., MA <i>Tor.</i>	Prof
Krotkov, G, BSA <i>Prague</i> , MA PhD <i>Tor.</i> ,		Leonard, W G, FCA	Prof.
FRSCan McLaughlin Res. Prof.		Smyth, J E, MCom <i>Tor</i> , FCA	Assoc. Prof.
West, A. S, BSc <i>Mass.State</i> , PhD <i>Yale</i> Prof		Hand, R J, BCom <i>Mamst</i> , MBA <i>Chc.</i>	
Curran, H. W., BS <i>Hobart (N Y)</i> , MA		Barrett, F D., BSc <i>McG</i> , PhD <i>M.I.T.</i>	Assoc. Prof.
PhD <i>Mitch</i>	Prof		
Good, H. M., BA PhD <i>Tor.</i>	Assoc. Prof.	Monieson, D D, BS <i>Vermont</i> ,	
Denyes, Miss H Ariiss, MS PhD <i>Mitch</i> ,		* MBA <i>Miami</i> , PhD <i>Ohio</i>	Assoc Prof
BA	Asst Prof	Benson, E J., BCom	Asst. Prof
Beschel, R E, PhD <i>Innsbruck</i>	Asst Prof.	Galvin, B J B	Asst Prof
Brown, S R, PhD <i>Yale</i> , MA	Asst Prof	Dixon, B., BA <i>Mamst</i> , MCom <i>Tor.</i> ,	
Nelson, C D, MA PhD	Asst Prof.	PhD <i>Mitch</i>	Asst. Prof.
		Shaw, G C, BA	Asst. Prof

* Member of the Association of Universities of the British Commonwealth

Crandall, R. H., BCom
1 Tutor

Sp. Lectr

Shortliffe, G., MA *Alta.*, PhD *Corn.*
Bessette, B., MA *DésL. Montr.*

Prof.

Assoc. Prof.
Asst. Prof.
Lectr.

Chemistry

Jones, J. K. N., PhD DSc *Burm.*, FRS,
FRSCan, FCIC Chown Sci Res Prof
McIntosh, R. L., BA MSc *Dal.*, PhD *McG* Prof
Munro, L. A., MA *Dal.*, PhD *McG*,
FRSCan, FCIC Prof
Dorrance, R. L., MA *Tor* Prof.
Smith, W. M., BSc *New Br.*, PhD *McG.* &
Camb., FCIC Assoc. Prof.
Moir, R. Y., PhD *McG.*, MA Assoc. Prof.
Russell, K. E., MA PhD *Camb.* Asst. Prof.
Wheeler, R. C., PhD *Camb.*, MSc Asst. Prof.
Breck, W. G., PhD *Camb.*, MSc Asst. Prof.
Stairs, R. A., BSc *McG*, MSc *W Ont.*,
PhD *Corn.* Asst. Prof.
Perry, M. B., BSc PhD *Brist.*
R. Samuel McLaughlin Asst. Prof
44 Demrs & Tutors

Classics

Tracy, H. L., BA *Tor*, PhD *Chic.* Prof
Smethurst, S. E., MA *Camb.* Prof.
Harrison, E. H., BA *Mane.*, MA *Oxon*
Assoc. Prof.
Robinson, T. H., MA Lectr
Reesor, Margaret, MA *Tor.*,
PhD *Bryn Mawr* Lectr
2 Tutors

Drama

Angus, W., AM PhD *Corn.* Prof
1 Asst., 1 Tutor

Economics, see Pol. and Econ. Sci.

Engineering, see below

English

Ross, M. M., BA *New Br.*, MA *Tor.*,
PhD *Corn.*, FRSCan James Cappon Prof.
Vincent, C. J., BA *W. Ont.*, AM
PhD *Harv.* Prof.
Whalley, A. G. C., CD, MA *Oxon* &
Bishop's, PhD *Lond.*, FRSL, FRSCan Prof
LePan, D. V., BA *Tor.*, MA *Oxon* Prof
Walker, E. A., BA *Tor.*, MA *Camb.* Assoc. Prof.
Stedmond, J., MA *Sask.*, PhD *Aberd.*
Assoc. Prof.
Dean, C., BA PhD *Leeds* Asst. Prof.
Baxter, J. S., BA *Br. Col.* Asst. Prof.
Robertson, D., BA *Tor.*, MA *Johns H.*
Asst. Prof.

Loughheed, W. C., MA Asst. Prof.
Newell, I., MA *Duke*, BLitt *Oxon*, BA Lectr
Sampson, G., MA *Bishop's* Lectr
Crawley, D. F., BA *Manit.*, MA *Oxon* Lectr
9 Assts., 18 Tutors

French

Evans, W. H., BA *Wales*, DUPars Prof.

Geography

Ruggles, R. I., BA *Tor.*, MA *Syr.*,
PhD *Lond.* Assoc. Prof.
Thoman, R. S., MA *Colorado*, PhD *Chic*
Assoc. Prof.
Innis, D. Q., BA *Tor*, PhD *Calif* Asst. Prof.
Løken, O. H., PhD *McG* Asst. Prof.
4 Tutors

Geological Sciences

Hawley, J. E., PhD *Wis.*, MA, FRSCan,
FGSA Miller Memorial Res. Prof.
Ambrose, J. W., AB *Stan.*, PhD *Yale*,
FRSCan, FGSA Prof
Jolliffe, A. W., PhD *Prin.*, MA, FRSCan,
FGSA Prof
Berry, L. G., MA PhD *Tor.*, FRSCan,
FGSA Prof
Fitzpatrick, M. M., MA *Tor.*, PhD *Harv.*
Asst. Prof.
Gorman, W. A., MSc PhD *McG.* Asst. Prof.
Wynne-Edwards, H. R., BSc *Aberd.*,
MA PhD Lectr
25 Tutors

German

Laird, Hilda C., PhD *Corn.*, BLS *Pratt*,
BA Prof.
Euchner, H., BA PhD *Lond.* Assoc. Prof.
Straub, J. F., DPhil *Frib.* Lectr.
4 Tutors

Hebrew

Parker, C. H., BA BD *United Coll.* Lectr

History

Harrison, W. E. C., OBE, MA *Lond.* Prof
Keppel-Jones, A. M., MA *Oxon*,
PhD *Cape T.* Prof.
Smith, Rev. W. E. L., MC, MA DD *Tor.*,
PhD *Edm.* Assoc. Prof.
Gibson, F. W., MA Assoc. Prof.
Wise, S. F., BA BLS *Tor.*, MA Asst. Prof.
Pierce, R. A., MA PhD *Calif*
(Russian H.) Lectr.
Leith, J. A., MA *Duke*, PhD *Tor* Lectr
18 Tutors

Italian, see Spanish and Italian

Law

Lederman, W. R., BA LLB *Sask.*,
BCL *Oxon* Prof
Ryan, H. R. S., QC, BA *Tor.* Prof
Soberman, D. A., BA LLB *Dal.*,
LLM *Harv.* Assoc. Prof.

CANADA

Mewett, A. W., LLB *Birm*, BCL *Oxon*,
LLM SJD *Mich.* Assoc. Prof.
Lawford, H. J., BA LLB *Alta.*, BCL *Oxon*
Asst. Prof.
Gosse, R. F., BA *McG*, LLB *Br Col*,
DPhil *Oxon* Asst. Prof.
MacIntyre, J. M., BCom LLB *Br.Col.*,
LLM *Harv* Asst. Prof.
Slater, T. D., QC, BA †Sp. Lectr.
Wilcox, T. R., QC †Sp. Lectr.
Willoughby, L. S., BA *W Ont.* †Sp. Lectr.

Mathematics

Coleman, A. J., BA PhD *Tor.*, MA *Prin.*
N. F. Dupuis Prof.
Halperin, I., MA *Tor.*, PhD *Prin.*,
FRSCan Assoc. Prof.
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(Astron.) Prof.
Edgett, G. L., MA *Mt. All.*, PhD *Ill.* Prof.
Ellis, H. W., MSc *Acad.*, MA PhD *Tor* Prof.
Hogarth, J. E., BASc MA *Tor*, PhD *Lond.*
Abitibi Assoc. Prof.
Trotter, H. F., Fnd *Prin.*, MA Assoc. Prof.
Kemp, R. D., BA *McM.*, PhD *M.I.T.*
Assoc. Prof.
Wasan, M. T., MA *Bom.*, PhD *Ill.* Asst. Prof.
Obresnu, P. E., Lic *Bucharest* Asst. Prof.
Bures, D. J. C., BA Asst. Prof.
Bush, G. C., BA *McM.*, SM *M.I.T.* Asst. Prof.
Kirby, B. J., BA *Tor* Lectr.
Krotkov, Mrs. Valentina N., BA *Moscow*,
MA *Tor.* Instr
Emery, C. L., MSc Instr
11 Tutors

Medicine, see below

Music

George, G., MusDoc *Tor.* Assoc. Prof

Nursing

Weir, Jenny M., BSc *Alta.*, AM *Col*
(Pub. Health) Assoc. Prof., Dir. of Sch.
Moulton, Evelyn, AM *Col.*, BNSc Asst. Prof.
Wilson, G. E., MD *Tor*
(Mental Hyg.) †Sp. Lectr.

Philosophy

Duncan, A. R. C., MA *Edin.*
John & Ella G. Charlton Prof.
Estall, H. M., MA *McG*, PhD *Corn.* Prof.
Carter, W. B., MA PhD *Tor* Lectr.
Watts, R. L., BA *Tor*, MA *Oxon* Lectr.
Fell, A. P., AM *Col*, BPhil *St. And.* Lectr.
Robinson, T. H., MA Lectr.
MacLeod, A. M., MA *Glas* Lectr.
MacLachlan, D. L. C., MA *Glas* & *Yale* Lectr.
2 Teaching Fellows, 7 Tutors

Physical and Health Education

Bartlett, F. L., BA *Tor.* Prof., Dir. of Sch.
Edwards, J. F., AM(PE) *Mich.*, BA Assoc. Prof.

Tindall, F., AB *Syr* Asst. Prof.
Ross, S. Marion, AM *Col.*, BA Asst. Prof.
Lenard, A. L., BA *BPHE* Asst. Prof.
Leggett, Dorothy, BS *McG*, MSc *Wis.* Lectr.
Turnbull, Anna C., BSc(PE) *McG.* Lectr.
Galasso, P. J., BA *BPHE* Instr.
Ohlendorf, H., DipPE *Cologne* Instr.
6 Assts

Physics

Sargent, B. W., MBE, PhD *Camb.*, MA,
FRSCan McLaughlin Res. Prof.
Watson, E. E., MSc *McG*, PhD *Camb.* Prof.
Cave, H. M., PhD *Camb.*, MA Prof.
Roberts, D. T., BSc *Brust.*, PhD *Bum.*
Assoc. Prof.
Whyte, G. N., AM PhD *Prin.*, MSc Assoc. Prof.
Love, H. M., BSc PhD *Belf* Assoc. Prof.
Harrower, G. A., BSc *W Ont.*, MSc
PhD *McG.* Assoc. Prof.
Allen, J. R., MA Asst. Prof.
Taylor, H. W., MSc PhD *Manit* Asst. Prof.
Armstrong, H. L., MSc Asst. Prof.
Puhach, P. A., MSc *Alta.*, PhD *McG.* Asst. Prof.
Conkie, W. R., BASc *Tor*, MSc *McG*,
PhD *Sask* Asst. Prof.
Pederson, E. C. B., BEng MSc *Sask*,
PhD *McG* Lectr.
43 Demos & Tutors

Physiology, see Medicine, below

Political and Economic Science

Knox, F. A., BA, FRSCan Prof.
Curtis, C. A., BA *Tor.*, PhD *Chc.*, FRSCan
Sir John A. Macdonald Prof.
Corry, J. A., LL.D. *Sask*, BCL *Oxon.*,
FRSCan Hardy Prof.
Crawford, K. G., MA *W Ont.*
Prof., Hd, Inst. of Local Govt.
Hodgetts, J. E., MA *Tor*, PhD *Chc.* Prof.
Deutsch, J. J., LL.D. *St M.*, BCom Prof.
Urquhart, M. C., BA *Alta.* Prof.
Skeoch, L. A., BA *McM.*, MA *Tor.*,
PhD *Calif* Prof.
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Rosenbluth, G., BA *Tor*, PhD *Col* Assoc. Prof.
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PhD *Stan.*, BA Assoc. Prof.
Wood, W. D., BA *McM.*, AM PhD *Prin.*, MA
Assoc. Prof., Dir., Indust. Reins. Centre
Meisel, J., MA *Tor.* Assoc. Prof.
Thorburn, H. G., BA *Tor*,
AM PhD *Col.* Asst. Prof.
Young, F. J. L., MA *St. And.* & *Qu.*
(Indust. Reins.) Asst. Prof.
Smith, D. C., BA *McM.*, MA *Oxon.*,
PhD *Harv* Asst. Prof.
Post, G. R., BA Lectr.
Fyfe, S., PhD *Manz.*, MA (Local Govt.) Lectr.
Gunn, J. A. W., BA Sessl. Lectr.
17 Tutors

Psychology

Blackburn, J M, BSc *Lond*, PhD *Camb*. Prof.
James, P H R, BA *Camb*, PhD *Lond*.
R Samuel McLaughlin Res. Assoc Prof
Payne, R W, BA *Alta*, PhD *Lond* Assoc Prof
Inglis, J C MA *Edin*, PhD *Lond*
Foundations Fund Assoc Prof.
Laud, Isabel M, MA *Bed Edin*, FBPsS

Dodwell, P C, BA DPhil *Oxon* Asst. Prof
Campbell, D, MA *Oxon*, PhD *Lond* Asst. Prof
Rabedeau, R G, BS *Wis*, MS *Yale* Lectr.
11 Tutors

Religion

Andrews, Rev E, BA *Dal*, MA PhD *Drew*,
BD *Pine Hill*, Hon DLitt *Mt All* Prof
Mathers, D. M., MABD *St And*, PhD *Col*
Assoc. Prof.

Russian

Coleman, D. J, BA *Camb* Lectr.
Krotkov, M. S, Valentina N., BA *Moscow*,
MA *Tor*. †Instr.

Spanish and Italian

Hilborn, H W., MA PhD *Tor*
(Spanish & Italian) Prof.
Fox, A M, MA *Tor*. (Spanish) Asst. Prof
McDonald, J K, BA *Br. Col*, MA *Oregon*
(Spanish) Lectr.
Johnson, Mrs Loretta, BA *Tor* Instr.
5 Tutors

ENGINEERING

Chemical Engineering

Plewes, A C, PhD *McG*, MSc, FCIC Prof.
Clark, R H, BSc(Eng) PhD *Lond* Asst Prof
Code, R K, BSc *Ill* Asst Prof
Gunn, D J, MSc *Durh* Lectr.
5 Demis.

Civil Engineering

Lash, S. D, DIC, MSc *Lond*, PhD *Bnm*. Prof
Brooks, J. W., MASC *Tor*, BSc Prof.
Kennedy, R. J, MC, MS *Iowa*, BSc Prof
Dauphin, E L, MS *Ill*, BSc Assoc Prof
Edwards, H M, MSCE *Purdue*, BSc
Assoc Prof
Brebner, A, BSc PhD *Aberd*. Assoc. Prof
Lazier, S S, MASC *Tor* Asst. Prof
Townsend, D L., DIC, MEng *McG* Asst Prof
Waller, D H, BEng *N S T C* Asst Prof
Lee, J A N, BSc(Eng) PhD *Nott* Asst. Prof.
Grier, W. G., BASC *Tor* Asst. Prof
MacLachlan, F. A, BSc Lectr.
LeMéhauté, B, LèsSc *Paris*,
IngDr *Grenoble* Sp Lectr.
7 Demis

Drafting

Stinson, W. G, BSc Assoc Prof
Pidgeon, C. W., BSc Lectr.

Mosley, W H, BSc *Burm*.

Bews, D W, BSc †Sp Instr.
Cliff, G. H., BSc †Sp Instr.
Dougherty, J. W, BSc †Sp Instr.
Rogers, H D, BSc †Sp Instr.
2 Demis

Electrical Engineering

Stewart, H. H, MS *Mech*, BSc Prof.
Pollock, H S, MSc Prof.
Campling, C. H. R, SM *M I T*, BSc Assoc. Prof.
Chisholm, R M, MASC PhD *Tor*, BSc
Bennett, J A, MSc Asst Prof
11 Demis Lectr.

Mechanical Engineering

Conn, H G, OBE, MS *Mech*, BSc Prof.
Campbell, J S., MSc Prof.
Gilbert, W D, SM *M I T*, BSc Prof.
Rice, W B., BSc *SnG Wms*, MEng *McG*,
DesScApp *Montr* Assoc Prof.
King, P C, CD, BSc Assoc Prof
Cornell, E. R, PhD *Lond*, BSc Lectr.
12 Demis

Metallurgy

Carson, O A, AM PhD *Col*, BSc Prof.
Hames, F A, BSc *Montana*, PhD *Missouri*,
MSc Prof
Light, D E, MSc Asst Prof
Cliff, G H, BSc †Sp. Instr.
3 Demis

Mining Engineering

Corlett, A V., BSc *Algoma Ore Properties* Prof.
Thompkins, R W, BSc Asst Prof.

MEDICINE

(for subjects of the first year—Chem., etc.,
see above)

Anæsthetics

Vandewater, S L, MD *Tor*, FRCPCan
Assoc. Prof.
Campbell, W A, MD CM †Asst. Prof.
Mahood, J H S, BA MD CM †Lectr.
Edwards, K F, MD *Tor*. †Clin Asst.
Nekus, V A., MD *Kansas* †Clin. Asst.
Russell, E S, BA *Sask*, MD *W Ont*

Little, M H, MD *Tor* †Clin Asst
1 Fellow †Clin Asst

Anatomy

Basmajian, J V, MD *Tor*. Prof.
Laurenson, R D, MB ChB *Aberd*. Asst Prof.
Sandborn, E, MD *Manit* Lectr.
Jones, W A, OBE, VD, CD, MD *W Ont*,
FRCPCan, FFR, FACP (Radiographic A.) †Sp. Lectr.
5 Fellows

Bacteriology

Orr, J. H., MD CM, FRCPCan, FRSCan Prof.
 Hinton, N. A., DipBact Lond, MD CM
 MScMed Assoc Prof
 Milazzo, F. H., BS *W. Virginia Wesleyan*,
 MS PhD *Syr.* Asst Prof
 1 Demr.

Biochemistry

Beveridge, J. M. R., BSc *Acad*, PhD *Tor*,
 MD *W Ont*, FRSCan Craine Prof
 Hurst, R. O., BA PhD *Tor* Assoc Prof.
 Rattray, J. B. M., BSc PhD *St And* Asst Prof
 Kulsis, A., MS *Iowa State*, PhD Asst Prof.
 6 Demrs.

Embryology and Histology

Kropp, B. N., AM PhD *Harv* Assoc Prof
 Jollie, W. P., MS *Lehigh*, PhD *Harv.* Lectr

Gynaecology, see Obstet and Gynaecol.**Medical Jurisprudence**

Tweddell, J. T., MD CM, FACP †Lectr

Medicine and Clinical Medicine

Connell, W. F., MD CM, FRCPCan, FACP Prof
 Brown, G. M., DPhil *Oxon.*, MD CM,
 FRCPCan, FACP Prof
 White, D. N., MA MD *Camb.*, FRCPCan,
 FACP (Neurol.) Prof
 Kelly, H. G., MD CM, FRCPCan,
 FACP Assoc Prof.
 Wilson, D. L., MA MD CM, FRCPCan
 Assoc Prof
 Milliken, J. A., MD CM, FRCPCan Assoc Prof.
 Hopkins, B. H., MB *Tor.* †Asst Prof.
 Young, B., MD CM †Asst Prof
 Robinson, S., MD CM †Lectr.
 Tweddell, J. T., MD CM, FACP †Lectr
 Danby, C. W. E., MD CM, FRCPCan †Lectr
 McCracken, G., MD CM, FRFSGlas †Lectr
 Bird, H. G., MB *Tor.*, FRCPCan †Lectr
 Gibson, J. E., BA MD CM †Lectr
 Fay, J., MB BS *Lond*, FRCPCan †Lectr
 Mayer, G. A., MD *Bud*, MScMed †Lectr
 Valberg, L. S., MD CM †Lectr.
 Dingwall, R. W., MD CM MScMed

†Clin Asst
 Cronk, L. B., MD CM, FRCPCan †Clin Asst
 Loynes, J. S., MD CM MScMed †Clin Asst
 Jacobs, H. E., MD *Freib* †Clin Asst.
 Page, J. O., MD, CM MScMed †Clin Asst.
 Nausmith, J. T., MB ChB *Glas.* †Clin Asst
 2 Fellows, 1 Clin. Tutor

Obstetrics and Gynaecology

Robertson, E. M., MB ChB *Edin.*, FRCOG,
 FRCSEd, FRCSCan Prof
 Mylks, G., BA MD CM, FACS †Assoc. Prof
 McLeod, P. A., CD, BA MD CM,
 FRCOG, FRCSCan †Assoc. Prof
 Merritt, R. I., MD CM, FRCSCan Asst. Prof

Clow, L. R., MD CM, FRCSCan †Clin Asst
 O'Connor, L. N., MD CM †Clin Asst
 1 Clin. Tutor

Ophthalmology

Rosen, D. A., BSc MD CM *McG.*,
 FRCSCan Prof
 McBroom, J. G., MD CM †Asst Prof.
 de Margerie, J., BA MD *Laval*,
 DPhil *Oxon* †Asst Prof
 MacPherson, G. B., BA MD CM †Lectr
 Beswick, J. A., MD *Tor.* |Clin. Asst

Oto-Rhino-Laryngology

MacPherson, G. B., BA MD CM †Asst. Prof
 McBroom, J. G., MD CM †Asst Prof
 Purvis, J. R., MD CM †Clin. Asst.

Pædiatrics

Bryans, A. M., MD *Tor*, FRCPCan Prof
 Fay, J., MB BS *Lond.*, FRCPCan †Lectr
 O'Connor, F. J., MD CM †Clin Asst
 Delahaye, D. J., MD CM †Clin. Asst.
 Geiger, D. W., MD CM †Clin Asst
 Reid, J. D., MD CM, MRCPEd †Clin. Asst

Pathology

More, R. H., MD *Tor*, MScMed *McG.* Prof
 Kiplae, G. F., MSc *McG*, MD CM
 Assoc Prof
 Waugh, D. O. W., MD CM MScMed
 PhD *McG* Assoc Prof.
 Bencosme, S. A., MD *Montr.*, MSc
 PhD *McG.* Assoc. Prof
 Steele, H. D., MD CM Asst. Prof
 Haust, Mana D., MD *Heidel*, MScMed
 Asst. Prof
 Mabini, T. R., MD *Philippines* Lectr
 Rota, A. N., MD *Tor* †Instr
 2 Fellows

Pharmacology

Boyd, E. M., MA MD CM Prof.
 McEwen, H. D., PhD *Roch*, MA Assoc. Prof.
 Vishwakama, P. P., MB BS *Patna*,
 PhD *Cinc* Lectr
 1 Fellow

Physiology

Ettlinger, G. H., MBE, DSc *W Ont*,
 BA MD CM, FRCSCan Prof.
 Hatcher, J. D., MD PhD *W Ont.* Prof.
 Semple, R. E., MA *Br. Col.*, PhD *Col*
 Assoc. Prof
 Sawyer, Mrs. Margaret E. M., MA
 PhD *McG.* Assoc. Prof.
 4 Fellows, 2 Tutors

Psychiatry

Sloane, R. B., MD DPM *Lond*, ARCP Prof.
 Laverty, S. G., BSc MB ChB *Edin*,
 DPM *Lond*, MRCP Asst Prof

James, E. A., MD CM †Lectr
Haden, P., MB BChir *Cambridge*, DPM *Lond*,
MRCP †Lectr
Christie, P., BA *Tor*, MD CM *McG* †Lectr
Billings, R. M., MD CM †Clin Asst
Scott, G. D., MD CM †Clin Asst
Wilson, G. E., MD *Tor* †Clin Asst
Holland, L., BSc MD CM *Dal* †Clin Asst
Watts, T. P. S., MB BS *Lond* †Clin Asst

Public Health and Preventive Medicine

Kelly, R. A., MD CM DPH †Lectr.

Radiology and Physical Therapy

Burr, R. C., MD CM, FRCSEd, FRCSCan †Prof.
Fransman, S. L., MD *Amst* Prof
Colwell, B. T., BA MD *W Ont*, DMR †Lectr
Beattie, W. H., BA MD *W Ont*, DMR(D) †Clin Asst

2 Demrs

Surgery

Bingham, D. L. C., MB ChB *Edin.*, FRCSEd,
FRCSCan, FACS Prof
Boucher, D. W., MD CM, FRCSEd,
FRCSCan †Assoc. Prof.

Lynn, R. B., MD CM, FRCSEd,
FACS (Cardiovasc & Thoracic S) Assoc Prof.
Tilley, A. R., OBE, MD *Tor*, FACS
(Plastic S) †Asst Prof
Hetherington, R. F., MD *Tor*, DPhil *Oxon*
(Neuro-S) Asst. Prof
Melvin, W. J. S., BA MD CM, FRCSEd
(Orthop S) †Asst Prof
Ghent, W. R., MD CM, FRCSCan †Asst Prof
Warner, H. M., BSc MD CM *McG*,
FRCSCan †Asst Prof
Broom, J. C. W., DDS *Tor* (Dental S.) †Lectr
Hazlett, J. W., MD *Tor*, FRCSCan
(Orthop. S.) †Lectr
Derby, A. C., BSc MD CM *McG*,
FRCSCan, FACS Lectr
Neuman, H. W., MD CM, FRCSCan †Lectr
Kerr, J. W., MD CM, FRCSCan †Lectr
Lindsay, G. C., MD CM †Clin Asst
Gowland, J. H. C., DDS *Tor*
(Dental S.) †Clin Asst
Koster, B. M., MD CM *McG* †Clin Asst
4 Teaching Fellows, 1 Clin Tutor

Urology

Bruce, A. W., MB ChB *Aberd*, FRCSEd, FACS
White, E. P., MD CM, FRCSEd †Asst Prof

ADMINISTRATIVE AND OTHER STAFF

Dir of Univ. Extension & Dir of Summer
Sch. H. W. Curran, BS *Hobart (N Y)*, MA PhD
Mich. Asst Sec. J. W. Bannister, BCom.
Asst Registrar K. Jean Richardson, BA. Univ.
Chaplain Rev. A. M. Laverty, BA *Tor.*, BD
Emmanuel (Sask) Warden, Students' Memorial
Union J. E. Wright, MBE Dir of Pub. Rela-

tions D. S. Swain, BJ *Car* Chief Examination
Proctor R. L. Dorrance, MA Med Officer
H. M. Campbell, MD CM Univ. Nurse, Mrs
Florence Paul, Curator, Agnes Etherington Art
Centre A. Bieler Dir of Radio. Margaret
Angus, BA *Montana*

AFFILIATED COLLEGE

QUEEN'S THEOLOGICAL COLLEGE, Kingston,
Ontario (tel. Liberty 6-1731). Incorporated in
1912 Religious denomination United Church
of Canada Provides courses leading to testamur

in theol and BD of the Univ. Principal & Prof
of NT Lit & Criticism—Rev E. Andrews,
BA *Dal*, MA PhD *Dretn*, BD *Pine Hill*, Hon
DLitt *Mt All* 4 other Profs, 3 Lectrs.

GENERAL INFORMATION

Founded in 1841 by royal charter issued by
Queen Victoria, the purpose of Queen's Coll at
Kingston was, under the sponsorship of the
Presbyterian Church of Canada in connexion
with the Church of Scotland, to provide, within
the country, trg for the ministry and educnl
facilities for the youth of a growing economy in
a vast area without such educnl opportunities.
When the 1st session began Queen's was the only
active degree-granting coll betw the maritime
provinces and the Pacific. It was modelled on
the Univ of Edinburgh, and Scottish academic
influences have helped to mould its character

As the coll developed, its constitution was
broadened by successive acts of parliament and
the slender denominational requirements of 1841
were gradually eliminated until in 1912 an act
was passed by the dominion parliament removing
all trace of denominational control. What had
been the fac. of theol became the indep Queen's
Theol Coll (see above) and the original Queen's
Coll became Queen's Univ at Kingston, a
national institution privately endowed and
privately controlled.

In 1854 the medical fac was establd., it was
reorganized in 1866 as the Royal Coll. of Physicians

and Surgeons in affiliation with the univ, but in 1861 the original status was resumed. Opened in 1861, the fac of law closed in 1864 and, after a further 3 yrs of existence, again in 1883, as the result of a change in the regns of the Law Soc of Upper Canada and the reorg of Osgoode Hall, the fac was restored in 1957. A sch of mining was founded in 1893 as a sep instn under an Ontario charter, amalgamated with the univ in 1916 and now constitutes the fac of appl sci. The sch of comm & admin (now the sch of bus) was establd in 1919, the sch of nursing in 1942 and the sch. of phys & health educn in 1947.

CONSTITUTION. The admin of the univ is vested in the bd. of trustees, the univ council, the senate and the fac bds. The bd. of trustees is composed of the chancellor, principal and rector, representatives of the council, theol coll, the grads. and benefactors, and 12 members selected by the bd. Its functions are to manage the finances and property, to procure legislation, to appoint instrs. and other officers on the advice of the principal, and to attend to such external matters as do not relate directly to instrcn. The univ. council consists of the chancellor, the trustees, the senate and grads. elected from their own membership. The council discusses all questions relating to the univ and makes representation of its views to the senate or bd of trustees. The senate is made up of the principal, vico-principal, principal of the theol. coll., deans of facs, 3 profs from each of the facs of arts & sci, appl sci. and med., 1 prof. from the fac of law, and 1 prof from the fac of Queen's Theol. Coll. The senate determines all academic matters which concern the univ as a whole, and enforces the statutes, rules and ordinances of the univ. The fac bds, which have the power to administer their own affairs under such regns as the bd of trustees may prescribe, are each made up of the dean, profs, assoc profs, asst profs, lectrs (in arts & sci., after 1 yr's experience), and, in the fac of arts & sci., the univ librarian.

INCOME (1959-60) Total income, \$4,783,000 (govt grants, 42.8 per cent, fees, 34.4 per cent; endowment, 13 per cent, musc, 9.8 per cent.)

FACULTIES AND DEANS. See p 290

UNIVERSITY CAMPUS Queen's Univ has a campus of 70 acres reaching at some points to the shores of Lake Ontario. Over the past decade the univ. has engaged in an extensive bldg programme. 40 per cent of the permanent bldgs now standing have been opened during that period. One of the significant parts of this programme is the increase in residence accomm for both men and women. There are also increased facilities for work in the pure and appl scis. and in library services.

LIBRARY (the Douglas library) 400,000 vols. Sp. collections: (1) Canadiana—Lorne Pierce collection (incl rare items, MSS., 1st edns.), R. S. McLaughlin historical collection, Shortt-Haydon print & portrait collection; (2) John Buchan

memorial collection—library and private papers of John Buchan, Lord Tweedsmuir; (3) McNicol collection—books and documents on telecommunication and radio. Music room contains musical scores, 3500 gramophone records. Agnes Etherington art centre arranges art exhibitions & discussions, and sp classes in art.

MUSEUMS Herbarium (35,000 specimens), geol., mineral, ethno (rich N. American stone-age collection).

LABORATORIES Biol., chem., geol., phys., engin (mining, mech., metall., electr., civil). Easy access to important locomotive shops, dry-docks, canal locks, water-power stations, mines, metallurgical works. Exceptional natural facilities for geol study.

COMPUTING CENTRE for advancement of res.

HOSPITALS available for clinics, 2 general, 1 for insane.

ADMISSION. See Appendix III

FIRST DEGREES 3 yrs from sr matric—gen. BA 4 yrs from sr matric.—BA with hon (in classics, Engl., French, German, geog., hist., maths, philos., pol & econ sci., psychol., Spanish), gen BA & BPHE, BSc with hon (in biochem., biol., chem., geol sci., phys., physiol.), BSc in engin (chem., civil, electr., mech., metall., mining), geol sci., phys., chem. (analyt. and appl.), BCom. 5 yrs from sr. matric.—BNSc 6 yrs from sr matric.—MD.

HIGHER DEGREES 1 yr.—MA (in all subs in which an hon BA may be taken), MSc (in all subs in which an hon. BSc or BSc in engin. may be taken). 2 yrs.—MSc(Med) (after MD), MBA (2 yrs after completion of a degree from an approved univ.), PhD (after master's degree, all facs), 3 yrs.—LLB (after BA), BD. Courses leading to these degrees are open to grads. of other univs.

HONORARY DEGREES LL.D., DD., DSc.

The univ. does not award EXTERNAL DEGREES.

DIPLOMAS, ETC 1 yr from sr matric and nursing grad—pub health nursing, teaching & supervision in hosp schs. of nursing, 1 yr from degree in arts, sci., engin., comm.—bus admin, 1 yr from BSc—grad dipl in engin., nuclear engin 3 yrs. from sr matric—testatur in theol 4 yrs from MD incl trg in recognized radiol dept—med. radiol. (diag. & therapy), 4 yrs from MD—anaesthesia.

FEES p.a. (class, exam and student interests) in arts & sci., \$455, comm., \$455, BSc in arts & sci., \$470, appl sci., 1st and 2nd yrs, \$545, 3rd & 4th yrs, \$595, med., 1st & 2nd pre-med., \$470; 1st and 2nd, \$470 & 4th yr med., \$595, phys. & health educn., \$470, nursing, 1st yr, \$455; 2nd, 3rd & 4th yrs., \$510, 5th yr, \$470, law, \$455.

ACADEMIC YEAR Winter session, 2 terms Sept to Dec, Jan to May.

UNIVERSITY EXTENSION Correspondence courses for teachers and others unable to pursue full degree courses in arts. Candidates for degrees must be in attendance at the univ for 4 summer schs (6 wks in July and Aug), or 2 winter sessions, or 1 winter session and 2 summer schs and must complete within that period not fewer than 7 courses. The final written exams are the regular univ exams. Extension tutorial classes supplementing the work by correspondence are conducted by members of the univ staff and others in various centres. Other activities organized or assisted by the dept are: a series of public lectures at the univ, a concert series, short courses and conferences which vary from vocational to cultural, individual lectures by members of staff, material provided for study groups and drama groups, an annual series of vocational and special interest talks given to inmates of Collins Bay and Kingston penitentiaries; evg non-credit courses.

Banking courses lead to dipl of associate or fellow of the Canadian Banking Assocn., tuition is available by correspondence to members of Canadian banks. By agreement with the Ontario Institute of Chartered Accountants, Toronto, the tuition for their course, leading to the CA's cert., is given by the univ. A 2-yr course leading to a dipl is administered for the Trust Companies Assocn of Canada, executive development courses, seminars and conferences at various levels of management are offered by the sch of bus.

SUMMER SESSION Six wks, beginning early in July. Some credit courses are offered in entirety at the summer session, others have exercise requirements during May and June in prep for lectures at the summer sch. Non-credit courses in ballet, painting and music are offered each yr as sp features in the summer sch. In addn, the Inst. d'Études Anglaises for French-speaking Canadians is offered each yr (see 'Vacation Courses', below).

VACATION COURSES Institut d'Études Anglaises is held each summer for 6 wks and is intended particularly for French-speaking Canadians who wish to learn English. The sch of the fine arts, incl instructn in art, ballet, drama and music, is held each summer for 6 wks.

ENTRANCE SCHOLARSHIPS 10 provincial scholps, value \$2000 each; 9 Ontario matric scholps, value \$1500 each; 8 Ontario matric scholps, value \$900 each; 55 other scholps ranging in value from \$25 to \$4000, incl Dieppe scholp \$350, awarded for man or woman whose father took active part in Dieppe raid, scholp offered by Ontario Hockey Assocn, \$180, 3 General Motors Canadian scholps, ranging from an hon award of \$200 to \$2000 p a, Union Carbide Co scholps, \$2500 each, and Steel Co of Canada Ltd scholps, \$700 in 1st & 2nd yrs, \$500 in 3rd & 4th yrs, open to students entering comm and engin, scholps for Ontario students entering courses in sci, Assocn of Professional

Engineers for province of Ontario scholp, \$500, awarded in alternate yrs, Lincoln Mfg scholps in engin, \$400, Dofasco scholp, \$2400 (\$500 p a for 4 yrs), Anglo-Canadian Pulp and Paper Co scholp, \$2400 (\$600 p a for 4 yrs); Roy H. Davis scholp, \$4000 (\$1000 p a for 4 yrs), Automatic Electric Co scholp, \$2100 (\$600 in 1st yr, \$500 in 2nd, 3rd & 4th yrs); Inco scholp, free tuition & cash grant of \$300, Thompson Prod Ltd scholps, \$2400 (\$600 p a for 4 yrs), R F Segsworth scholp, \$1000, payable over 4-yr period, Canadian Bechtel bursary in engin, \$600.

'OPEN' POSTGRADUATE AWARDS R S McLaughlin fellowships, 12 of \$1200-\$1500 plus grant of \$200 p m up to a max of 4 mos if res extended beyond regular session, for grad work in humanities, soc scis, maths, biol scis, geol, scis, chem, phys and engin, Steel Co of Canada Ltd fellowship, \$1500, for res in ferrous metall, C I L fellowship in chem and chem engin, \$2000, J Lansley fellowship in econ geol & mineral, 2 of \$800 each, Northern Electr Co fellowship, \$1500, for grad work in electr, mech engin, chem, phys, Comenco fellowship, \$1000 for res in non-ferrous metals, chemicals or fertilizers, Shell Oil fellowship, \$1200 plus \$600 if summer work undertaken, for grad work in chem, chem engin, mech engin, geol, phys and geophys, R S McLaughlin teaching fellowships in mech. engin, 2 at \$2200, for grad work in mech engin, tenable for 2 yrs, C J Hicks fellowship, \$1100, for res in indust relns, Gerald Row Foundation in Engl, \$1800, E L Bruce Memorial scholp in geol, \$200 plus tuition. Following fellowships carry with them addnl awards to bring total value to \$750. St James Adams fellowship in Canadian hist, \$400, Western Ontario grads fellowship in hist, \$320; G M Milligan fellowship in philos, \$550, M. Hersey fellowship in chem, \$400, W Nash fellowship in chem, \$400.

RESIDENCES (tel.: as for univ.) Ban Righ Hall (University Ave.), Adelaide Hall (University Ave.), Chown Hall (Stuart St) and annexes have rooms for 440 women students and refectory accomm for approx. 600. The annexes include Baker House, Goodwin House, Gordon House, Matheson House, Muir House, Macdonnell House Board and lodging from \$576 to \$600 for full session. McNeill House, Morris Hall and Leonard Hall, the men's residences, are the first 3 units of a bldg project which provides accomm for most first-yr men students and a proportion of upper-classmen selected to represent the various facs and scis. There is accomm for 610 men. Board and lodging for session from \$570 to \$600. Berry House and Collins House, operated by the Science Co-operative Inc., are open to men students of all facs. Room and board per wk for session 1960-61 was \$14. Berry House and Collins House together accomm 34 men students. Bouche House, a co-operative house for women students, accomm 21.

STUDENTS' MEMORIAL UNION Every male student is a member of the students' memorial union. The union has a dining-hall, lounge and billiard rooms, reading rooms, canteen rooms and guest rooms for alumni and visitors to the univ.

MILITARY SERVICE The univ naval trg div., the Canadian officers' trg corps and the R C A F reserve univ flight offer courses of trg. which extend over the greater part of a student's univ course. Undergrads may apply for a permanent Commission under the regular officer trg plan.

STUDENT HEALTH SERVICE. Students are expected to provide their own hosp insurance through the Ont Hosp Services Commission or other orgn. In addn, med., surg, anaesthetic and nursing benefits are provided for all students through the univ health service.

EMPLOYMENT SERVICE The employment

bureau assists grads and undergrads. in all facs. to secure suitable positions, and helps students to obtain work during vacation periods.

ATHLETIC FACILITIES. Gymnasium with swimming-pool of full Olympic size, large covered skating rink with artificial ice, and football field. Room and equipment for all students who wish to take part in football, hockey, badminton, basket-ball, field hockey, tennis, track athletics, archery, swimming, diving, boxing and wrestling. Good ski-ing about 5 mls. from the univ.

ALUMNI ORGANIZATION. Alumni assocn grads, 17,364.

PUBLICATIONS *Calendars* (by facs and schs), *Admissions Bulletin*, *Scholarship Pamphlet*, *Fellowship Bulletin*; *Queen's Quarterly* (\$4 p a); *Queen's Journal*; *Queen's Review* (Alumni Assocn).

THE YEAR 1960

PRINCIPAL BENEFACCTIONS R. Samuel McLaughlin Foundation, \$182,100; Atkinson Charitable Foundation, \$47,500, John Lindsay Fund, \$40,500, Ford Foundation, \$31,600.

MAJOR BUILDING DEVELOPMENTS Bldgs completed: law bldg.

RETIREMENTS Prof J C Cameron (indust relns), Prof H W Harkness (phys), Prof R L Jeffery (maths), Prof D M Jemmett (electr. engin), Prof W. A. Jones (radiol), Prof F M Wood (maths), S. W Houston (surg).

RESIGNATIONS E A Carlson (biol); J B Dunlop (law), A. R Johnston (phys); J D. Lee (civil engin), A LeGrand (French), Lois Thierman (French).

DEATHS O Martin (assoc prof of civil engin).

HONORARY DEGREES LLD—B C Diltz, dean, Ont Coll of Educn, Toronto, R O Earl, emer prof of biol and former dean, arts and sci, Kingston, R Farquharson, retiring prof. of med., Tor., E. C. Guillet, historian, Toronto, Y Karsh, photographer, Ottawa, A E O'Neill, Oshawa; Z S. Phumister, dir of educn, Toronto, J J Robinette, treasurer, Law Soc of Upper Canada, Toronto; J A Stevenson, journalist, Ottawa, C A Wright, dean, fac of law, Tor DD—Rev G S Maxwell, Peterborough, Rev R E Vipond, Regina DSc—W B Lewis, vice-pres of res and development, Atomic Energy of Canada Ltd, Chalk River, L R Thiesmeyer, pres, Pulp and Paper Res Inst of Canada, Montreal.

Statistics

STUDENT NUMBERS, 1960-61

	Extra-Mural, Extra-Mural, Summer		
	Intra-Mural	Winter	Summer
Men	2233	994	394
Women	888	697	271
Total	3121	1691	665

In addn, there were 1075 students (504 m, 571 w) in the 1960 summer sch.

Distribution by Faculties Appl sci, 866, arts and phys & health educn, 134, arts & sci, 1335, bus, 103, grad studies, 219, law, 63, med, 330, nursing, 71. Total: 3121.

Included in the intra-mural figures above are —

Postgraduate students, 219

First-year students, 933

Students from other countries, 214. (Countries from which largest numbers came: U S A, 46, U K, 37, W Indies Fed, 30)

DEGREES AWARDED (1959-60) BD, 3; PhD, 4, MA, 8, MSc (arts & sci), 20, BA (hons), 40, BSc (hons, arts & sci), 22, BA, 241; BCom, 27, MSc (engin), 21, BSc (hons, engin), 23; BSc (engin.), 216, MSc(Med), 3, MD CM, 52; LLB, 18, BNSc, 14, BPhE, 17.

DIPLOMAS AWARDED (1959-60) Med radiol (diag.), 3, bus admin., 6, pub health nursing, 7; teaching and supervision in hosp. schs of nursing, 2.

CERTIFICATES AWARDED (1959-60) Indust relns, 9.

ROYAL MILITARY COLLEGE OF CANADA*

Founded 1876

Postal Address Kingston, Ontario, Canada

Cables and Telegrams Royal Military College, Kingston, Ontario

Telephone (General Information) Liberty 2-2841

PRESIDENT—THE MINISTER OF NATIONAL DEFENCE (*ex officio*)

COMMANDANT—Brigadier W A B ANDERSON, OBE, CD, BA Qu

VICE-COMMANDANT AND DIRECTOR OF STUDIES—Col. W R SAWYER, OBE, MSc LLD Qu., PhD McG, FCIC

REGISTRAR AND SECRETARY OF THE FACULTY—Lt -Col T F GELLEY, BA Manit, MA Qu.

STAFF ADJUTANT—Lt -Col J C GARDNER, CD

ADMINISTRATIVE OFFICER—Lt -Col L V PERRY, MC, CD

LIBRARIAN—J. W SPURR, BA BEd Acad

TEACHING STAFF

[†=Part-Time]

Chemistry and Chemical Engineering

Sawyer, W R, OBE, MSc LLD Qu.,
PhD McG, FCIC Prof.
Dacey, J R, MBE, MSc Dal, PhD McG.,
FCIC Prof.
Naldrett, S. N., MSc Alta, PhD McG Prof.
Disper, D. G. M., MA DPhil BSc Oxon.,
FRIC, FCIC Assoc Prof
Jones, R A., MSc W Ont, PhD McG Assoc Prof
Furter, W F., BASc PhD Tor, SM
MIT Assoc Prof
Phillips, A. M., BSc Lond, MSc Clarkson Lectr
Gall, C. E., BASc Tor Lectr
Hill, J H M., BSc PhD Belf Lectr
Gatzke, A L., BA MSc Br.Col Lectr
Simonds, Capt C R., BSc Qu Lectr
McCready, J. C., BSc Qu Tech. Officer

Engineering, Chemical, see Chem.

Engineering, Civil

Dolphin, J. W., BASc Br Col,
MS(CE) Minn. Prof
Ellis, J S., BSc Qu, MEng McG.,
PhD Camb Prof
Hughes, G T., MSc Alta. Assoc. Prof.
Geneau, FI Lt. J A., BSc New Br Asst Prof
MacGowan, Capt J P, BSc Qu Lectr.
Stewart, FI Lt J A., BSc Qu. Lectr
London, T. A., BASc Br Col Lectr.
Gorman, W A., MSc PhD McG †Lectr

Hames, F A., BC Montana, MSc Qu.,
PhD Missouri

†Lectr

Engineering, Electrical

Hetherington, F E., MSc Qu Prof.
Broughton, M B., BSc W.Ont.,
MSc Tor. Asst Prof
Winter, D A., MSc Qu Asst Prof.
Tamowski, Sqn -Ldr H. J., BASc Tor Lectr
Cory, A H H., BSc Lond Lectr
Carruthers, Capt F R., BSc Qu,
MEng McG Lectr
Pearse, C D., MSc Br Col & McG Lectr.

Engineering, Mechanical

Sheppard, Sqn -Ldr K F., BASc Tor Assoc. Prof.
Pike, J G., BSc Qu, MSc Brym. Asst Prof
Moore, Lt (E) K W., CD, BASc Br.Col Asst Prof.
MacDonald, Capt J A., CD, BE N S T.C.,
MSE Mich Asst Prof.
Leonard, Capt. A. C., MBE, BSc Sask.,
MSE Mich Asst Prof.
Swartman, R. K., MSc Qu Lectr.
Warkentin, R. W., MSc Qu Lectr.
Gordon, J. R. M., BASc Br.Col Lectr.
Whitton, D. M., BSc Qu Lectr.
King, Lt -Col P C., CD, BSc Qu Sp Lectr

* Additional Member of the Association of Universities of the British Commonwealth

English

Watters, R E, MA <i>Tor</i> , PhD <i>Wis</i>	Prof
Avis, W S., MA <i>Qu.</i> , PhD <i>Msch</i>	Assoc. Prof.
Wilson, H. R., MA <i>Tor</i> , PhD <i>Msch</i>	Asst. Prof.
Beharrell, S R., MA <i>Tor</i> , PhD <i>Wis</i>	Asst. Prof.
McAdam, J. I., BA <i>New Br.</i> , MA <i>Qu.</i> , PhD <i>Lond</i>	Asst. Prof
Booth, M R., BA <i>Br Col</i> , MA PhD <i>Lond</i>	Asst. Prof

French, see Mod Langs

German, see Mod Langs.

History

Stanley, G F. G., BA <i>Alta</i> , MA BLitt DPhil <i>Oxon</i> , FRHistS, FRSCan	Prof
Preston, R A., MA <i>Leeds</i> , PhD <i>Yale</i> , FRHistS	Prof.
Cappadocia, E, MA <i>Tor</i> , PhD <i>Chic</i>	Assoc. Prof
Schurman, D M., MA <i>Acad & Camb</i> , PhD <i>Camb</i>	Assoc. Prof
Thompson, F F., MA <i>Dal</i> , DPhil <i>Oxon</i>	Assoc. Prof.

Mathematics

Elliot, H. A., MA <i>Camb.</i> , PhD <i>Brist.</i>	Prof.
Davis, H F., MSc PhD <i>M.I.T.</i>	Assoc. Prof.
Miller, R F., MA <i>Tor</i> , PhD <i>Camb</i>	Assoc. Prof
Antliff, W. B., BSc <i>McG</i> , MA <i>New Br.</i> , PhD <i>Qu</i>	Asst. Prof
Hiscocks, J. D., MA <i>Tor</i>	Lectr
Dignum, F I. Lt. R., BSc <i>Lond.</i> , MSc <i>McM</i>	Lectr.

Military Studies

Ley, Lt -Cmdr H. R. H	Assoc. Prof
Wiltshire, Sqn -Ldr W F, CD	Assoc. Prof
Jefferson, Major K. I., CD	Assoc. Prof

Modern Languages

Tougas, G R., BA <i>Alta</i> , MA <i>McG</i> , PhD <i>Stan</i>	Prof
Lauzière, A E., BA <i>Ott.</i> , MA <i>Mont.</i> , DUPais	Assoc. Prof

Labbé, G, BA *LèsL Monts*, PhD *Paris*

Leroux, N., MA <i>Montr.</i> , DUCaen	Asst. Prof.
Therault, J A., BA <i>Ott</i> , MA PhD <i>Laval</i>	Asst. Prof
de Margerie, Y., BA <i>Ott</i> , LèsL MA <i>Laval</i>	Lectr
Plastre, G., MA <i>Montr</i>	Lectr
Gauthier, P., BA <i>Paris</i> , MA <i>LèsL Montr</i>	Lectr

Physics

Hutchison, T. S., BSc PhD <i>St. And</i>	Prof.
Jackson, L C., MSc <i>Lond</i> , PhD <i>Ley</i> , FIP	Prof
Edwards, M H., MA <i>Br Col</i> , PhD <i>Tor</i>	Assoc. Prof.
Rogers, D H., MSc <i>Dal</i> , PhD <i>M.I.T</i>	Assoc. Prof
Baird, D. C., BSc <i>Edin.</i> , PhD <i>St And</i> ,	Assoc. Prof
Paul, D A L., MA <i>Camb.</i> , PhD <i>Qu</i>	Asst. Prof
Filmer, A J., MSc <i>Alta</i>	Lectr
Lowther, L H., BSc <i>Acad</i>	Tech Officer

Political and Economic Science

Malach, V. W., BA BCom <i>Qu</i> , PhD <i>Lond</i>	Prof
Beck, J M., MA <i>Acad & Tor.</i> , PhD <i>Tor</i>	Prof
Brown, T. M., BA <i>W Ont</i> , MA <i>Tor</i> , PhD <i>A N U.</i>	Prof.
Newcombe, C. W., BCom <i>Qu.</i>	Assoc. Prof.
Cairns, J P., BA <i>Tor</i> , MA <i>Col</i> , PhD <i>Johns B.</i>	Asst. Prof
McArthur, N M MA <i>W Ont</i> , PhD <i>Msch</i>	Asst. Prof
Binhammer, H H F., BA <i>W Ont</i> , MA <i>Qu.</i> , PhD <i>McG</i>	Asst. Prof

CADET ORGANIZATION

Gardner, Lt -Col J C, CD	O/C Cadet Wing
McLeod, Maj W J, MC, CD	Athletic Dir
Shackell, Lt S W	Offr i/c P T
Wallis, Fl Lt A D, BA	Sqn Comd
White, Fl Lt A M J, BA	Sqn Comd
Thomas, Lt W F J, BCom <i>Sask</i>	Sqn. Offr
Galbraith, Capt. I M, BA <i>Qu</i>	Sqn Offr

ADMINISTRATIVE AND OTHER STAFF

Dep. Admin Officer. Major P R V Carr-Harris, MC, CD Asst Admin Officer (A) Capt J. M Jordan, CD Paymaster. Capt. J. C. Crosby, CD QM Capt. D M Maxwell Asst Q.M Lt J. Weir Personal Asst to Commandant: Capt H F H. Pullen, BA *Tor* Public Reins Officer Capt C G Darling Med Officer. Surg. Cmdr. W S Patterson. Catering Officer. Lt G G Sauvé Dent Officer. Capt

N S. Gage, CD, DDS *Tor* Protestant Chaplain: Capt J. A Davidson, CD, BA BD. Catholic Chaplain Rev Fr Brown. Asst Librarians. J D P Martin, BA *Qu*, BLS *McG*; C R Watt, BA *Mont*, BLS *McG* Asst Cataloguer. B. Laupacis, Mjur *Riga* General Library Assts. V Zolobika, BLS *MA Ott*, H K McGlade, BA *Ott*

CONSTITUENT COLLEGES

ROYAL ROADS, Victoria, B.C. Establd in 1942 as a naval coll. and in 1947 reorganized as a com-

bined RCN-RCAF coll In 1948 it became a tri-service coll Commandant—Group Capt

A. F. Avant, DSO, DFC, CD, BScME, Dir of Studies—Prof. C. C. Cook, BA 70, MSc Mich, Registrar—A. C. Privett, MA Camb

COLLEGE MILITAIRE ROYAL DE ST-JEAN, ST-

Jean, P. Q. Establ. in 1952 as a tri-service coll. Commandant—Capt M. Jette, CD, Dir of Studies—Prof. C. A. Chabot, BA Laval, MA Qu, Registrar—D. Dion, BA LLB MSc Soc Laval

GENERAL INFORMATION

The Royal Military Coll of Canada originated in 1875 when the dominion govt decreed that there be establd. 'an instn for the purpose of imparting a complete educn in all branches of military tactics, fortification, engineering, and a general scientific knowledge in subjects connected with and necessary to a thorough knowledge of the military profession, and for qualifying officers for command and for staff appts'. The site selected was the old naval dockyard on Point Frederick. The coll was opened in 1876. The title 'Royal' was conferred in 1878. The coll was closed for cadets from 1942 to 1948 but was used for officer courses. It was reopened for cadets in 1948 as a tri-service coll.

The purpose of the coll, as well as of Royal Roads and Le Collège Militaire Royal de Saint-Jean, is to train cadets in the moral, mental and physical requirements for entry into the commissioned ranks of the sea, land and air forces. The moral trg includes the devel of the essential characteristics of discipline and leadership. Mental trg includes the fundamental military and scientific knowledge required in all branches of the service and in particular of the technical corps, and provides a balanced and liberal educn in arts and scis.

CONSTITUTION. The Royal Military Coll, Royal Roads and Le Collège Militaire Royal de Saint-Jean are administered by the dept of natnl. defence, and the minister of natnl. defence is, *ex officio*, pres of the coll. The arts, sci and engn facs operate as a joint fac under a dir of studies.

COLLEGE PRECINCT. The coll is situated on a peninsula at the confluence of the St Lawrence and Cataragui rivers at the eastern outlet of Lake Ontario. On a site of 94 acres there are 7 teaching bldgs, a library, 3 residences, 2 gyms, officers' and cadet messes, 11 fac residences, and athletic facilities including 5 playing fields, a rink, swimming-pool, tennis courts, rifle ranges, boat houses, etc.

LIBRARY 76,000 vols

LABORATORIES. Chem., phys; civil, electr., mech and chem engn

ADMISSION. See Appendix III

FIRST DEGREES BA—4 yrs for both gen degree and hons degree in Engl, French, hist, econ, pol. sci. and com. BSc—4 yrs for gen. degree (hons from 1962 in maths and phys), BEng—4 yrs for chem, civil, electr, mech.

engin, and engn phys (from 1962). Hons options have specific requirements, plus a thesis. Entry to all courses is from sr matric.

HONORARY DEGREES LLD, DScMil, DSc.

DIPLOMAS For hons sci. and engn until 1962. Cadets proceed after 4-yr course to Canadian univs for degree yr.

CANADIAN SERVICES COLLEGES INTEGRATION. For cadets entering R.M.C. the course is 4 yrs. For cadets entering Royal Roads the course is 2 yrs, cadets then proceed to R.M.C. for final 2 yrs. For cadets entering Le Collège Militaire Royal de St-Jean the course is 3 yrs, including prep yr, cadets then proceed to R.M.C. for final 2 yrs. Instrn for first 2 univ yrs is coordinated for entry into third yr at R.M.C.

MILITARY OBLIGATION. Each cadet must undertake to serve after graduation as a commissioned officer in one of the three armed services, in either active or reserve forces. Cadets with reserve force status are at present restricted to those who can qualify for dominion cadetships. All other applicants must enrol under the Regular Officer Trg Plan, introduced in 1952. All applicants accepted under the plan for entry in Canadian services colls are enrolled as naval cadets in Royal Canadian Navy, as officer cadets in Canadian Army, or as flight cadets in Royal Canadian Air Force. On successful completion of their academic and military trg such cadets will be promoted to commissioned rank in regular force. The privilege of release, if desired, will be granted after 3 yrs of commissioned service. The cost of tuition, bd, uniforms, books, instruments and other essential fees will be borne by dept of natnl defence, a cadet will receive \$63 a month and allowances, with free med and dent. care and annual leave with pay and allowances.

FEES Except for ROTP cadets, 1st yr.—\$550, covering tuition, residence, uniforms, books, etc., each subsequent yr.—\$300. Annual recreation, \$30, annual contingency fund, \$100, of which unexpended portion is refundable.

ACADEMIC YEAR. 2 terms fall (Sept to Dec); and winter (Jan to April), providing 25 wks of instrn, exclusive of exams. A short spring term of 4 wks has been added to provide time for survey, labs., thesis work in hons courses, physical educn, etc.

SUMMER TERM. All cadets are required to attend a trg centre of the service of their choice in order to obtain the necessary service qualifs.

RESIDENCE All cadets are in uniform and live in residence. Three blocks, providing 400 single and dble. rooms

SUMMER SERVICE SCHOOLS R M C. facilities are used in the summer months for jr. officers' courses, C O T C., and other qualifying courses.

PUBLICATIONS *Calendar* (annual), *Admission Requirements* (annual), *Cadet Handbook* (annual), *The R M C Review* (annual), *The Marker* (bi-weekly)

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS. *Bldgs completed* renovation to Ft Frederick; extension to electr engin bldg

RESIGNATIONS C G Bale (econ), student law sch., Qu; E. P. Benson (Engl), apptd asst prof, Laurentian U., G Bessette (French), apptd assoc prof in French, Qu, W J. Dohane (civil engin.), G W Holbrook (electr engin), apptd pres, NSTC., J L Lamontagne (French), apptd prof of French, Laval; O R Lundell (chem), apptd. asst prof., York U., R F Mann (chem), apptd to post in Atomic Energy of Canada, D J McKenney (chem.), C D Pearse (phys), K G Pryke (hist.), apptd. asst. prof of hist, Laurentian U., A Rakus (asst registrar), apptd asst prof of philos, Tor, J H Richards (geog), apptd prof of geog, Sask, N. K Sherman (phys), to postgrad. work at Qu

The following officers to service units on reposting—Wing Cmdr. R J Bayne (mil stud), Sqn-Ldr C W Blain (mech engin), Capt A S Derrick (civil engin); Lt.-Cmdr J G. Mills (staff adj), Capt J. R. Raby (mech engin.);

Capt. R S Scoates (admin); Maj L G Smith (mil studs), Lt W R Vallevand (admin)

HONORARY DEGREES LLD—Rt Hon V Massey, former gov-gen, Hon L Frost, premier of Ont., Hon B. Claxton, chairman, Canada Council, E W. Crowe, actuary, Sun Life of Canada *DScMil*—Rear Admiral W Hose, retd *DSc*—E W R Steacie, pres, Natnl Res Council

Statistics

CADET NUMBERS, 1960-61

(as at the beginning of the academic year)

Full-Time Part-Time

Men only 434 —

(Plus Royal Roads, 177, Collège Militaire Royal de Saint-Jean, 390)

New admissions (included above), 61

DEGREES AWARDED (1959-60) BA, 30, BSc,

22

DIPLOMAS AWARDED (1959-60) Engin, 95

SAINT DUNSTAN'S UNIVERSITY*

Founded 1855

Postal Address Charlottetown, Prince Edward Island, Canada

Cables and Telegrams St. Dunstan's University, P.E.I

Telephone Charlottetown 892-1248

CHANCELLOR—Most Rev. M. A. MACEachern, PhD *Louvain*, DD *Montr.*, Bishop of Charlottetown

PRESIDENT—Rt Rev J A SULLIVAN, MA *C.U.A.*

REGISTRAR—Rev. E. J. ROCHE, MSc *Notre Dame*

LIBRARIAN—Rev A F MACDONALD, BA BLS *Tor.*, MA *C.U.A.*

TEACHING STAFF

Biology		Home Economics	
Ellsworth, Rev R G, DD <i>Laval</i> , MSc <i>C.U.A.</i>	Prof.	Sister Louis Marie, BSc(HE) <i>St F X</i>	Prof
Cheverie, Rev C, MSc <i>C.U.A.</i>	Prof.	Latin and Greek	
Chemistry		Kelly, Rev J R, MA <i>C.U.A.</i>	Prof
Cass, Rev. F. L., BSc <i>McG.</i>	Prof	Mathematics	
Duffy, Rev. R, MSc <i>Fordham</i>	Prof.	Roche, Rev E J., MSc <i>Notre Dams</i>	Prof.
Commerce		Arsenault, G, BSc BA	Assoc Prof.
Murnaghan, Rev V G, MCom <i>Tor.</i>	Prof	Philosophy	
Hilton, E, BCom <i>St.F X</i>	Assoc Prof	MacLellan, Rev. T. M., STD <i>Montr.</i> , PhD <i>Laval</i>	Prof
Economics		Landrigan, Rev L W., BA	Assoc Prof.
Murphy, J C, BA PhD <i>C.U.A.</i>	Prof.	Green, J. E, BA MSW <i>C.U.A.</i>	Assoc Prof.
Education		Physics	
Sister Mary Ida, MA <i>Ott</i>	Prof	MacDonald, Rev G. A., MSc <i>Dal</i>	Prof.
Sharkey, Rev. O C., MA <i>Dal.</i>	Prof.	Religion	
Engineering		Sullivan, Rt Rev J A, MA <i>C.U.A.</i>	Prof.
MacDonald, Rev A C., MSc <i>MIT.</i>	Prof	Secretarial Science	
MacPhac, R A, BE <i>New Br.</i>	Assoc Prof	Sister Thomas Marie, BA	Prof.
English		Sociology	
O'Grady, B. A., AM <i>Col.</i> , PhD <i>Ott</i>	Prof.	MacDonald, Rev A F, BA BLS <i>Tor.</i> , MA <i>C.U.A.</i>	Prof.
MacIntyre, Rev W. P., MA <i>Ott</i>	Assoc Prof	Spanish	
French		Sallenave, P, BA <i>Paris</i>	Prof
Pineau, Rev J. W., MA <i>Laval</i>	Prof.		
Arsenault, Rev A, BA	Assoc. Prof		
History			
McGuigan, Rev W. J, MA <i>C.U.A.</i>	Prof.		
Bolger, Rev F. W P., BA PhD <i>Tor.</i>	Prof.		

ADMINISTRATIVE AND OTHER STAFF

Bursar	Rev F. P Aylward, BA	Coll	Dean of Women	Sister Thomas Marie, BA
Physician	J L. F Burge, MD <i>GM McG</i>	Dean	Dir of Athletics	A J. MacAdam, BA BSc
of Men	Rev V G Murnaghan, MCom <i>Tor</i>		Dir of Discipline	Rev A F MacDonald, BA

* Member of the Association of Universities of the British Commonwealth

BLS *Tor*, MA *C U A*; Rev F. W. P. Bolger, BA PhD *Tor*, Rev F. A. Cameron, BA, Sister Louis Marie, BSc(HE) *St F X* Ctee on Studies Rev E. J. Roche, MSc *Notre Dame*, Rev A. C. MacDonald, MSc *M I T*, B. A. O'Grady, AM

Col, PhD *Utt*, Rev V. G. Murnaghan, MCom *Tor*, Sister Thomas Marie, BA, Rev F. L. Cass, BSc *McG* Dir of Extension Work Rev W. P. MacIntyre, MA *Utt*

GENERAL INFORMATION

St Dunstan's Univ. opened in 1855, was by act of the Prince Edward Island legislature granted a charter in 1917 as a univ. 'with all and every the usual rights, powers, and privileges of such an institution'. From 1892 to 1940, by virtue of affiliation with Laval Univ., the degrees of that institution were conferred on all those who completed the St Dunstan's courses and successfully passed the exams given by Laval Univ., but since 1940 the powers of its charter have been exercised in full and independent action. English is the official language used in lectures. St Dunstan's is the diocesan univ. of the Roman Catholic diocese of Charlottetown and is co-educational.

CONSTITUTION • The pres. has charge of the general admin. of the univ. In the discharge of his duties he is subject to the bd of governors under the chairmanship of the bishop of the diocese of Charlottetown, and is assisted by the officers of the staff in matters pertaining to studies, discipline and finances.

FACULTY AND DEAN *Arts, sciences & comm*, Rev E. J. Roche (maths.)

UNIVERSITY PRECINCT. The univ. is situated on the trans-Canada highway, about 1 mile from the city of Charlottetown. Its site comprises 400 acres of land, part of which has been set aside for the campus and the rest for the univ. farm.

ADMISSION See Appendix III

DEGREES 4 yrs from jr. matric—BA, BSc, BCom. 5 yrs. from jr. matric or 1 yr. from BA, BSc or BCom. No honours degrees or higher degrees awarded.

CERTIFICATES Engin., 3 yrs from jr. matric, admits to 4th yr. of 5-yr. course at Nova Scotia

Tech Coll. Secretarial studies, 2 yrs from jr. matric.

FEES Tuition, board, \$550 p.a.

ACADEMIC YEAR. Sept–May. 2 terms of 15 weeks each.

VACATION COURSES Summer sch. of 6 wks held in July–Aug. Classes offered in arts & sci. and educn for teachers and regular session students.

RESIDENCES 3 residences for male students (Main Building, Dalton Hall and Memorial Hall), each accomm. about 80 students, and 1 for female students (Marian Coll.), accomm. 60. Fees per room—\$60 p.a. For directors of discipline see 'Admin. and Other Staff', above.

MILITARY FORMATIONS The Canadian officers' trg. corps has a contingent on the campus and offers to selected students an opportunity to qualify for commissions in the Canadian army. The univ. naval trg. div. also has a branch on the campus through which students may qualify for commissions in the royal Canadian navy (reserve).

ATHLETICS Principal athletic activities are football, hockey and basket-ball, and ample facilities are provided for these in football fields, an indoor skating rink and a large gymnasium.

STUDENTS' UNION The union co-ordinates all organized student activities, such as athletics, dramatics, debating, the publishing of the students' magazine, etc.

PUBLICATIONS *Calendar* (June), *Red and White* (students' publication), monthly, *Alumni Bulletin*, 4 times yearly.

THE YEAR 1960

HONORARY DEGREES LLD—Most Rev M. Roy, archbishop of Quebec and primate of Canada.

Statistics

STUDENT NUMBERS, 1960–61
(as at the beginning of the academic year)

	Full-Time	Part-Time*
Men	287	11
Women	78	44
Total	365	55

Distribution by Faculties: *Arts*, 193; *comm*, 45; *educn*, 14; *engin*, 37; *sci*, 131. Total 420.

Included in the figures above are—

Postgraduate students, nil
New admissions, 198
Students from other countries, 61 (Country from which largest number came U.S.A., 46)

DEGREES AWARDED (1959–60) BA, 21; BSc, 24; BCom, 2.

DIPLOMAS AWARDED (1959–60) Engin., 8.

* Includes evening classes

ST. FRANCIS XAVIER UNIVERSITY*

Founded 1853

Postal Address . Antigonish, Nova Scotia, Canada

Cables and Telegrams University, Antigonish, Nova Scotia

Telephone Antigonish 1139

CHANCELLOR AND *ex-officio* CHAIRMAN OF THE BOARD OF GOVERNORS—Most Rev. W. E. POWER, DD
Bishop of Antigonish

PRESIDENT EMERITUS—Rt Rev P J NICHOLSON, PhD *Johns H*, Hon LLD Hon. DSc

PRESIDENT—Rt Rev H J SOMERS, PhD *C U A*, FRHistS

VICE-PRESIDENTS—Very Rev C H BAUER, Very Rev F J SMYTH

PRINCIPAL, XAVIER JUNIOR COLLEGE—Rt Rev M A MACLELLAN, PhD *C U A*

DEANS—Dean of Studies—Very Rev C H BAUER, Associate Dean of Arts—Rev F J GINIVAN,
PhD *Notre Dame*; Dean of Science—J J MACDONALD, PhD *Tor*, Dean of Men—Rev D
KENNEDY, BA, Dean of Freshmen—Rev M J GILLIS, BA

REGISTRAR—Rev W X EDWARDS, BA

BURSAR—Rev J V CAMPBELL, BA

DIRECTOR OF RELIGIOUS ACTIVITIES—Rev G. A. MACKINNON, BA

LIBRARIAN—Sister REGINA CLARE, BLS *Tor*.

DIRECTOR OF UNIVERSITY EXTENSION—Rev J A GILLIS, BA

TEACHING STAFF.

Biology		Mullen, Rev. P S, MA <i>C U A</i> .
Chasson, L. P., MA PhD <i>Tor</i>	Prof	(Econ.) Assoc Prof.
Rousell, Rev G, MS PhD <i>Fordham</i>	Asst Prof	Woodfine, W J, MA <i>McG</i> , PhD <i>M I T</i>
Thompson, R., MSc <i>W Ont.</i>	Asst Prof	(Econ.) Assoc Prof.
		Kane, J, MA <i>St. Louis</i>
		(Sociol) Lectr.
Celtic Studies		Education
MacLeod, Major C. I. N., MA <i>Edn</i>	Assoc Prof	Campbell, Rev. D F, MA PhD <i>C U A</i> .
		Assoc Prof.
Chemistry		Sister St Michael, MA <i>Tor</i> , PhD <i>Fordham</i>
Foley, W T, PhD <i>Laval</i>	Prof.	Assoc. Prof
MacDonald, J. J., PhD <i>Tor</i> .	Assoc Prof	MacLean, Rev M., MSc <i>Edn</i> <i>Fordham</i>
Secco, E. A., PhD <i>Laval</i>	Assoc Prof	Asst Prof.
Berry, Rev. P., BA PhD <i>Notre Dame</i>	Asst Prof	Engineering
Gillis, H., PhD <i>Notre Dame</i>	Asst Prof.	Fogarty, Rev W P, BSc <i>McG</i>
Bunbury, D., PhD <i>Notre Dame</i>	Asst Prof	MacDougall, J. H., BE <i>N.S.T C</i>
		Roy, A. H., MSc <i>Birm.</i>
		Asst. Prof
Classics		English
Power, Rev G., PhD <i>Harv.</i>	Prof.	Bannon, Rev R V., MA
Roach, Rev. T., BA	Lectr.	Edwards, Rev W. X., BA
		MacSween, Rev. R., BA
Economics, Sociology, Political Science, Commerce		Brunelle, Y. G., MA <i>Harv</i>
Sister St Mary Donald, AM <i>Col</i> (Comm.) Prof.		MacLellan, Rev V., BA
Kilbride, B. J., MBA <i>Col.</i> (Comm.) Assoc Prof		O'Connell, B., BA
Sears, J. T., MBA <i>Detroit</i> (Comm.) Assoc Prof		Reed, J. K., MA <i>C U A</i>
Kontak, W., BA <i>Oxon.</i> (Pol. Sci.) Assoc Prof.		Sister St Arthur, MSc <i>Col.</i>
		Lectr

* Member of the Association of Universities of the British Commonwealth

French

MacLean, C D, *DUParis*
 Doiron, L., MA *Montr*
 Babin, J -W, MA *Laval*
 Sister St William, BA *BE*

Ptof
 Assoc Prof
 Asst Prof
 Lectr

Monahan, E J, LMS *Pontif Inst., Tor*,
 PhD *Tor*.

Assoc Prof
 Asst Prof

Gatto, Rev E, MA *Tor*

Physics

Clarke, Rev E. M, DSc *Laval* * Prof.
 Olmos-Weingarthofer, A., DSc *Laval*

Asst. Prof

Hubisz, J, BSc

Instr.

Penny, C_g, BE *N S T C*.

Instr

Geology

MacNeil, D J, PhD *Pym*

Prof.

Keating, B J, PhD *McG*

Prof

Cormier, R., PhD *M I T*

Asst. Prof

Whitehead, W L, PhD *M I T*, DSc
 Visiting Prof

Political Science, see Econ

German

Bauer, Rev C. H, BA

Prof.

Psychology

MacNeil, Rev. F X., BA

Lectr

History

MacDonell, Rev. M., MA *Tor*.

Prof

Sister St Veronica, MA *C U A*.

Prof

Somers, Rt Rev. H J, PhD *C U A*,

Prof

FRHistS

O'Keefe, Rev. L., MA *Notre Dame*

Asst Prof

Religion

MacKinnon, Rev G A, BA

Assoc. Prof

Campbell, Rev J V, BA

Lectr

Gaul, Rev F, BA

Lectr

Gillis, Rev M J, BA

Lectr.

Graham, Rev J, BA

Lectr.

Kennedy, Rev D, BA

Lectr.

MacFaulane, Rev J D., BA

Lectr

MacLean, Rev L, BA

Lectr.

Mathematics

McKenna, Rev. L G, MA

Prof.

Girvan, Rev F. J., PhD *Notre Dame*

Assoc Prof.

Sociology, see Econ.

Nicholson, D, BSc

Instr.

Music

Egan, J., PhD *Indiana*

Assoc. Prof.

Sister St Michael of the Eucharist,

Assoc. Prof.

MMus *New Eng. Cons.*

Spanish

McIver, Rev. J J

Lectr

Philosophy

MacDonald, Rev C R, PhL *Laval*

Prof.

Gillis, Rev J H, PhD *C U A*.

Assoc. Prof.

EXTENSION DEPARTMENT

Chasson, R. J., MA *Col*, PhD *Lond*

Assoc Prof.

2 Lectrs; 12 Field Workers, Field
 Specialist, Housing Specialist, 2
 Field Supervisors

ADMINISTRATIVE AND OTHER STAFF

Asst to President for Alumni Relations: Rev
 D MacCormack, DD *Laval* Business Manager.
 C. R. Chadwick Public Relations Officer: B.
 O'Connell, BA. Assoc. Prof. of Phys Educn.

A MacAdam, MPE *Springfield*. Resident Staff
 Officer. Capt M D Kearney Dir of Place-
 ment: D. J. Loney.

ASSOCIATED INSTITUTION

MARITIME SCHOOL OF SOCIAL WORK, Halifax,
 N S (tel: Halifax 3-6907) Founded 1941
 Provides 2 yrs' professional trg leading to degree
 of Master of Social Work (MSW) of St Francis

Xavier for approved graduates of St Francis
 Xavier and other recog univs Dir—L T.
 Hancock, MA *Chic & K C N S*, BSW *McG*

AFFILIATED INSTITUTIONS

MT ST BERNARD COLLEGE, Antigonish, N.S.
 (tel. Antigonish 74) Women's residence
 Superior—Sister St. Winifred

complete 3 yrs of nursing trg required for BSc
 Nursing Supt of Nurses—Sister Mary Calvary

ST MARTHA'S HOSPITAL SCHOOL OF NURSING,
 Antigonish, N.S. (tel.: Antigonish 54). Students

XAVIER JUNIOR COLLEGE, George St., Sydney,
 N S (tel. Sydney 6418) First 2 yrs in any fac.
 of the coll are recognized by univ Principal—
 Rt. Rev M A MacLellan, PhD *C U A*.

GENERAL INFORMATION

The univ was founded in 1853 in Arichat by the Rt Rev C F MacKinnon, bishop of the diocese of Arichat, and subsequently moved to its present location at Antigonish. Full univ powers were conferred by the province of Nova Scotia in 1866. The univ is under the direction of the Catholic church, but there are no religious tests for entrance or for degrees. Permanent bldgs were begun in 1880.

In 1894 Mt St. Bernard Coll, founded in 1883, was affiliated with the univ. The univ extension dept was organized in 1929. In 1951 Xavier Junior Coll was establd. in Sydney, N.S., as an integral part of the univ.

CONSTITUTION The bd. of governors is composed of: bishop of Antigonish, *ex-officio* chairman, pres of univ., *ex-officio* vice-chairman, bursar of univ., sec.-treasurer, dir of extension dept; principal of Xavier Jr. Coll., 7 members elected each yr for a 3-yr term by the bd itself, 3 members elected by fac of univ; 3 members elected by priests of diocese of Antigonish, 3 members elected by alumni assocn. By the constitution the members of the bd. must represent every main group in society: miners, steel workers, teachers, profess people, businessmen, etc. The bd. has authority over all matters of property and finance. The fac. of the univ. has final authority over all academic matters.

The pres of the univ is apptd. by the bishop of Antigonish for a 6-yr term after a consultative vote by the members of the bd. of governors and the members of the univ. fac.

INCOME (1959-60) Total \$1,432,628 (student academic fees, 45.3 per cent; endowments (net), 2.5 per cent; govt grants, 44 per cent; gifts & misc., 8.2 per cent).

LIBRARY. 73,000 vols.

LABORATORIES Biol., chem., engn, geol., phys.

ADMISSION See Appendix III

ADMISSION TO PARTIAL OR SPECIAL COURSES. In particular cases students who are not candidates for degrees may be permitted by the cttee on admissions to enrol in any course from which, in the judgment of the cttee, they will profit.

FIRST DEGREES. 4 yrs from jr. matric—BA, BSc, BCom, BSc(HEd), BSc hona. (in biol., chem., geol., phys.), BScN. Two yrs* (for teachers, 1 yr's) residence required for degree. No BA hona. degree.

HIGHER DEGREES BEd, MA in chem, geol. or soc sci, MA in teaching, MEd, 1 yr postgrad & MSW, 2 yrs at Maritime Sch of Soc Work (see p 306) beyond bachelor's degree.

The univ does not award EXTERNAL DEGREES.

DIPLOMAS. Sr dipl in educn for students who successfully complete 3 academic yrs in arts, sci., or comm. from jr. matric plus 1 academic yr of

a professional course in teacher trng; qualifies for teacher's professional cert class III (general) of NS Jr dipl in educn for students who successfully complete 2 academic yrs in arts, sci. or comm from jr matric plus 1 academic yr of a professional course in teacher trng, qualifies for teacher's license class I (general) of NS Soc leadership, 1 calendar yr from jr matric 8 mos' academic study, and remainder in field work under supervision of extension dept.

CERTIFICATE Engn, 3 yrs; admits to 4th year of 5-yr course at Nova Scotia Tech Coll and other engn schs.

GENERAL FEES First semester bd., \$192; tuition, \$165; room rent, \$80; laundry, \$16; library, \$15; general fee, \$30; equipment replacement, \$10; med & surg attendance, \$9; hospitalization fee, \$8. Second semester bd., \$192; tuition, \$165; room rent, \$80; laundry, \$16.

Mt ST. BERNARD COLLEGE Offers specialized trng, not leading to a degree or dipl., in arts & crafts, music, dramatics and secretarial sci. (2 yrs).

SUMMER COURSES St. Francis Xavier summer sch, vacation sch in soc action. Various short courses sponsored by the extension dept. of the univ.

EXTENSION DEPARTMENT, which sponsors a programme of adult educn known as the Antigonish movement, is separately staffed and educates by means of study clubs, films, radio programmes and by correspondence. It has vastly improved the economic state of fishermen, farmers and indust workers in the Canadian maritime provinces by the estab of co-operatives and credit unions, and its work has been recog by outstanding foundations which have given substantial assistance. It sponsors various courses on the campus and awards to students a dipl in soc. leadership, on completion of a 2-yr course on the principles and methods of the extension movement.

General programme of adult educn chiefly for primary producers and indust workers in the maritime provinces; promotion of credit union and co-operative activities among these groups. Educnl. work among fishermen of the maritimes under grant from dept of fisheries. Short courses throughout maritime provinces. Leadership course and vacation sch for seminarians conducted at Antigonish. About 800 adults in 9 communities in indust. classes connected with the people's sch. programme. Specialists working on co-operative housing, land settlement and labour educn. Extension library and film service.

SCHOLARSHIPS, ETC Knights of Columbus scholps, 10 to 12 annually, \$200 each; 10 Rev R. McInnis scholps of \$200 and under each; 4 French scholps. annually, \$200 each, various other scholps., bursaries and prizes.

The dept. of educn of N S. offers 10 scholrps of \$500 each tenable by grads who intend to take the BEd course of the univ. The govt of N S is prepared to make loans up to \$500 and to pay tuition fees for the yr of professional trg to teachers-in-trg who agree to teach in the public schs of N S for 2 yrs

RESIDENCE Cameron Hall (200 students), McKinnon Hall (175), Xavier Hall (150), Mockler Hall (150), Sancier Hall (50), Acadia Lodge (30). Fees, incl room and bd \$898

PHYSICAL TRAINING. Gymnasium, skating rink, stadium

MILITARY TRAINING Establd to select and

train suitable young univ students for commissioned rank in the regular and reserve components of royal Canadian navy, Canadian army, and R C A F respectively univ naval trg division (U N T D), Canadian officers' trg corps (C O T C.) and univ. reserve trg plan (U R T P).

The STUDENTS' UNION is the recog means of communication between the fac and the student body. It is designed to co-ordinate and control all extracurricular student activities. Every student is a member

PUBLICATIONS. *Calendar* (July), *Xaverian*, weekly, and *Xaverian Annual* (students' publica.), *Alumni News*, 3 times yrly.

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	1156	125
Women	317	348
Total	1473	473

Distribution by Faculties, etc *Arts*, 566; *comm*, 194; *educn*, 72; *engin*, 250; *home econ*, 51; *hons. sci*, 51; *master's programme*, 4; *nursing*, 13; *sci*, 195; *secretarial studies*, 55; *sp course*, 22. Total 1473

Included in the figures above are —

Postgraduate students, 46

Students from other countries, 194 (Country from which largest number came U S A, 165)

DEGREES AWARDED (1959-60) MA, 3, BA, 88, BSc, 27, BSc hons, 5; BScN, 3, BSc (HEc), 12, BCom, 23, BEd, 40, MSW, 1

DIPLOMAS AND CERTIFICATES AWARDED (1959-1960) Educn, 18, engin, 42, soc leadership, 10

SAINT JOSEPH'S UNIVERSITY

Founded 1864; institution for Commerce, Sciences, Civil Engineering and Education, founded 1953

PRESIDENT, BOARD OF GOVERNORS—Rev C CORMIER, SThL *Montr*, Hon LLD *New Br*, BScSoc *Laval*

VICE-PRESIDENT, BOARD OF GOVERNORS—Rev R LAVOIE, BA

SECRETARY, BOARD OF GOVERNORS—Rev D GAUDET

ARTS

Postal Address St. Joseph, New Brunswick, Canada

Telephone Memramcook Exchange TU 8-2511

SUPERIOR—Rev R LAVOIE, BA

ASSISTANT SUPERIOR—Rev T BLANCHARD, BA LTh

SECRETARY-GENERAL—Rev D GAUDET

DEAN OF STUDIES AND REGISTRAR—Rev R E SOUCIE, MA

DEANS—ENGLISH—Rev J. MACDONALD, BA; FRENCH—; LATIN—Rev. L. GAUDET, LèsL *Montr*.

TREASURER—Rev Br A MORIN, BL BED

LIBRARIAN—Rev. Br O CORMIER

TEACHING STAFF

Accounting		Kingston, Rev. L., BA	Prof
Cadieux, J., LScCom <i>Montr</i> .	Prof.	Waugh, Rev O., BA <i>St.M.</i> , MA <i>Notre Dame</i>	Prof
Astronomy		Soucy, A., LPh	Prof.
Blanchard, Rev T., BA LTh	Prof.	French	
Classics: Latin		Gaudet, Rev L., LèsL <i>Montr</i>	Prof.
Gaudet, Rev. L., LèsL <i>Montr</i>	Prof.	Blanchard, Rev T., BA LTh	Prof.
Blanchard, Rev T., BA LTh	Prof.	Guidance	
MacDonald, Rev. J., BA	Prof.	Desjardins, Rev R L., BA MED	Prof.
Furcell, Rev W., PhD <i>Rome</i>	Prof.	Mathematics	
Soucie, Rev. R. E., MA	Prof.	Soucie, Rev R. E., MA	Prof.
Kingston, Rev. L., BA	Prof.	Dionne, Rev R., BA	Prof.
Waugh, Rev. O., BA <i>St M.</i> , MA <i>Notre Dame</i>	Prof.	LeBlanc, R., MSc <i>Notre Dame</i>	Prof.
English		Physics	
MacDonald, Rev. J., BA	Prof	Dionne, Rev R., BA	Prof.

COMMERCE, SCIENCES, EDUCATION, CIVIL ENGINEERING

Postal Address : 80 Church St., Moncton, New Brunswick, Canada

Telephone Moncton EV 4-5549

SUPERIOR—Rev L-M DAIGLE, LPh *Laval*

ASSISTANT SUPERIOR—Rev C CORMIER, SThL *Montr.*, Hon LLD *New Br*, BScSoc *Laval*

SECRETARY—Rev O FERGUSON, LScCom *Montr*

DEAN OF STUDIES—Rev R ROSSIGNOL, BA

DEANS—CHEMISTRY—B T. NEWBOLD, PhD *Laval*, COMMERCE—Rev O FERGUSON, LScCom *Montr.*,

EDUCATION—Rev Br L TAILLON, MA BEd *Montr*; ENGINEERING—D MCCREA, BSc *New Br.*,

PHYSICS—R J. LeBLANC, MSc *Notre Dame*, SCIENCES—Rev J B CORMIER, BA LSc *Montr*

LIBRARIAN—R LeBLANC, BA

TEACHING STAFF

Accounting		Geology	
Bourque, L, LSc <i>Laval</i>	Prof	Marcotte, N., BSc <i>Laval</i>	Prof
Cadieux, J, LScCom <i>Montr</i>	Prof.		
Ferguson, Rev. O, LScCom <i>Montr</i>	Prof.	Guidance	
		Tippett, R.	Prof.
Astronomy		Human Anatomy	
Cormier, Rev. J B., BA LSc <i>Montr</i>	Prof	Grondin, G, MD	Lectr.
Biology		Income Tax	
Rossignol, Rev R, BA	Prof.	Melanson, R., MScCom	Lectr.
Chemistry		Mathematics	
Rossignol, Rev. R, BA	Prof	Rossignol, Rev R, BA	Prof.
Poitras, Rev. A, LSc <i>Laval</i>	Prof	Poitras, Rev. A, LSc <i>Laval</i>	Prof
Cormier, Rev. J B, BA LSc	Prof	LeBlanc, R J, MSc <i>Notre Dame</i>	Prof
Newbold, B T, PhD <i>Laval</i>	Prof	Cormier, Rev J. B, BA LSc <i>Montr</i>	Prof.
Civil Engineering and Surveying		Mechanics	
McCrea, D, BSc <i>New Br.</i>	Prof	Marcotte, N, BSc <i>Laval</i>	Prof
Marcotte, N, BSc <i>Laval</i>	Prof	Cowan, G., BSc <i>Dal</i>	Lectr
Commercial Law		Mental Hygiene	
Léger, C E, QC, BA BCL	Lectr	Cormier, G	Prof
Diction		Mine Research	
Nelson, Mrs L B, BEd	Lectr	Pogani, G	Prof
Drafting		Modern Languages	
Blanchette, C., BA BArch <i>Montr</i>	Lectr	LeBlanc, Miss L, MA <i>Col</i>	Lectr
Economics		Philosophy	
Young, A, LScSoc <i>Laval</i>	Prof.	Dugle, Rev L.-M., LPh <i>Laval</i>	Prof
Electricity		Richard, Rev A, BA	Prof
LeBlanc, R J., MSc <i>Notre Dame</i>	Prof.	Soucy, A, LPh	Prof
English		Physics	
Cryderman, K., MA <i>Tor.</i>	Prof	LeBlanc, R J, MSc <i>Notre Dame</i>	Prof
Soucy, A, LPh	Prof.	Psychology	
Financial Mathematics		Desjardins, Rev R L., BA MEd	Prof
Lang, C, BScCom	Lectr	Religion	
Bourque, P., MSc <i>Laval</i> , CA	Lectr.	Ferguson, Rev O., LScCom <i>Montr</i>	Prof.
French		Poitras, Rev A, LSc <i>Laval</i>	Prof.
Chamard, Rev. M, LèsL <i>Paris</i>	Prof	Rossignol, Rev R, BA	Prof
Labonté, R., MA <i>Montr</i>	Prof	Chamard, Rev. M., LèsL <i>Paris</i>	Prof
		Statistics	
		Ferguson, Rev. O, LScCom <i>Montr.</i>	Prof

AFFILIATED INSTITUTIONS

ASSUMPTION COLLEGE, 96 Ave. Norwood, Moncton, N.B. (tel. EV 4-4073) Founded 1946. Jr coll. in arts Superior—Rev C Johnson, B.A.

COLLEGE NOTRE-DAME D'ACADIE, 343 Archibald St., Moncton, N.B. (tel. EV 4-4121) Founded 1948 Courses in arts for BA, in music for BM and in home econ. for DScEcon Dipl. in secretarial sci (1 yr from jr matric) Superior—Rev Mother Juliette, M.A.

MORÉAU SEMINARY, Saint Joseph, N.B. (tel. Memramcook Exch TU 8-2584) Founded 1948 Courses in arts for BA Superior—Rev. P J MacDonald, B.A.

SACRED HEART COLLEGE, Sagard-Barisal, East

Pakistan Founded 1953 Courses in arts for BA Superior—Rev A McClure, B.A. *Montr.*

SAINT THOMAS SEMINARY, Saint Joseph, N.B. (tel.: Memramcook Exch 8-2511) Founded 1948 Courses in arts for BA Superior—Rev. A. Doucet, B.A.

SCHOOL OF HOME ECONOMICS, Saint Joseph, N.B. (tel. Memramcook Exch 8-2556) Founded 1948 Courses for cert in home econ. Superior—Rev Sister Marie-de-Lourdes

SEMINARY OF OUR LADY OF PERPETUAL HELP, 476 Elmwood Drive, Moncton, N.B. (tel.: EV 4-9327) Founded 1956 Junior coll. courses leading to BA. Superior—Rev G. LeBel.

GENERAL INFORMATION

Founded in 1864, the instn. was incorporated under the name of 'The Coll. of Saint Joseph', with the power to confer degrees, by an act of the New Brunswick legislature in 1868. In 1898, the original charter was amended, the name being changed to 'The Univ. of Saint Joseph's Coll.'. In 1906, Oxford Univ. admitted St. Joseph's Coll. to the privileges of the statute of colonial univs. In 1928 the legal title was changed to 'Saint Joseph's Univ.'. The univ. is conducted by the fathers of Holy Cross.

CONSTITUTION Since the opening of the new bldg. in Moncton in 1953 for scis, comm, civil engin and educn, St. Joseph's Univ. has been governed by a single corporation. There is a general cttee on studies, comprising the pres and the dean of studies of each instn as members *ex officio*. These officers outline the general curriculum of studies for the univ. For the rest, each instn. has its own budget and is administered as if it were a separate coll., each has a bd. of governors, comprising the pres, the vice-pres, the dean of studies, the sec. and two local councillors. On admin. problems the powers of members of the council are limited to consultation, they have full power on financial problems. The local cttee on studies is composed of the pres. of the instn, the dean of studies and the deans of the depts. The deans of the depts. are responsible to the dean of studies, who is responsible to the pres. of the instn.

INCOME Govt. grants provincial govt., \$20,000; federal govt., \$30,000.

UNIVERSITY PRECINCT Fac. of arts is situated at St. Joseph's. Chief admin. offices are in Moncton, in the centre of which the univ. also owns an area of 80 acres, which a residence for men was opened in 1959. There is a temporary classroom bldg. pending further devel. on the campus.

LIBRARY 50,000 vols. at St. Joseph's, 10,000 vols. at Moncton.

MUSEUM Natural hist and Acadian hist. The library, museum and archives, the first instn. of its kind organized for the benefit of the Acadian population, has specialized in, and contains valuable collections on, the hist. of Acadia.

LABORATORIES Biol., chem., phys.

DEPARTMENTS High sch. level academic, comm, agricultural and home econ. 2 high schs. affiliated to the univ. offer courses leading to jr. matric, on completion of which students may be admitted to the coll. course. Coll. level, arts, comm., educn, engin, home econ., music, sci.

ADMISSION. See Appendix III.

FIRST DEGREES 4 yrs from jr. matric—BA, BSc, BScCom, BScFam, BM (music), BSc in Home Econ.

HIGHER DEGREES Postgrad course of 1 yr, or equivalent—BEd, MA 1 yr from BEd—MEd.

CERTIFICATE in engin (3 yrs from jr. matric), admits to 4th yr of 5-yr. course at Univ. of New Brunswick.

FEES For tuition only arts, \$175, comm, \$200, sci and engin, \$250. For bd., residence and tuition \$800 plus. Degrees, \$5 to \$20.

ACADEMIC YEAR Sept to mid-May.

SUMMER COURSES lead to BA, BEd, MEd.

LANGUAGES OF INSTRUCTION French and English.

RESIDENCE Accommod. for 500 male students.

PUBLICATIONS Calendar (June) Students *Liaisons* (monthly).

THE YEAR 1960

HONORARY DEGREES, *DCL*—May -Gen G P Vanier, gov.-gen of Canada, L J Robichaud, premier, prov of N B

Distribution by Faculties *Arts*, 212; *comm*, 120, *educn*, 4, *engin*, 81, *scis*, 24

Included in the figures above are —

New admissions, 160

Students from other countries, 25. (Country from which largest number came U S A, 24)

Statistics

STUDENT NUMBERS, 1960-61*
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men .	435	—
Women .	6	—
Total .	441	—

DEGREES AWARDED (1959-60) *Arts* BA, 37
Comm BScCom, 6 *Educn* BEd, 11 *Scis*
BSc, 4 Total, 58

CERTIFICATES AWARDED (1959-60) *Engin.*, 5

* Not included in these figures are part-time students who attend evg. classes only

SAINT MARY'S UNIVERSITY*

Founded 1841; previously established as St Mary's College, 1802

Postal Address Halifax, Nova Scotia, Canada

Cables and Telegrams St Mary's University, Halifax, Nova Scotia

Telephone Halifax 422-6421

CHANCELLOR—Most Rev J G BERRY, DD MSc C U.A., Archbishop of Halifax

PRESIDENT—Very Rev C J FISCHER, SThL Greg

VICE-RECTOR—Rev E. M. Brown, PhD Greg

DEAN OF STUDIES—Rev W A STEWART, SThL Greg. (Philos); DEAN OF EDUCATION—Rev D. FOGARTY, SThL Greg, MA PhD Col., DEAN OF MEN—Rev C N RUSHMAN, BA Tor

ACTING REGISTRAR—Mrs SARA JUDD

BURSAR—D. J. MARKLEY

LIBRARIAN—Rev. A. COTTER, SThL Greg.

TEACHING STAFF

[† = Part-Time]

Accounting

Beazley, H G, BComm Assoc Prof
Schandl, C W, LLD Bud, CA Asst Prof
Hill, F J, BComm †Instr.

Economics

Vorstermans, J. J., Drs Tilburg Asst Prof
Schandl, C W, LLD Bud, CA Asst Prof
George, R E, BSc Lond, MA Brst Asst Prof

Anthropology

Stapleton, Mrs. Sylvia, MA Syd |Instr.

Education

Fogarty, Rev D, SThL Greg, MA
PhD Col
Yabille, Rev H J, MA St Louis Assoc Prof
Monahan, A P, MA PhD Tor, LMS Assoc Prof
Pontif Inst, Tor
Conrad, A, BEd MA |Instr
Eale, J, BEd Dal, MA †Instr
Harrington, M, BA BEd †Instr
Keating, M, MA LLB Dal, Hon LLD †Instr

Archæology

Loewenstein, J, PhD Vienna, FRAI Prof

Art

Czako, Rev. A, PhD Bud Prof Emeritus
Zarand, J †Instr

Engineering

Ryan, J L, BE N S T C, BSc Assoc Prof
Sheehan, B S, BE N S T C (on leave) Lectr.
Warner, D., DE N S T C., MSc Purdue Lectr.
Bowes, H G, BE N S T C †Instr.
Beck, R, BE N S T C, BSc †Instr.
Heckman, P J, BE N S T C, BSc Dal. †Instr.
Warner, J, BE N S T C, SM M I T †Instr.

Biology

Rajo, A, DSc Madrid Asst Prof

Business Administration

Hanrahan, R, MBA Harv, BComm Lectr.

English

Flynn, E, MA Dal Asst Prof
Hallett, G, MA Dal Lectr.
Yeoman, A R, MA Dal, BD K C N S †Instr

Chemistry

Murphy, Rev J W, MA PhD Tor Assoc Prof
Sabean, A T, BA MSc McG Assoc Prof
Bridgeo, W, PhD Ott †Instr

French

Loewenstein, J., PhD Vienna, FRAI Prof.
Devine, Rev. F J, MA McG Assoc. Prof.

* Member of the Association of Universities of the British Commonwealth

Colliard, Rev. A, BA <i>Monti</i> , SThL <i>Greg</i>	Buyco, E H, BSc <i>Santo Tomas</i> , PhD <i>Purdue</i>	Asst Prof	Asst Prof
Rountree, S V., MA <i>Dal</i> , BLS <i>McG.</i>		†Instr.	
Geology			
Simpson, D H, MSc PhD <i>McG</i>		Assoc Prof	
German			
Richter, Mia J, MA <i>Tor</i>		†Instr	
Gregorian Chant			
Mills, Rev. J. E., BMus <i>Montr.</i>		†Instr.	
History			
MacCormack, J R, MA <i>Dal</i> , PhD <i>Tor</i>		Asst Prof.	
O'Keefe, Rev C B, MA PhD <i>Tor</i>		Asst Prof	
Latin			
Gallagher, Rev G, SThL <i>St Louis</i> , MS <i>Fordham</i>		Asst Prof	
Giorgini, J. N., PLatt <i>Milan</i>		Asst Prof	
O'Donnell, Rev M. J, SThL <i>Greg</i> , BA <i>Montr</i>		Asst Prof.	
Topp, Rev. G., SThL <i>Greg</i> , BA <i>Montr</i> , PhL DipPhil <i>Louvain</i>		Asst Prof.	
Mathematics			
Burke-Gaffney, Rev. M. W., BA <i>Montr.</i> , BE N.U.I., PhD <i>Georgetown</i> , DEng N.S.T.C.		Prof.	
Philosophy			
Labelle, Rev H J, MA <i>St Louis</i>		Assoc Prof	
McGarry, Rev J J, BA <i>Laval</i> , PhD <i>Greg</i> .		Assoc. Prof	
Stewart, Rev W. A, SThL <i>Greg</i> ,		Assoc. Prof.	
Topp, Rev G, SThL <i>Greg</i> , BA <i>Montr.</i> , PhL DipPhil <i>Louvain</i>		Asst. Prof.	
Physics			
Merdsoy, U S, MSc <i>Roch</i>		Asst. Prof	
Tomscha, F., BA MSc DipPhys <i>Fran</i>		Asst. Prof	
Political Science			
Dalton, W, MA <i>Tor</i> , PhD <i>Ott</i>		Asst. Prof	
Habib, H P, MA <i>Fordham</i> (on leave)		Asst Prof	
Duffie, Rev D J, BA <i>St Jor</i> , BCL <i>New Br. & Oxon</i> , JCD <i>Laval</i>		†Instr	
Sociology			
Rourke, Rev. D, MA <i>Seattle</i>		Assoc Prof.	
Theology			
Gallagher, Rev G, SThL <i>St Louis</i> , MS <i>Fordham</i>		Asst Prof	
Colliard, Rev. A, BA <i>Monti</i> , SThL <i>Greg</i>		Asst. Prof.	

ADMINISTRATIVE AND OTHER STAFF

Dir of Adult Studies Rev M J Belair, SThL <i>Greg</i> . Principal of High School Rev. J. E. Power, BA <i>Montr</i> . Dir of Athletics R. Hayes. Student Counsellor Rev G. Gallagher.	Asst Librarian. S V Rountree, MA <i>Dal</i> , BLS <i>McG</i> . Asst. to the Pres. J. Stirling Dorrance. Univ. Reserve Trg. Officer Capt. G D. MacCrae.
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AFFILIATED INSTITUTIONS

IGNATIUS COLLEGE, Guelph, Ont Founded 1913; enrolment limited to members of Society of Jesus Jr coll. in fac of arts Principal—Rev J Monaghan	REGIS COLLEGE, 403 Wellington St. W, Tor- onto, Ont. Founded 1929, enrolment limited to members of Society of Jesus Principal—Rev E F Shendan.
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ASSOCIATED INSTITUTIONS

HALIFAX SCHOOL OF JOURNALISM, St Mary's Univ, Halifax, N.S (tel. 2-6421). The sch is a jt undertaking of St. Mary's Univ, the Univ of King's Coll, Mt St Vincent Coll, the Halifax <i>Chronicle-Herald</i> and radio station CJCH. The sch, which has its own bd of governors with 2 reps from each instn, grants a dipl in journalism 3 yrs after jr matric. Dean—R J. McCleave, LLB	MARITIME SCHOOL OF SOCIAL WORK, Halifax, NS (tel. Halifax 3-6907) Founded 1941 Provides a yrs' professional trng leading to degree of Master of Social Work (MSW) of St Mary's for approved grads of St Mary's and other recog. univs. Dir.—L T Hancock, MA <i>Cinc</i> & K.C.N.S, BSW <i>McG</i>
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GENERAL INFORMATION

In 1802, Rev Edmund Burke founded Saint Mary's Coll. An act of the legislature of Nova Scotia passed in 1841 and confirmed on several occasions conferred full univ powers. All through its history, Saint Mary's has been under the direction of groups of Roman Catholic clergy. The secular clergy, the brothers of the Christian Schools and the Christian brothers of Ireland have all had charge of the admin. In June 1940, on the invitation of Most Rev J T McNally, archbishop of Halifax, the Jesuit fathers of Upper Canada assumed direction of the coll. A new property was purchased in 1943, and on it was raised the new structure which was opened in Sept 1951. In 1952 the name was officially changed to Saint Mary's Univ.

CONSTITUTION The archbishop of Halifax is, *ex officio*, chancellor of the univ. Under his chairmanship, the senate consists of vice-chancellor and 20 fellows, the pres and vice-pres of the univ are *ex-officio* members. The senate acts chiefly in an advisory capacity. Financial responsibility is vested in the Roman Catholic episcopal corporation of Halifax, and the univ is administered and directed by the fathers of the Upper Canada province of the Soc. of Jesus.

INCOME (1959-60) Total, \$637,297 (fees, 30 per cent., federal grant, 13 per cent., donations, 19 per cent., other sources, 38 per cent.)

FACULTIES AND DEANS *Arts & sci*, Rev W A Stewart (philos.); *comm.*, Assoc. Prof. H G Beazley (acctg.); *educn*, Rev. D J Fogarty, *engm.*, Assoc Prof J L Ryan

LIBRARY 35,000 vols.

LABORATORIES. Biol., chem., electronics, engin, geol., phys.

ADMISSION. See Appendix III

FIRST DEGREES 4 yrs from jr. matric—BA, BSc, BComm. BA hons may be taken in econ., French, hist, Latin, philos, pol sci, BSc hons in chem, BComm can also be awarded with hons

HIGHER DEGREES. STB (bachelor of sacred theol.), 3 yrs after BA; MA in theol., 4 yrs. after BA, MSW, MA in educn, 2 yrs after BA, BED, 1 yr after BA or other bachelor's degree. Courses of instrcn for STB are given at Jesuit seminary (Regis Coll) in Toronto, open to members of Society of Jesus only (see 'Affiliated Instns', above), courses of instrcn. for MSW at Maritime Sch. of Social Work, Halifax (see 'Assoc Instns', above), open to grads of any univ. Also LLD, LittD, DCL, honorary degrees only

EXTERNAL DEGREES are granted in all the above fields. There is no geographical limitation to the areas from which students are accepted, provided they meet the university's entrance requirements, and satisfy the ettec on admissions of their knowledge of Engl.

DIPLOMAS Engin, journalism, 3 yrs. from jr. matric. The dipl in engin enables students to complete a degree course in engin at Nova Scotia Tech. Coll., and certain other univs, after a further 2 yrs

FEES Tuition: arts, \$350 p a; sci, \$380 p a, comm, \$350 p a, engin, \$425 p a. General fee \$45, incl registration fee, library, athletics, health service and students' council

RESIDENCE Accommod available for 230 students. Room and board, \$550 p a

EVENING DIVISION Evg courses provided for men and women who wish to obtain BA, BSc or BComm. Degree work can be completed by evg courses. In addn., 5 series of 10 lectures offered at low cost for interested members of public, no academic credit for these lectures

SUMMER SESSION. A 7-wk session of the univ during July and August; courses offered in arts and comm for univ credit. No degree can be taken by summer session courses only

ENTRANCE SCHOLARSHIPS Include 19 Parish scholps., 10 Knights of Columbus scholps and 15 univ scholps

STUDY LEAVE is granted to staff members after 5 yrs' permanent appt

ACADEMIC YEAR. Sept to May, 2 semesters of 14 wks each.

GRADUATES' ASSOCIATIONS Grad soc. grads. of St Mary's eligible. Alumni assocn. of former St Mary's students eligible

STUDENTS' COUNCIL Pres and vice-pres. elected by student body. Athletic assocn; sodality; debating soc

MILITARY TRAINING Canadian officers' trg corps, univ naval trg. division. Royal Canadian air force summer trg and subsidization schemes.

STUDENT HEALTH SERVICE Includes phys. exam and X-ray at registration. Infirmary in residence, campus physician

PUBLICATIONS *Calendar* (March), *Extension Dept. Calendar*; *Sch of Educn. Programme*; *Adult Studies Programme* Students' publications: *Journal* (fortnightly)

THE YEAR 1960

HONORARY DEGREES *DCL*—Dr J F Leddy,
dean, coll of arts & sci., Sask

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	568	166
Women	6	112
Total	574	278

Distribution by Faculties *Arts*, 332, *comm*,
146, *educn*, 90, *engn.*, 116, *sci*, 98, *soc work*,
8, *theol*, 62 Total 852

Included in the figures above are—

Postgraduate students, 164

New admissions, 323

Students from other countries, 120 (Countries
from which largest numbers came U.S.A., 71,
Hong Kong, 12; W. Indies Fed., 11)

f

DEGREES AWARDED (1959-60) *Arts* · BA, 28
Comm · BComm, 14 *Educn* · MA, 15, BEd,
16. *Sci* · BSc, 6 *Soc work* MSW, 3 *Theol*
STB, 4, MA, 7

DIPLOMAS AWARDED (1959-60) *Engin* · 15

UNIVERSITY OF SASKATCHEWAN*

Founded 1907

Postal Address Saskatoon, Saskatchewan, Canada
Cables and Telegrams University of Saskatchewan, Canada
Telephone Saskatoon CH27671

VISITOR—The Hon F L BASTEDO, QC, LLB *Tor*
CHANCELLOR—F H AULD, MBE, Hon LLD
CHAIRMAN OF GOVERNORS—H C REES, QC, BA LLB
PRESIDENT AND VICE-CHANCELLOR—J W T SPINKS, MBE, PhD DSc *Lond.*, Hon LLD *Car.*, FRSCan
VICE-PRESIDENT (ACADEMIC)—J F LEDDY, BLitt DPhil *Oxon*, Hon. DLitt *St F.X. & Ott*, Hon
DésL *Laval*, Hon LLD *Assum*, Hon DCL *St M*, MA (Classics)
VICE-PRESIDENT (ADMINISTRATION)—A C McEOWN, BSc
DEANS—AGRICULTURE—V E GRAHAM, MS PhD *Wis*, BSA (Agric Bacteriol), ARTS AND SCIENCE—
J F LEDDY, BLitt DPhil *Oxon*, Hon DLitt *St F.X. & Ott*, Hon DésL *Laval*, Hon LLD
Assum, Hon DCL *St M*, MA (Classics), COMMERCE—T H McLEOD, BA *Manit.*, AM *Indiana*,
MPA PhD *Harv.* (Acctg & Comm), EDUCATION—J B KIRKPATRICK, EdD *Col*, BA MED;
ENGINEERING—A PORTER, MSc PhD *Manit.* (General Engin), GRADUATE STUDIES—B W CURRIE,
PhD *McG.*, MSc, FRSCan, HONOR ECONOMICS—HOPE H HUNTER, BA *Tor.*, MSc *Col.*, PhD *Manit.*;
LAW—F C CRONKITE, QC, AM LLB *Harv*, Hon LLD *Br Col*, Hon DCL *Dal.*; MEDICINE—
J W. MacLEOD, OBE, BSc MD *McG.*, PHARMACY—W. C MACAULAY, MS *Pw due*, Hon.
DPharm *Montr.*, BSP, REGINA COLLEGE—W A RIDDLEL, BA BSc *Manit.*, PhD *Stan*, MSc
REGISTRAR—N K. CRAM, CD, BA BED
CONTROLLER—J A PRINGLE, ED, BAac
LIBRARIAN—D C APPELT, MA *Alta*, ABLs *Mich*

TEACHING STAFF

[†=Part-Time]

Accounting and Commerce		Bacteriology, see Medicine	
McLeod, T H, BA <i>Manit.</i> , AM <i>Indiana</i> , MPA PhD <i>Harv</i>	Prof.	Biochemistry	
Goodspeed, Georgia, MBA <i>Chic</i> , BAac	Prof	McArthur, C. S., BA <i>W Ont</i> , MSc	
Lamson, S., MBA <i>W Ont</i> , BComm Assoc Prof		PhD <i>Tor</i>	Prof.
Barber, L I, MBA <i>Calif</i> , BA BComm		Kline, Dorothy K, PhD <i>W.Ont</i> , MA	
Parker, J R E, BCom <i>Dal</i>	Asst. Prof	Marko, A M, MD PhD <i>Tor</i> , BA	Assoc Prof
Walmsley, P Y, MA <i>Tor</i>	Asst Prof	Woodford, V. R, BS <i>Charleston</i> , MSc PhD <i>McG.</i>	Asst Prof
McCartney, R G, BAac, CA	Lectr.	Biology	
Botham, D C, MBA <i>Mich</i> , BComm	†Lectr.	Shaw, M, MSc PhD <i>McG</i>	Prof
Medlicke, C A, DPA <i>Tor</i> , BComm	Instr	Rempel, J G, PhD <i>Corn</i> , MSc, FRSCan	Prof
Muir, R E, MA <i>Manit</i> , BComm	Instr	Vanterpool, T C, MSc <i>McG</i>	Prof
Agriculture, see below		Arnason, T J, PhD <i>Wis</i> , MSc	Prof
Anatomy, see Medicine		Steeves, T A, PhD <i>Harv</i>	Assoc Prof
Art		Cameron, M L, MSc <i>Dal</i> , PhD <i>Camb</i>	Assoc Prof
Snelgrove, G. W, AM <i>Chic</i> , PhD <i>Lond</i> , Prof.		Millet, R S, BA <i>Colorado</i> , DPhil <i>Oxon</i>	Assoc Prof
Bornstein, E, BS <i>Milwaukee State</i> *		Edwards, R L, DPhil <i>Oxon</i> , MA	Asst Prof
Teachers', MS <i>Wis</i>	Assoc Prof		

* Member of the Association of Universities of the British Commonwealth

Chemistry

- McCallum, K. J., PhD *Col.*, MSc, FRSCan Prof.
 Van Cleave, A. B., PhD *McG. & Camb.*, MSc Prof.
 Pepper, J. M., MA *Br. Col.*, PhD *McG.* Prof.
 Eager, R. L., PhD *McG.*, BE MSc Assoc. Prof.
 Baidwell, J. A. E., BA MSc *W. Ont.*, PhD *McG. & Msm.*, DPhil *Oxon* Assoc. Prof.
 Lee, C. C., DSc *M. I. T.*, BE MSc Assoc. Prof.
 Abramovitch, R. A., BSc *Alexandria & Lond.*, PhD *Lond.* Assoc. Prof.
 Tinker, E. B., BE MSc Asst. Prof.
 McEwen, K. Lenore, BA MSc *Br. Col.*, PhD *Camb.* Asst. Prof.
 Shook, C. A., BSc *Alta.*, PhD *Lond.* Asst. Prof.
 DeCoursey, W. J., BSc *Alta.*, PhD *Lond.* Asst. Prof.
 Levine, S., MSc *Alta.*, PhD *Calif.* Asst. Prof.

Classics

- Leddy, J. F., BLitt DPhil *Oxon*, Hon. DLitt *St. F. X. & Ott.*, Hon. DSc *Laval*, Hon. LLD *Assun.*, Hon. DCL *St. M.*, MA Prof.
 Ferguson, R. M., MA *Dub.* Prof.
 Pritchett, C. D., MA *Lond.* Lectr.

Commerce, see Accounting and Comm**Drama**

- Jones, E. M., MA *Alta.* Prof.
 Assoc. Prof.

Economics

- Britnell, G. E., MA PhD *Tor.*, BA, FRSCan Prof.
 Fowke, V. C., PhD *Wash.*, MA, FRSCan Prof.
 Buckley, K. A. H., MA *Tor.*, PhD *Lond.*, BA Prof.
 Alley, J. S. M., MA *Qu.*, AM *Harv.* Assoc. Prof.
 Safarian, A. E., BA *Tor.*, PhD *Calif.* Assoc. Prof.
 Martin, F., MA *McG.* Asst. Prof.
 Neill, R. F., MA *Tor.* Asst. Prof.
 Res, K. J., PhD *Lond.*, MA Sp. Lectr.
 Allan, J. R., BA *McM.*, PhD *Prin.* Sp. Lectr.

Education

- Kirkpatrick, J. B., EdD *Col.*, BA MEd Prof.
 Toombs, M. P., MA MEd Prof.
 Clark, S., BA MEd Prof.
 Langley, G. J., PhD *Col.*, BA MEd Assoc. Prof.
 Deverell, A. F., BA BEd *Alta.*, EdD *Stan.* Assoc. Prof.
 Paul, J. W., BA *Qu.*, MEd *Chc.* Assoc. Prof.
 Cameron, A. A., BA MEd Assoc. Prof.
 McNeill, W. D. D., PhD *Ill.*, BEd Assoc. Prof.
 Fleming, B., BA BEd Asst. Prof.
 Knill, W. D., BEd *Alta.*, MA *Montana*, EdD *Oregon* Asst. Prof.
 Sutherland, I. J. K., BSc *Lond.* Asst. Prof.
 Kaplan, D. L., BM *Roosevelt*, MM *Oberlin* Asst. Prof.

Coombs, W. D., BEd *Alta.*, MA *Minn.*

- Enns, Anna, MEd *Missouri*, BA BEd Asst. Prof.
 Peters, H. D., MA *Arizona State*, PhD *Alta.* Asst. Prof.
 Ross, Janice, BA *Acad.*, MA *Col.* Asst. Prof.
 Day, S. E., BA *Central Wash. Coll.* Sp. Lectr.
 Buckley, L. P., BA BEd † Lectr.
 McKinnon, F. A., BA MEd † Lectr.

Engineering, see below**English**

- King, C. A., MA PhD *Tor.*, BA Bateman Prof.
 McCourt, E. A., BA *Alta.*, MA *Oxon.* Prof.
 Tracy, C. A., BA *Tor.*, PhD *Yale* Prof.
 O'Donnell, Rev. J. L., MA *W. Ont.* Prof.
 Smith, J. P., PhD *Calif.*, MA Prof.
 Cherry, D. R., PhD *Tor.*, MA Assoc. Prof.
 Chambers, R. D., BA *McG.*, MA *Oxon* Asst. Prof.
 Pilecki, Rev. G. A., MA *Tor.*, PhD *Conn.* Asst. Prof.
 Plumstead, A. W., BA *W. Ont.*, MA PhD *Roch.* Asst. Prof.

French

- Bujala, Mrs. Bernadine, AM *Col.*, PhD *Mich.*, BA BEd Prof.
 Cameron, Margaret, MA *McG. & Radcliffe*, DU *Paris* Prof.
 Mallon, Rev. J. P., MA *Tor.*, DU *Laval* Prof.
 Ridgway, R. S., BA *Sheff.*, MA *Manit.*, DU *Aix-Marseille* Asst. Prof.
 Black, M., BA *Manit.*, MA *Col.* Asst. Prof.

Geography

- Richards, J. H., BSc *Wales*, MA PhD *Tor.* Prof.

Geology

- Mawdsley, J. B., MBE, BSc *McG.*, PhD *Prin.*, FRSCan Prof.
 Edmunds, F. H., MSc *Lav.*, FGS, FRSCan Prof.
 Byers, A. R., MSc PhD *McG.*, FRSCan Prof.
 Kupsch, W. O., MSc PhD *Mich.* Assoc. Prof.
 Palmer, R. C., BE *McG.* Assoc. Prof.
 Caldwell, W. G. E., BSc PhD *Glas.* Asst. Prof.
 Hall, D. H., BSc *Alta.*, MA *Tor.*, PhD *Br. Col.* (Geophys.) Asst. Prof.
 Coleman, L. C., MA *Qu.*, PhD *Prin.* Asst. Prof.
 Wardlaw, N. C., BSc *Mane.* Sp. Lectr.

German (including Norwegian)

- Anstensen, A., MBE, MA PhD *Col.* Prof.
 Gunvaldsen, K. M., MA PhD *Wis.* Assoc. Prof.

History

- Neatby, Hilda, PhD *Minn.*, Hon. LLD *Tor.*, MA, FRSCan Prof.
 Lighthbody, C. W., MA *Tor. & Oxon.*, PhD *Corn.*, BA Assoc. Prof.

Murray, Jean E, MA *Tor & Sask.*, PhD
Chc Assoc Prof
 Graham, W R, BA *Manit*, MA PhD *Tor*
 Assoc Prof
 Finn, Rev R W, BA *W Ont*, MA *Tor.*,
 LMS *Pontif Inst, Tor* Assoc Prof.
 McConica, J. K., MA *Oxon*, BA Asst Prof
 Lambi, I N, MA *Tor*, PhD *Minn* Asst Prof

Home Economics

Hunt, Hope H, BA *Tor*, MSc *Col*,
 PhD *Minn.* Prof
 Rowles, Edith C., MSc *Wis*, EdD *Col*,
 BHSc Assoc Prof
 Harris, Marjorie, BA(HSc) *Tor* Asst Prof
 Guilford, Marjorie, BSc *Manit*, AM *Col*
 Asst Prof.
 Campbell, F Elizabeth, BSc *Alta*,
 MSc *Corn*. Asst Prof.

Horticulture, see Agriculture, below**Law**

Woods, M J, MBE, QC, BA LLB Prof
 Leng, O, BCL *Oxon*, BA LLB Assoc Prof
 Williams, D C, BA *Wales*, LLB MA *Camb*,
 LLM *Calif* Assoc Prof.
 Tollefson, E A, BCL *Oxon*, BA LLB
 Asst Prof
 Payne, J D, LLB *Lond* Asst Prof
 Maguire, P H, QC, BA LLB †Lectr
 Schmeiser, D A, BA LLB †Lectr
 Shershtobitnoff, N W, BA LLB †Lectr
 Tallis, C F, BA LLB †Lectr
 Taylor, G J D, LLB †Lectr
 Wedge, J B., BComm LLB †Lectr.

Mathematics

Ferns, H H, PhD *Tor*, BA Prof.
 Miller, C. E, MA PhD *Tor* Prof.
 Guinand, A. P., BSc *Adel*, DPhil *Oxon* Prof
 Blum, R., PhD *Bucharest* Assoc. Prof
 Butler, R., MSc PhD *Mane.*
 Visiting Assoc. Prof.
 McEown, A. C., BSc Asst. Prof
 Shklov, N., BA *Manit*, MA *Tor*. Asst. Prof
 Thomas, G. H. M., BSc *Manit*, MS
 PhD *Wis* Asst Prof
 Kaller, C. E., BEd MA Asst Prof
 Kimura, N., BA *Osaka*, PhD *Tulane* Asst Prof
 Hussam, S. A., PhD *Purdue* Sp. Lectr

Medicine, see below**Music**

Adaskin, M Prof.,
 Reisman, A., MMus *Roch.* Asst. Prof.

Nursing

Keeler, Hazel B, AM *Col*, BA
 Prof, Dir of Nursing Educen
 Kernen, Hester J, BS AM *Col* Assoc Prof.
 Willis, Lucy D, BS AM *Col* Asst. Prof

Hibbert, Dorothy, BS MA *Col* Asst. Prof
 Worthy, Elizabeth, BN *McG* Lectr
 Crawford, Myrtle E., MA *Col*, BSN
 Sessl. Lectr.
 Sellars, Betty L., BSN †Lectr.

Pathology, see Medicine, below**Pharmacy**

MacAulay, W. C., MS *Purdue*,
 Hon DPharm *Mantr*, BSP Prof
 Jeffrey, J. G., PhD *Wu*, BSP MSc Prof.
 Wood, J. A., MS PhD *Wash*, BSP Assoc Prof.
 Summers, J. L., MC, MS *Iowa*, BSP Assoc Prof.
 Duff, J. G., PhD *Florida*, BSP MSc Assoc Prof
 Ready, K. A., BSP †Lectr.

Philosophy

Miller, L., BA *Br Col*, MA *Wash*,
 PhD *Corn* Assoc Prof
 Finn, Rev R. W., BA *W Ont.*, MA *Tor*,
 LMS *Pontif Inst, Tor* Assoc Prof.
 Stokes, Rev T J, MA *Tor* Asst Prof

Physical Education

Orban, W. A. R., MS PhD *Ill* Prof.
 Leicester, J. B., MEd *Minn.*, BA BEd Asst. Prof.
 Nixon, H. R., BPE *Br Col*, MS *Indiana*
 Asst. Prof.
 Lawson, Patricia, MA *Oregon*, BA BEd
 Asst Prof
 Burgess, D. L., MA *Denver* Asst. Prof.

Physics**Professors**

Currie, B. W., PhD *McG*, MSc, FRSCan
 Haslam, R. N. H., PhD *McG*, MA, FRSCan
 Katz, L., MSc *Qu.*, PhD *Cal. Tech.*, FRSCan

Associate Professors

Hunten, D. M., BA *W Ont*, PhD *McG*.
 Jones, A. V., MSc *N.Z.*, PhD *Camb*

Assistant Professors

Cormack, D. V., MSc *Alta*, PhD
 Skinner, R. O., BA *Tor*, MS PhD *Cal Tech*.
 Shepherd, G. G., PhD *Tor*, BE MSc
 Skarsgard, H. M., PhD *McG*, BE MSc
 Kavadas, A. D., DiplPhys *Thessaloniki*, PhD *Tor*.
 King, J. D., BA *Tor*, PhD

Physiology and Pharmacology

Jacques, L. B., MA PhD *Tor*, FRSCan Prof
 Millar, G. J., BA PhD *Tor*. Prof.
 Sutherland, C. B., BA *Br. Col*, PhD *Stan*.
 Assoc Prof
 Grindeland, R. E., PhD *Iowa* Asst. Prof
 Lipp, J. A., BSc *N Dakota*, MS *Idaho* Sp Lectr

Political Science

Britnell, G. E., MA PhD *Tor*, BA,
 FRSCan Prof.
 Ward, N. M., BA *McM.*, MA PhD *Tor*. Prof

CANADA

Callaghan, Rev. J. F., MA *Tor*
Watt, E. D., BA BEd *W Aust*

Asst Prof
Asst Prof

Psychology

McMurray, G. A., MA *Bishop's*, PhD *McG* Prof
Rennie, R. A., BA BEd Assoc Prof
Mogenson, G. J., MA Asst Prof
Sydiah, D., MSc *McG*, BE Asst Prof

Slavic Studies (including Russian, Polish, Ukrainian)

Andrusyshen, C. H., MA *Manit.*, PhD *Tor* Prof
Buynak, V. O., MA *Alta.* Asst Prof

Sociology

Du Wors, R. E., AB *Bates*, MA PhD *Harv* Prof
Abramson, E. J., BA *Temple*, MA *Penn* Prof
Montague, Rev. R. M., BA *Tor*, MA *Assum.* Prof
Asst Prof

AGRICULTURE

Animal Husbandry

Bell, J. M., BSA *Alta.*, MSc *McG*, Prof
PhD *Corn.*
Howell, W. E., BSA *Tor*, MS PhD *Minn.* Assoc Prof
Williams, C. M., MSc *Br Col.*, PhD *Oregon* Assoc Prof
Owen, B. D., MSc *Alta.*, PhD Asst Prof

Bacteriology, Agricultural

Graham, V. E., MS PhD *Wis*, BSA Prof
Myhr, A. N., MS PhD *Minn.*, BSA Assoc Prof

Dairy Science

Gibson, D. L., MBE, BSA *Manit.*,
MSc PhD *Minn* Prof
Myhr, A. N., MS PhD *Minn*, BSA Assoc Prof
Humbert, E. S., PhD *Mich State*, BSA
MSc Asst Prof

Farm Management

Van Vliet, H., MSc Prof.
Thair, P. J., PhD *Iowa*, BSA MSc Assoc Prof
Nicholson, R. C., BSA MSc *Manit* Asst Prof

Field Husbandry

White, W. J., PhD *Minn.*, BSA MSc Prof.
Associate Professors
Knott, D. R., BSA *Br Col.*, MS PhD *Wis*.
Naylor, J. M., PhD *Wis*, BSA MSc
Larter, E. N., MSc *Alta.*, PhD *Wash*
Assistant Professor
Sosulski, F. W., MS *Wash.*, BSA

Horticulture

Nelson, S. H., BSA *Tor*, PhD *Mich State* Assoc Prof

Mechanics, see Agric. Engrn, below

Plant Ecology

Coupland, R. T., BSA *Manit*, Prof.
PhD *Nebraska*
Dix, R. L., MS C U A, PhD *Wis* Assoc. Prof

Poultry Husbandry

Rae, W. J., BSA *Manit.*, MSc *Wis* Prof
O'Neil, J. B., MSA *Br.Col* Assoc Prof

Soil Science

Hutcheon, W. L., PhD *Minn.*, BSA MSc Prof.
Rennie, D. A., PhD *Wis*, BSA Assoc. Prof
Paul, E. A., MSc *Alta*, PhD *Minn.* Asst Prof
St. Arnaud, R. O. J., BSA MSc Asst Prof

Veterinary Science

Connell, R., DVM *Tor*, MS *McG* Prof
Miller, J. L., BVS *Tor* Assoc. Prof
Spalatin, J., DVM *Zagreb*, PhD *Ludwig*
Visiting Asst Prof

Vocational Agriculture, see below

ENGINEERING

Agricultural Engineering

Symes, O. L., BA BE Assoc Prof
Murray, J. M., MS *Utah*, BE Assoc Prof
Zoer, G. C., PhD *Mich State*, BE Assoc Prof
Moyssey, E. B., MS *Iowa*, BE Asst Prof
Beach, D. H. C., BE Asst Prof.
Gray, D. M., BSA *Br Col*, MSA *Tor*,
PhD *Iowa* Asst Prof
Lampman, W. P., BE Asst Prof
Strayer, R. C., BE Lectr

Chemical Engineering, see Chem.

Civil Engineering

Douglas, A. H., BE Prof
Forsberg, C. R., MSc Prof
Smith, C. D., BSc *Alta.* Assoc Prof
Lackie, T. H., BSc *Br.Col*, MSc *Tor*. Assoc. Prof
Riemer, P., BE Asst Prof.
Nes, V. V., BSc *Alta.*, MSc *McG*. Asst Prof
Noble, C. A., MSc *Alta* Asst Prof.
Wigham, J. M., MSc *Alta.* Asst Prof.
Kennedy, J. B., BSc *Wales*, MSc *Tor*. Asst Prof.
Tweddell, I. W., BE Asst Prof
Wright, P. M., BE Lectr
Leslie, W. G., BSc *Idaho* Lectr
McCoy, W. B., BEng *McG* Lectr
Domaschuk, L., BSc *Manit*, MSc *Alta* Lectr

Electrical Engineering

Moody, N. F., MIEE Prof
Michalenko, A., DIC, BSc *Manit* Assoc. Prof.
Ludwig, R. E., BSc *Manit*, MSc *Ill.* Assoc. Prof.
Maksymuk, D., BSc *Manit* Assoc. Prof.
Ratz, H. C., BAsC *Tor*, SM *M.I.T.* Asst. Prof.

Cobbold, W. C., BSc *Lond*, MSc Asst Prof
 Holmlund, B. A., BE (Biomed Engin) Lectr
 Fleming, R. J., BE Lectr
 Wacker, A. G., BSc(EE) *Qu* Lectr
 Pratt, B. G., BE Lectr

Engineering Physics, see Phys

Geological Engineering, see Geol

Mechanical Engineering

Mantle, J. B., MS *Ill*, BE Prof
 Staples, W. R., MS *Ill*, BE Prof
 Mann, O., MS *Iowa*, BE Assoc Prof
 Green, G. H., MS *Ill*, BE Assoc Prof
 Garber, S., BEng *McG*, PhD *Sheff* Assoc Prof
 Sundaram, S., MA PhD DSc *Annam*,
 MS *Ill Tech Inst* Assoc Prof
 Nikforuk, P., BSc *Qu*, PhD *Manc* Asst Prof
 McDonald, T. W., MSc *Qu* Asst Prof
 Brooks, E. E., BE MSc Asst Prof
 Besant, R. W., BSc *Manit*, MSE *Prim* Lectr
 Hamblin, F. D., BSc *Dalh* Lectr
 North, W. P. T., BSc *Qu* Lectr
 Whelan, J. M., BE Lectr

Petroleum Engineering

Nind, T. E. W., MA *Camb* Asst Prof

MEDICINE

Anæsthesia

Wyant, G. M., MD *Bologna*, FFARCS Prof
 Kidduff, C. J., MB BCh *N U I* Asst Prof
 Boutros, A. R., MB ChB *Cauo*, FFARCS
 Upthegrove, W. E., MD *W. Ont* †Asst Prof

Anatomy

Altschul, A., MUD *Prague* Prof
 Fritsche, W., MUD *Mains* Assoc Prof
 Fedoroff, S., MA PhD Asst Prof
 Groenendyk, Margot M., MD DSc *Amst*
 Sp Lectr

Bacteriology

Dempster, G., BSc MD *Edin* Prof
 Wiley, B. B., MA *Kansas*, PhD *Roch* Asst Prof
 Webb, S. J., MSc PhD *Lond* Asst Prof
 Grodums, I., DDS *Riga*, PhD Asst Prof
 Webb, S. J., DIC, MSc PhD *Lond* Asst Prof

Cancer Research

Begg, R. W., BSc *K C N S*,
 MSc MD *Cal*, DPhil *Oxon* Prof
 Bather, R., MA *Tor*, PhD *Edin* Assoc Prof
 Hrushovetz, S. R., BSc *Manit*, MSc *Alta*,
 PhD *Tor* Assoc Prof

Medicine

Hillard, I. M., BA MD *Tor*, FRCPCan Prof
 Bailey, A. A., MD *Tor*, MS *Minn* Prof

Associate Professors

Horlick, L., MD CM MSc *McG*, FRCPCan
 Anderson, J. F. C., MD *Tor*, BA Hon LLD (†)
 Baltzan, D. M., MD CM *McG*, FRCPCan (†)

Assistant Professors

Buchan, D. J., MD *Manit*, BA, FRCPCan
 Merriman, J. E., MD CM *Qu*, FRCPCan
 Baxter, D., MD CM *Qu*, MSc *McG*
 Baugh, C. W., MD CM *Qu*
 Beck, R. N., BCh MD *Qu*, MRCPed
 Brenner, R. M., MD *Tor* (†)
 Burkell, C. C., MD *Tor*, BSc (†)
 Dundee, J. C., MD *Manit*, BA (†)
 Mitchell, D. M., MD *Manit*, BA (†)
 Sugerman, H., MD *Manit* (†)

Obstetrics and Gynaecology

Brown, A. B., MD CM *Qu*, FRCSCan Prof
 Clemetson, C. A. B., BM BCh MA *Oxon*,
 Asst Prof
 MacPherson, R. H., BSc *Acad*, MD
 CM *McG*, FRCSCan †Asst Prof
 Crockett, K. M., MD CM *McG*, BA †Asst Prof

Ophthalmology

Murray, R. G., MD *Tor*, BA, FRCSCan Prof
 Drance, S. M., MB ChB *Edin*, FRCS
 Assoc. Prof.
 Gcnereux, A. G., MD *Alta* †Asst Prof.

Pathology

Moore, D. F., MD BScMed *Tor* Prof
 Adams, J. W., MD *Tor* Assoc Prof
 Newell, J. E., MSc MD *Manit* Assoc Prof
 Braun, E. H., MRCPed Asst Prof

Pediatrics

Geisaid, J. W., BA DM *Oxon*, MRCP Prof
 Jeger, Wanda, MD *Phan* Asst Prof
 Buckwold, A. E., MD *Tor* †Asst Prof
 Kinnear, W. S., MD *Tor*, BSc †Asst Prof
 Goluboff, N., MD *Manit* †Asst Prof

Physiology and Pharmacology, see above

Psychiatry

McKerriacher, D. G., MD *Tor* Prof
 Coburn, F. E., BA MD *Tor* Prof
 Hoffer, A., PhD *Minn*, MD *Tor*, BSA
 MSc Assoc Prof
 McDonald, I. M., MD *Manit* Asst Prof
 Smith, C. M., MB ChB *Glas*, FRCPCan
 Asst Prof

Radiology, Diagnostic

Spencer, R. W., MD *Manit* Prof
 Traub, S. P., MD *Tor* Assoc Prof
 Smart, M. J., MB BS *Lond* Asst Prof
 MacDonnell, A. B., MD CM *Qu* †Asst Prof
 Becker, A., MD CM *McG*, BSc †Asst Prof

Radiology, Therapeutic

Watson, T. A., MB ChB *N Z*, DMR *Lond* Prof
 Burkell, C. C., MD *Tor*, BSc Assoc Prof

Cowan, G A B, MB ChB *Glas*
Cormack, D. V., MSc *Alta*, PhD
Fedoruk, Sylvia, MA

Asst Prof
| Lectr
Lectr

Stratford, J G., MSc MD CM *McG*,
FRCSCan Assoc Prof.
Robinson, C N L, MD *Qu*, FRCSCan
Assoc Prof

Rehabilitation Medicine

Hunt, T E, MD *Tor*, FRCPCan Prof
Cameron, M. G P, MD *Tor*, FRCPCan
Asst. Prof.

Weder, C. H., MD *Alta*, FRCSCan Assoc Prof
Campbell, J M., MD *Manit*, BA, FACS
| Asst Prof

Social and Preventive Medicine

Robertson, A., MB ChB *Edn*, DPH *Lond* Prof
Swanson, A. L., BA *Br. Col.*, MD CM *McG*,
MHA *Northwestern* † Asst Prof.

Hazen, G M T, MD *Tor* † Asst Prof
Kunkel, M G, MD *Tor*, FRCSCan † Asst Prof.
Stark, E J, MD *Tor* † Asst Prof.
Paine, K W E, MB BS *Lond*, FRCS † Lectr.

Badgley, R F, MA *McG. & Yale*,
PhD *Yale* Asst Prof
Steele, R., DPH *Edn* Asst. Prof
Dantow, M., BSc *N.Y.*, MB ChB *Glas.*,
DPH *Tor* Asst Prof
Wolfe, S., MD *Tor*, MPH *Col* Asst Prof.

EXTENSION

Ramsay, R., MS *Minn*, BSA Prof., Dir.
Paul, L C, PhD *Iowa*, MSc Prof
Robinson, D. R., BSA Assoc. Prof.
Patillo, Margaret, BSc *Acad*, MSc *Misch*.
Assoc Prof, Dir of Women's Work
Winick, A., BA *Br. Col.*
Supervisor, Adult Educn. Services

Surgery

Nanson, E M., MB ChB *N.Z.*, FRCS Prof.
Jackson, B A., MD *Tor*, BSc, FRCSEd,
FRCSCan † Assoc Prof
Leddy, J E., MD CM *McG.*, BA, FRCSEd,
FRCSCan † Assoc. Prof.

VOCATIONAL AGRICULTURE

Stilborn, A A., BA BSA *Bed*
Assoc Prof, Du

ADMINISTRATIVE AND OTHER STAFF

Supt of Bldgs - J. A. Wedgwood, BE. Dir. of
Correspondence Courses - D. D. Cameron, MA
PhD Alumni Sec - F. Lovell, BComm Dir.

Centre for Community Studies W B Baker,
BSA

CONSTITUENT COLLEGES

REGINA COLLEGE, Regina, Saskatchewan (tel
Regina LA27348) Establd 1911, the coll pro-
vides 1st & 2nd yrs. of BA and 1st yr of most
other degree courses.

W. A. Riddell, BA BSc *Manit*, PhD *Stan*,
MSc, Dean, H. Leyton-Brown, DFC, Dir. of
Conservatory, K C Lochhead, Dir of Art.

Academic Dept. - ART—A F. McKay, Lectr.
BIOCHEM.—R M Agnew, MSc *Dal*, PhD *Camb*,
† Lectr BIOL—G F Ledingham, PhD *Wis*,
MSc, Assoc Prof CHEM—The Dean, A M
Kristjanson, PhD *McG*, MA, Assoc. Prof;
O G Holmes, PhD *Col*, MA, Asst. Prof
CLASSICS—S E Stewart, MA *Dal.*, Asst Prof
ECON & POL SCI—F. W. Anderson, MA, Asst
Prof; D. Chmehaga, MA, Lectr. ENGIN—
A A McKinnon, BE, Lectr. ENGL.—Lucy H
Murray, MA *Tor*, PhD *Chc.*, BEd, Assoc. Prof;
L. G Crossman, PhD *Wash.*, MA BEd, Assoc.
Prof. FRENCH—Margaret Belcher, MA *Tor*, BA,
Assoc. Prof. HIST—L H. Thomas, PhD *Minn*,

MA, Assoc. Prof., H. Mitchell, BA *Manit*, MA
Tor., PhD *Lond*, Asst. Prof. MATHS—W C.
Blight, BSc *Manit*, Asst Prof; K G Toews,
MSc BEd, Asst Prof PHYS—L. H. Groenberg,
MSc *Alta*, PhD, Assoc. Prof

ST THOMAS MORE COLLEGE, Saskatoon, Sas-
katchewan, Canada (tel Saskatoon CH46074)
Establd. 1936, the coll provides, in co-operation
with the coll of arts and sci, all courses leading to
the BA degree

Principal, Prof of ENGL.—Rev J L.
O'Donnell, MA *W. Ont.*; Rev. G. A. Pilecki,
MA *Tor*, Asst Prof. ECON. & POL. SCI.—Rev.
J F Callaghan, MA *Tor*, Asst Prof FRENCH—
Rev J P. Mallon, MA *Tor*, DULaval, Prof.
HIST. & PSYCHOL.—Rev. R W. Finn, MA LMS
Tor, Assoc Prof PHILOS.—Rev R. M. Mon-
tague, BA *Tor*, MA *Assum*, Asst Prof Adviser
to Women—Mrs Bernadine Bujala, MA *Col*,
PhD *Mich.*, BA BEd.

AFFILIATED COLLEGES

EMMANUEL COLLEGE, Saskatoon (tel. Saskatoon CH23066) Establd 1879 for training Anglican clergy. Courses for testatur, LicTh, BD, which are conferred by the coll. Principal—Rev F. H. W. Crabb, BD

LUTHER THEOLOGICAL SEMINARY, Saskatoon (tel. Saskatoon WI97818) Establd 1914 for training of men for the gospel ministry. A 3-yr course in theol. leads to the candidate in theology dipl., and with addnl requirements, to the degree of BD conferred by the seminary. President—Rev G. D. Evenson, BA MTh DD

ST ANDREW'S COLLEGE, Saskatoon (tel. Saskatoon CH23025) Establd 1912 for training for the ministry of the United Church of Canada. Authorized to confer degrees in div (BD and DD). Principal—Rev R. F. Schnell, MA PhD.

ST CHAD'S COLLEGE, Regina (tel. Regina

LA 23187) Establd. 1907 for training students in div. Course for testatur, LicTh, BD, DD, which are conferred by the coll. Warden—Rev N. D. Pilcher, MA LST

SASKATCHEWAN TEACHERS COLLEGE, with branches at Saskatoon and Regina, is administered by the provincial dept. of educn., province of Saskatchewan. A 1-yr course leads to a teaching cert. Its dipl. counts for credit for the work of the 1st yr of the bachelor of educn. degree course at the univ. provided admission requirements of the coll of educn are met. Principals—Regina, H. C. Andrews, BSA BEd, Saskatoon, S. W. Stinson, MA EdD

JUNIOR COLLEGES—Campan Coll, Regina; St. Peter's Coll, Muenster, Luther Coll, Regina. These colls provide courses for 1st yr. of BA

GENERAL INFORMATION

The act establishing the univ. was passed by the legislative assembly of the province in 1907. The 1st classes in arts & sci. began in 1909, and the 1st bldg on the campus was opened for admission of students in 1912. The other colls. and schs. were establd as follows: agric. 1912, engin 1912, law 1913, pharm. 1914, comm. (acctg.) 1917, med. 1926, educn 1927, home econ. 1928, nursing 1928, grad. studies 1946, phys. educn 1958. Some of these began work as schs. under the administration of other facs, but all have since become colls with the exception of nursing, which remains a sch. under the jurisdiction of the coll of med and phys. educn under the coll of arts and sci. St. Thomas More Coll., establd by the Fathers of St. Basil in 1936, gives classes in most arts subs. on the same footing as the coll of arts and sci. In 1934 Regina Coll was taken over by the univ. and continued as a jr. coll with a conservatory of music and a sch. of art.

CONSTITUTION Convocation has power to consider all matters affecting the interests and well-being of the univ. and to make representations thereon to the senate. The senate grants degrees, authorizes establd of scholps, etc., colls, depts., chains of courses of instructn within the univ., and considers and determines all courses of study. The bd of governors is vested with the management, admin. and control of the property, revenues, business and affairs of the univ. It has the duty and power to erect and maintain bldgs., to expend money on their maintenance and equipment, to provide for the establd and maintenance of facs, depts., chains, exhibitions, scholps, etc., determined by the senate, and appoints univ. staff. The univ. council conducts exams., and considers for report to senate courses of studies and other educnl matters. The facs. of the colls have charge of all matters of scholarship within each coll. Advisory councils for the

colls of agric., educn and med. consider and report to the senate and bd. of governors on general regns and courses of study. The chancellor is elected by members of convocation and holds office for 3 yrs. He presides over convocation, confers degrees and is chairman of the senate and a member of the bd of governors. The pres., who is also the vice-chancellor, is apptd by the bd of governors. He has general supervision over and direction of the academic work of the univ., the teaching staff and the student body. Deans of colls have general supervision over the direction of the work, of the teaching and tlg of the students in all depts. of their colls. Hlde of depts. have general supervision and direction of the work of their depts.

INCOME (1958-59) 'Total income, excl ancillary enterprises, \$6,555,847 (fees, 20.8 per cent., federal govt., 17.6 per cent., provincial govt., 38.1 per cent., res. grants, 17.1 per cent., misc., 6.4 per cent.)

COLLEGES AND SCHOOLS Agric., arts & sci., comm., educn., engin., grad. studies, home econ., law, med., nursing, pharm., phys. educn. See also p. 317

UNIVERSITY PRECINCT. The univ. is situated on the S. Saskatchewan River at the edge of the city of Saskatoon. Its site comprises 2,400 acres of which 300 acres have been set apart for the campus and the rest are used for the univ. farm and experimental plots. In the city of Regina the univ. owns the Regina Coll property incl. 25 acres on Wascana Lake. The univ. also has a 131-acre site on Emma Lake with several bldgs. for an art camp. The land, bldgs. and equipment cost about \$15,081,000. The maintenance of the univ. is partly provided for by assignments of revenue and legislative grants.

LIBRARIES. 185,870 vols. Murtry Memorial

Libr houses the main libr, Coll of Law, incl law libr and local office of the Saskatchewan archives. Besides law libr, the following branch libr. are maintained: chem, engin, geol, phys, med. Shott lib of Canadiana (source material for Canadian hist, esp the prairie region)

LABORATORIES ETC Biol, chem, geol, phys, agric. (animal diseases, animal husb, dairy, field husb, soils, hort), engin (agric, civil, elect, mech, petrol), med (anat, bacteriol., biochem., pathol., physiol., cancer & med res), home econ., pharm. Univ. farm Agric exper fields Sp provision for res in the various branches of agric. Observatory

TEACHING HOSPITAL. Univ hosp

CENTRE FOR COMMUNITY STUDIES The chief purpose of the centre is to collaborate with communities in identifying and understanding the conditions which make for soc and econ progress through self-help. The work of the centre is organized under a 3-phase programme: soc res, leadership trg, community consultation.

INSTITUTE FOR NORTHERN STUDIES Has as its object the acquisition of new knowledge regarding the Canadian north and the academic trg of personnel in fields of study having a bearing on the north

INSTITUTE OF UPPER ATMOSPHERIC PHYSICS. Works in co-operation with dept of phys of the univ

CANCER RESEARCH UNIT of the Natl Cancer Inst.

ADMISSION. See Appendix III.*

FIRST DEGREES. BA (in arts and in sci subs), 3 yrs from sr matric, pass (4th yr for hons in biochem, biol, chem., econ, Engl, French, geol, German, Greek, hist, histol, Latin, maths, philos, phys., physiol, pol sci, psychol, social), BSA (agric.), BComm, BEd, BE (engin.), BSHEC (home econ.), BSP (pharm.), BA(PE) (phys. educn), 4 yrs from sr matric; LLB, 3 yrs after 2 yrs in arts & sci, BSN (nursing), 5 yrs from sr matric. incl 2 yrs in hosp.; BSc(Med), 5 yrs from sr matric, MD, 4 yrs after 2 yrs. in arts & sci. The univ. has the sole right to confer degrees (other than degrees in theol.) in the province

HIGHER DEGREES MA, 1 yr min from hons BA; can be taken in all subs. in which BA hons is offered. MSc, 1 yr min from 4 yr sci. degree; can be taken in agric (incl. agric mech, animal husb., dairy sci., farm mgt, field husb, plant ecol., poultry, soil sci), biol., chem, geol, phys., engin (incl agric, civil, elect, mech, petrol), med. scis. (incl anat., bacteriol., biochem., cancer res., physiol., pathol., psychiatry), pharmacy MEd, 1 yr. min from BEd. PhD, 3 yrs min from BA (hons) or equivalent; 2 yrs min from master's degree; can be taken in anat, animal husb., biochem, biol, chem, econ, engin, (incl agric., elect, mech), field husb, geol, hist, pharmacol., phys, plant ecol, pol. sci. Candidates for PhD must have taken some part of

previous educn. at another univ, exemptions may be made in special cases. Higher degrees are open to grads of other univs. Min of 1 yr residence required for master's, min. of 2 yrs for PhD degree. Courses of instruct and supervised res are required for all higher degree

HONORARY DEGREES LLD, DCL, DSc, DLitt.

The univ. does not award EXTERNAL DEGREES, but students may complete 1 yr. of arts by correspondence

DIPLOMAS AND CERTIFICATES. Assoc in arts (specially designed for jr colls), 1 yr. Assoc. in educn, 2 yrs. Dipl. in agric. (for young farmers), 2-yr practical course. Dipl. in nursing, 3 yrs. Postgrad dipl in educn (for grads in arts & sci, agric, comm, engin, home econ), 1 yr, dipl for grad nurses (3 courses offered), 1 yr, dipl. in bus. admin (for grads of coll other than comm), 1 yr, cert in clin. lab technique, 1 yr after BA, dipl in hosp lab. technique, 2 yrs; assoc in music, min 1 yr, licentiate in music, min. 2 yrs. Evg cert courses in acctg, bus admin, pub. admin

OTHER COURSES Short courses in agric and allied subs, and for professional groups

The univ conducts the LICENCE EXAMS for the following professions: med and surg, law, dent., acctg, archit, nursing, vet sci, optometry, pharmacy, land surveying, dent. technicians, chiropody, chiropractors, embalming, music, naturopathy.

RESEARCH AND POSTGRADUATE COURSES. Postgrad. courses available in most depts. Inst of Upper Atmospheric Phys (see above) Also located on the campus are the following res labs which work in co-op with the univ: Prairie Regional Lab of Natl Res. Council, Canada Dept of Agric. Res Lab, Saskatchewan Res Council

STUDY LEAVE Members of staff are granted study leave for 1 yr with half salary or a half yr. with full salary after 7 yrs' service, after 14 yrs, 1 yr with 80 per cent. salary is granted. Five or six members are allowed study leave each yr

FEES Tuition p a fee degree courses, agric, arts & sci, educn, home econ, nursing, \$200-\$225, comm., law, pharm, \$225-\$250, engin., \$275-\$350; med, \$425-\$475, grad studies, \$175, sch of agric, \$100

ACADEMIC YEAR Sept.-May two terms of 14 to 15 wks each

ADULT EDUCATION Correspondence courses in arts (max of 1 yr credit); depts. of agric extension and women's work provide lectures, demonstrations and short courses, incl courses for rural boys and girls in agric and home-making. Also adult educn courses and lecture courses at the univ for those not intending to read for a degree. Degree credit courses and cert non-degree credit courses offered as evg classes (see above)

VACATION COURSES Summer sch. of 6 wks. held in July-Aug. Classes offered in arts & sci. and educn mainly for teachers. Intersession of 6

wks. held in May-June. A limited number of classes offered for arts & sci, comm and educn students.

'OPEN' SCHOLARSHIPS FOR GRADUATES Saskatchewan govt res fellowships for preparation for a career in scientific and indust res, \$800 or \$1200 each. Consolidated Mining and Smelting fellowship for grads. in sci, engn, or agric, \$1000 plus \$500 for equipment. National Res. Council bursaries of \$800, studentships of \$1200 to qualified grads in biol, chem, engn, geol, metall, mineral, phys and maths. Agric. Res. Foundation scholp, \$1000, 2 yrs. Canadian Industries Ltd fellowship in chem, \$2000 plus \$300 for maintenance. Saskatchewan approved Hatchery Assocn scholp (poultry), \$600. Univ of Sask scholps (5) in humanities and soc. scs for students proceeding to MA, \$975. Univ. of Saskatchewan grad ass'tships in agric, biol, chem, educn, engn, geol, maths, med, phys, to students proceeding to MA or PhD, \$1500.

ALUMNI ASSOCIATION Central office at the univ. with branches in most large cities across Canada. Official publication, *The Green and White*, pub'd 4 times a yr, and also other information bulletins which are forwarded to all members.

STUDENT RESIDENCE Hostels for 245 men and 105 women. Men: Qu'Appelle Hall, sch of agric. Women: Saskatchewan Hall. All residences are situated on the univ campus. Bd and room fees, \$62 to \$69 per month.

JOINT SERVICES UNIVERSITY TRAINING Trg for officers for the armed forces is provided through the univ naval trg division, the univ contingent of the Canadian officers' trg corps and the Royal Canadian air force (auxiliary) univ flight.

STUDENT HEALTH SERVICE Univ clinic on the campus. All students pay a sickness and accident fee for med services. Out-of-province students pay a hospitalization fee.

STUDENTS' REPRESENTATIVE COUNCIL Elected annually by the students and governs student affairs for univ functions, social and athletic. Each coll exco. governs functions for its own coll.

STUDENTS' UNION Memorial union bldg, erected in memory of the students killed in second world war.

PUBLICATIONS Coll calendars (April), general Calendar (May), Convocation Program (May), President's Annual Report, Agric. Bulletins, Sheep (student newspaper), GreyStone (student yibook), The Green and White (alumni assocn, quarterly), books, articles, bulletins and res papers by members of staff.

Hists pub'd in jubilee yr: *Saskatchewan—The Making of a University* A S Morton and Carlyle King (Univ of Toronto Press, 1959). *The First Fifty* The University of Saskatchewan Carlyle King. (McClelland, 1959).

UNIVERSITY BOOKSTORE

THE YEAR 1960

PRINCIPAL BENEFICIARIES Scholps, \$79,746, res, \$1,427,164; other purposes, \$339,538.

MAJOR BUILDING DEVELOPMENTS Bldgs completed: office wing, W P Thompson biol bldg, office wing and theatre wing arts bldg.

RETIREMENTS W E Lovell (electr. engn), C F Patterson (hoiite).

RESIGNATIONS W F Blisset (Engl); J R Smith (geol); A R Dobkin (anat); J Lowenthal (physiol); M M Groenendyk-Huybers (anat); G W Selleck (plant ecol); R M Stingle (Engl); J G Ashwin (physiol); J A P Cameron (surg); D H Halliwell (asst librarian); M Noreen Mollard (dom. supt).

DEATH Bertha C Oxnier (du, women's work, extension).

HONORARY DEGREES DCL—W P Thompson, pres. cementus; N A M MacKenzie, pres. Bi Coll. LL.D.—S R Laycock, dean of educn emer. DSc—H C. Urey, scientist, former Nobel Prize winner.

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time*	External
Men	4077	2059	345
Women	1672	2914	857
Total	5749	4973	1202

* Includes summer sch. and evg classes

Distribution by Faculties: Agric, 272, arts & sci, 1824, comm, 331, educn, 911; engn, 1111, home econ, 71, law, 106, med, 127, nursing, 429, pharm, 202, phys. educn, 57, matric, 66, grad studies, 242. Total, 5749.

Included in the figures above are —

Postgraduate students, 242

New admissions, 2030

Students from other countries, 215 (Countries from which largest numbers came: India, 34, U.K., 32, W. Indies Fed., 30; U.S.A., 23, Germany, 12, Hong Kong, 12)

DIPLOMAS AWARDED (1959-60) Agric BSA, 28 Arts & sci BA, 290 Comm BComm, 57 Educn BED, 1266 Engn BE, 197 Home econ BSHEC, 10 Law LLB, 32 Med MD, 29 Nursing BSN, 29 Pharm BPh, 43 Grad MA, 13, MSc, 37, PhD, 9

DIPLOMAS AND CERTIFICATES AWARDED (1959-1960) Agric, 15, agric, 17, bus. admin, 32, pub. admin, 14, educn, 42, nursing (grad nurses), 57, assoc. in arts, 83, assoc. in music, 3, clin. lab. technique, 3, hosp. lab. technician, 20

UNIVERSITY OF SHERBROOKE

Founded 1954

Postal Address Cité Universitaire, Sherbrooke, P.Q., Canada

Cables and Telegrams University, Sherbrooke, P.Q.

Telephone · LO 9-7431

CHANCELLOR—H E. Mgr G. CABANA, Roman Catholic Archbishop of Sherbrooke

RECTOR—Mgr I. PINARD, BA *Montr*, BDC *Rome*

VICE-RECTOR—Mgr. M. O'BREADY, BA *Montr*, LèsL *Paris*

SECRETARY-GENERAL AND REGISTRAR—Rev. A. SIROIS, BA LèsL *Montr.*, BPéd

FACULTIES AND DEANS—ARTS—Canon R. MALTAIS, BA *Montr*, LPh *Rome*, COMMERCE—C-E BÉLANGER, BA LSC, CA; LAW—A. LEBLANC, QC, BA LLL, MEDICINE—G-L LAROUCHE, MD, FRCPCan, SCIENCE—J. LEMIEUX, BA BScA

TREASURER—Rev P. GILMORE, BA MSc *Montr*

LIBRARIAN—G. CHARTRAND, DiplBibl *Montr*

TEACHING STAFF

[†=Part-Time]

Biology

Véronneau, Rev. G., BA LScNat *Montr*

David, Br, BA BPéd LPéd *Montr*

Guindon, R, BSc *StrG Wms*

Joly, R, MA BTh LPh *Ott.*

La Rocque, G, BA BPéd *Montr*, LPéd

Paulhus, Rev E, BA *Montr*, DPéd *Lyons*

Taillefer, J, BA MA(Péd) PhD *Montr*

Thiffault, J, BA LPs *Montr*

O'Bready, Mgr M, BA *Montr*, LèsL *Paris*

Côté, Rev W, BA BPéd *Montr*, DSoc *Rome*

Métrais, Rev. R, BA

Allard, G, BA BPéd LPéd *Montr.*

Bernier, L, BA BPéd

Blouin, R, BA BPéd

Bourival, A, BA BPéd *Montr*

Deslandes, R, BA LPéd LèsL *Montr*

Dearosiers, A, BA LPéd *Montr.*

Doucet, P, E, BA BPéd

Faucher, J N, BA BPéd LPéd *Montr.*

Garneau, L, BA LPéd *Montr.*

Huot, P, BA LPéd *Montr*

Lalberté, R, BA LPéd *Montr*

Lambert, M., BA DPh *Rome*

Larivière, R, BA LPéd *Montr*

Leblanc, M, BA LPéd *Montr*

Lefebvre, R, LPéd MA *Montr*

Milot, A, BA BPéd *Montr*

Poulin, R, BA *Montr*

Proulx, J, BA LPéd *Montr.*

Richard, L., BA BPh *Laval*

Roberge, A, BA BPéd

Robitaille, G, MPéd *Wmoosks*

Roy, V., BA LèsL *Laval*

Chemistry

Lalancette, J M, DSc *Montr*

Brown, G. M., DèS *Laval*, DU *Montpellier*

Cliche, J M, BA BScA MSc *Montr.*

Lafamme, G, BA MSc *Montr.*

Marchessault, R H, PhD *McG*

Saint-Arnaud, R, BA BSc LSC *Montr.*

Commerce and Business Administration

Cousineau, R, BA LScC *Montr.*, MS(Com) *Col*, PhD *Ott*

Leroux, A., BA BScApp *Laval*, MA *Col*

Lancôt, J, MScC LSC *Montr*

Grandpré, R., MSc *Col*

Brault, R, BScC *Montr*, MScC *Laval*

Garnier, G., BA MBA *W Ont*

Isbester, A. F, BA MBA *W Ont*

Loranger, L., BA MScC *Laval*, LSC *Montr.*

Pichette, C, BA BScSoc MSc(Econ)

Provencher, L, BA LScC *Montr*

Education

Ruel, P. H, BA LPéd *Laval*

Bertrand, M, MA LèsL *Montr*

Galipeau, J, BA BPéd

Prof

Prof

Prof.

Prof

Prof

Prof, Principal

Prof

Prof

Prof

Prof

Prof

Prof

Prof

Prof

Prof

Prof

Prof

Prof

Prof

Prof

Prof

Prof

Prof

Prof

Prof

Prof

Prof

Prof

Prof

Prof

Engineering

Normandin, M, BScApp <i>Mont</i>	Prof
Champagne, J. P, BScA <i>McG</i>	Prof
Gauthier, L. M, BA BScA <i>Montr</i>	Prof
Aubé, G, MScA <i>Notre Dame</i>	Prof
Boisvert, R, BA BScA <i>McG</i>	Prof
Boudreau, L, BScA <i>Laval</i>	Prof
Brunelle, P. E, BScA <i>Montr</i>	Prof
Charron, J. M, BA MScA <i>M I T</i>	Prof
Chénier, R, MScA <i>Montr</i>	Prof
Denis, G, BA BScA <i>MS M I T</i>	Prof
Hamel, C, BA BScA <i>Montr</i>	Prof
Hubert, L, BA BScA <i>Montr</i>	Prof
Lafrenière, M. P, BScA <i>MSc M I T</i>	Prof
Leroux, A, BA BScA	Prof
Ponier, H, DT <i>I T R</i>	Prof
Veilleux, Rev A, BA BScA <i>Montr</i>	Prof

English

Cappon, C, MA PhD <i>Yale</i>	Prof
Sutherland, R., MA <i>McG</i> , PhD <i>Wayne</i>	Prof
Taillefer, J., BA MA(Péd) PhD <i>Montr</i>	Prof
Thibault, C, MA <i>Laval</i>	Prof

French Language and Literature, and Classics

Bazinnet, A, BPéd MA <i>Montr</i>	Prof
Bertrand, M, MA <i>LèsL Monts</i>	Prof
Béttanzos, M, BA <i>LèsL Madrid</i>	Prof
Blais, J, BA <i>LèsL Laval</i>	Prof
Brousseau, G, BA <i>Montr</i>	Prof
Collinge, P, BA <i>DL Liège</i>	Prof
Fléury, F d'A, MA <i>Camb, LèsL Paris</i>	Prof
Roux, P F., BA BPéd <i>LOSP LèsL Laval</i>	Prof

Geography and History

Cazalis, P, BA <i>DÉS Laval</i>	Prof
Levallée, J. G, BPh <i>Laval</i>	Prof
Roy, J. M, MA <i>McG</i> , DGéo <i>Grenoble</i>	Prof

Household Science

Sainte-Eugénie-de-la-Foi, S1, MSc <i>Laval</i>	Prof, Du
Sainte-Thérèse-de-la-Charité, S1, BA <i>Montr</i>	Prof

Law

Bédard, C, BA <i>LLL</i>	Prof
Barnard, E., BA <i>LLL LèsL Laval</i>	Prof
Boisvert, Judge E, BA <i>LLL Montr</i>	Prof
Boudreau, G, BA <i>LLL</i>	Prof
Charron, C, BA <i>LLB Montr</i>	Prof
Cliché, Judge I. P., BA <i>LLL Laval</i>	Prof

Comtois, P., BA BSA <i>MSC Laval</i>	Prof
Côté, L., QC, BA <i>LLB Monts</i>	Prof
Crépeau, R., QC, BA <i>LLL Montr</i>	Prof
Dandenaute, Rev B. BA	Prof
Delorme, M., QC, BA <i>LLL Montr</i>	Prof
Denis, A., BA <i>LLL Laval</i>	Prof
Deslandes, Rev A., BA <i>LTh Montr</i>	Prof
Desmarais, Judge G., BA <i>LLL Montr</i>	Prof
Fortin, C., BA <i>LLL Laval</i>	Prof
Fréchette, J. G., BA <i>LPh LLL</i>	Prof
Guy, M., BA <i>LLL Montr</i>	Prof
Labrecque, Rev. A., BA <i>LPh LTh Pontif Athen Angelicum</i>	Prof
Lagassé, J., BA <i>LLB Monts</i>	Prof
Lagassé, R., BA <i>LLL Monts</i>	Prof
Lancôt, J., MScC <i>LSC Monts</i>	Prof
Langlais, A., BA <i>LLL Laval</i>	Prof
Leblanc, A., QC, BA <i>LLL Montr</i>	Prof
Leblanc, C., BA <i>LLL Montr</i>	Prof
Lévesque, R., QC, BA <i>LLL Montr</i>	Prof
Melanson, J., BA <i>LLL</i>	Prof
Mitchell, Judge W., BA <i>BCL McG</i>	Prof
O'Bready, J., BA <i>LLL</i>	Prof
Panneton, J., BA <i>LLB Montr</i>	Prof
Péloquin, J. L., BA <i>LLL LSS Montr</i>	Prof
Rivard, A., BA <i>LLL Laval</i>	Prof
Rouillard, J., BA <i>LLL Montr</i>	Prof
Rousseau, A., QC, BA <i>LLL Laval</i>	Prof
Savard, G., BA <i>LLL Montr</i>	Prof
Simoneau, N., BA <i>LScC Monts</i>	Prof
Sylvester, G., BA <i>LLB Monts</i>	Prof
Veilleux, E., BCL <i>Oxon</i> , BA <i>LLL LPh</i>	Prof

Mathematics

Bazinnet, J., BA <i>MSc Monts</i>	Prof
Benoit, B., BA <i>MSc Monts</i>	Prof
Boucher, C., BSc <i>MA Monts</i>	Prof
Brisebois, M., MSc <i>Montr</i>	Prof
Colas, L., BPéd <i>BSc StG Wmt</i>	Prof
Constantin, J., MSc <i>Montr</i>	Prof
David, Br., BA <i>BPéd LPéd Monts</i>	Prof
Galipeau, J., BA <i>BSc BPéd</i>	Prof
Martin, J. P., LSc <i>BSc Monts</i>	Prof
Paul, B., BA <i>BSc Montr</i>	Prof

Philosophy

Goulet, J., BA <i>BPéd LPh Ott</i>	Prof, Principal
Mercier, P., MA <i>Laval</i>	Prof
Paradis, P. Y., BA <i>LPh Laval</i>	Prof

Physics

Georges, B., BA <i>BScA Laval</i>	Prof
Allard, J., BSc <i>StG Wms</i>	Prof
Richard, G., BSc <i>StG Wms</i>	Prof

ADMINISTRATIVE AND OTHER STAFF

DIRECTORS OF STUDIES	Fac of Law	Judge
J. C. Samson, BA <i>LLL Laval</i> ,	Fac of Scis	
M. Normandin, BScA <i>Montr</i> ,	Fac of Comm	
R. Cousineau, BA <i>LScC Montr</i> ,	MS(Comm)	
Col., PhD <i>Ott</i> ,	Inst of Pedagogy	P. H. Ruel,

BA <i>LPéd LPh Laval</i> ,	Teachers' Sch.	Mgr. M.
O'Bready, BA <i>Montr</i> ,	<i>LèsL Paris</i>	Coll. J.
Goulet, BA <i>Montr</i> ,	BPéd <i>LPh Laval</i>	Chaplain
of Students	Rev R. Marquis	Public Reins.
A. Vaillancourt		

CONSTITUENT COLLEGE

The COLLEGE UNIVERSITAIRE is the undergrad part of the fac of arts *entra muros*, and provides

the arts course leading to the BA degree in 4 yrs

AFFILIATED INSTITUTIONS

SECONDARY OR CLASSICAL STUDIES The following 12 colls. for boys and 3 colls for girls are affiliated to the univ. Each provides a 4-yr high sch. course followed by a 4-yr coll. or arts course, on the completion of which a student may qualify

by exam for the BA degree of the univ admitting him to professional studies in the univ. The teaching staff of these colls are not listed by name above

For boys —

COLLEGE D'ALZON, Bury (Compton), P.Q. (tel. 68) (founded 1955) Superior—Rev A Clermont, BA

COLLEGE DES CLARÉTAINS, Victoriaville, P.Q. (tel. PL 2-4679) (1955). Superior—Rev H Pujohas, BA.

COLLEGE NOTRE-DAME-DES-SERVITES, Ayer's Cliff (Stanstead), P.Q. (tel.: 153) (1945) Prior—Rev. M. Dégarie, BA.

ÉCOLE SECONDAIRE CLASSIQUE DE BROMPTONVILLE, Bromptonville, P.Q. (1957) Dir.—Br. Marc-Henri.

EXTERNAT CLASSIQUE D'ASBESTOS, Asbestos, P.Q. (tel. 452-1-3) (1956). Principal—Rev F. Labbé, BA *Montr.*, BPéd.

EXTERNAT CLASSIQUE DE MAGOG, Magog, P.Q. (tel. VI 3-3267) (1955) Principal—Rev. R. Côté, BA *Montr.*

EXTERNAT CLASSIQUE DE MÉGANTIC, Lac Mégantic, P.Q. (tel.: 4) (1955) Principal—Rev R. Pelletier, BA *Montr.*

EXTERNAT CLASSIQUE DE WINDSOR, Windsor Mills, P.Q. (1960) Principal—Rev L. Jacques, BA

MONT SACRÉ-CŒUR, Granby, P.Q. (tel. FR 2-7454) (1932) Dir.—Br. Alphonse, BA LPéd.

MONT STE-ANNE, Sherbrooke (tel. LO 2-4676) (1947). Superior—Rev. E. Andereggen, BA

PENSIONNAT STE-VICTOIRE, Victoriaville, P.Q. (1959) Dir.—Sr. Ste-Thérèse de la Charité, MA LPéd

SCOLASTICAT DES FF. DU SACRÉ-CŒUR, Arthabaska, P.Q. (tel.: 14) (1932). Dir.—Br. Louis-Thomas, BA BPh *Laval*.

SÉMINAIRE DE SHERBROOKE, C p 790, Sherbrooke (tel. LO 2-2126) (1875) Rector—Canon D. Lessard, BA

SÉMINAIRE DES VOCATIONS TARDIVES, Nicolet, P.Q. (1956) Superior—Rev C. Elie, MA L&L

SÉMINAIRE ST-PIERRE-X, 465 Bowen St., Sherbrooke (tel. LO 2-3900) (1957) Superior—Rev H. Roy, BA

For girls —

COLLEGE DU SACRÉ-CŒUR, 475 Park, Sherbrooke (tel. LO 9-2930) (1945) Directress—St. Marie-Ernestine, BA LPéd PhD

COLLEGE MARIE-DE-LA-PRÉSENTATION, Drummondville, P.Q. (tel.: 2-3744) (1955) Superior—Sr. St. Gabriel-Archange, BA

COUVENT MAPLEWOOD, Waterloo, P.Q. (tel. 73) (1882) Superior—Sr. Marie-Salvator, BA LPéd

SCHOOL OF DOMESTIC SCIENCE, 114, rue de la Cathédrale, Sherbrooke, P.Q. (tel. LO 9-5688) (1957) Directress—Sr. Ste-Eugénie-de-la-Foi, MSc *Laval* 4-yr course leading to BScDom

SCHOOLS OF HOUSEHOLD SCIENCE The following schools provide 2-yr post-matric. courses leading to a cert in household sci. Institut familial de Sutton, Institut familial du Christ-Roi, Nicolet, Institut familial et social de Sherbrooke, Institut familial Mater-Amabilis, Nicolet, Institut familial Notre-Dame-du-Foyer, Saint-Aimé-de-Richelieu, Institut familial Saint-Césaire, Rouville, Institut familial Saint-Joseph, St-Hyacinthe, Institut familial Sainte-Marie, Drummondville

GENERAL INFORMATION

The univ. was founded in 1954 by the Roman Catholic Archbishop of Sherbrooke, under an act of the legislature of the province of Quebec. It received its Roman Catholic charter in Nov. 1957.

CONSTITUTION The chancellor, who is always the R.C. archbishop of Sherbrooke, is hd of the univ. He administers through the executive a rector, 2 vice-rectors, a sec.-general, a treasurer

and 4 directors. These members are nominated by the chancellor and are responsible to him.

Each fac has its own bd responsible to the executive. The chancellor nominates the dean who is the hd of that council, the vice-dean and the sec. The other members are nominated by the executive.

Also responsible to the executive is the bd of trustees, whose object is to collect, own and administer, in trust for the univ, property and moneys.

INCOME (1959-60) Total income, \$666,008

FACULTIES AND DEANS *Arts*, Canon R Maltais, *comm*, C-E Bélanger, *law*, A Leblanc, *med*, G-L Larouche, *sci*, J Lermieux.

UNIVERSITY CAMPUS The univ has acquired 900 acres nr the city of Sherbrooke for the intended campus and the bldgs of the fac of scis, fac of comm, teachers' sch, coll. and admin. centre have already been erected there.

LIBRARY 49,000 vols.

ADMISSION. See Appendix III

DEGREE OF BACHELOR OF ARTS The *baccalauréat des arts* (BA) is awarded by the univ and may be gained in two ways.

(a) The complete course leading to it is provided in private *collèges classiques* affiliated to the univ (for a list, see p 328). The course is of 8 yrs' duration, in two 4-yr stages called *cours secondaires* and *cours universitaires*. The *licence* (taken from about 12 to 16 yrs of age) is comparable to the high school of English Canada and the latter to the general course in arts. Admission to the second stage is by passing the *matriculation* exam set by the univ (and thus obtaining the metric dipl of the univ) at the end of the 4th (final) yr. of the *cours secondaires* and the 11th yr of schooling.

(b) Alternatively, the 4 yrs of the *cours universitaires* may be taken at the *Collège Universitaire*, Sherbrooke (see p 328).

Students who reach a certain standard in both arts and sci in the *cours universitaires* are awarded the BA of the univ usually at about the age of 20. The award of the BA indicates that the student is ready to begin his professional studies in law, med or appl scis., or to enter on higher study in arts or sci.

OTHER DEGREES *Comm* BCom, 2 yrs after BA or 5 yrs after 11th grade or jr matric; MCom, 1 yr after BCom. *Educn* BPéd, 1 yr after BA or 4 yrs after 11th grade or jr matric; MPéd, 1 yr after BPéd, LPéd, 2 yrs after BPéd. *Engin* BScApp, 5 yrs after BA or 6 yrs after 12th grade. *Household sci* BScDom, 4 yrs after 11th grade or jr matric. *Law* LLB, 3 yrs after BA. *Sci* BSc, 3-4 yrs after BA or 4-5 yrs after 12th grade.

HONORARY DEGREES DU, LL.D, DSc, DSc (Econ), DPéd, DLett.

THE LANGUAGE OF INSTRUCTION is French

FEES. *Comm* 1st & 2nd yrs, \$350, 3rd, 4th & 5th yrs, \$400. *Engin* pre-engin, 1st & 2nd yrs, \$350; 3rd, 4th & 5th yrs, \$400. *Exper scis*, law, \$350. *Teachers' sch*, \$150. *Péd* \$350. *Collège Universitaire* \$325.

ACADEMIC YEAR Sept to May 2 terms of 15 wks each.

ADULT EDUCATION The fac of arts offers an extension course leading to the BA degree by evg courses (day-time attendance not essential).

VACATION COURSES Courses for practising teachers, leading to LPéd (No regular session attendance essential).

PUBLICATIONS *Annuaire Général*, *La Revue de l'Université de Sherbrooke*.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS *Bldg* completed: fac of comm, teachers' sch coll and admin centre. *Approaching completion* enlargement of fac. of sci.

HONORARY DEGREES DU—Mg J Caidin, founder of Young Catholic Worker Assoc. DL—J E L. Duquet, chairman, Univ Capital Campaign. DSc—G Dick, pres, Canadian Inst of Professl. Engineers.

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	1911	239
Women	404	115
Total	2315	354

M 2

Distribution by Faculties *Arts*, 1663, *comm*, 2475, *law*, 76, *sci*, 301. Total 2315

Included in the figures above are —

Postgraduate students, 47
Students from other countries, 3 (Country from which largest number came Haiti, 2)

DEGREES AWARDED (1959-60) *Arts* BA, 54, BPéd, 68, BScDom, 9. *Comm* BCom, 8, MCom, 10. *Law* LLB, 18. *Sci* BScApp, 25.

CANADA

SIR GEORGE WILLIAMS UNIVERSITY*

Founded 1929, incorporated 1948

Postal Address 1435 Drummond Street, Montreal 25, P.Q., Canada
Cables and Telegrams Sir George Williams University, Montreal, Quebec
Telephone VI 4-0131

CHANCELLOR—B W ROBERTS, OBE, Hon LLD

PRINCIPAL AND VICE-CHANCELLOR—H F HALL, BA *Eastern (Pa)*, Hon LLD *McM*, DD *Montreal Diocesan*

VICE-PRINCIPAL AND REGISTRAR—D B. CLARKE, MA *McG.*, BA

VICE-PRINCIPAL AND DEAN—R C RAE, BA *BSW Tor*, STh *Trin Coll Tor*

BURSAR—H G. WORRELL, BA

LIBRARIAN—LOUISA FAIR, MA *McG.*

TEACHING STAFF

[† = Part-Time]

Accountancy

Finnie, J G, BSc(Com), CA
Clarkson, L. G, BCom
Fallon, R H, BCom *McG*
Godel, E, BCom *McG*, BA
Horner, F. H., BCom *McG*
Ledoux, E R.
Mann, H, BCom
Mendelsohn, B. J., BCom
Reavely, S D, BBA *Penn*
Tinnmouth, E. W

Biology

Honeyman, J M., BA *McG.*, AM *Harv* Prof.
Peets, D L, BSc *McG* Assoc Prof
Black, W F, BSc *Mam*, PhD *McG*. Asst. Prof
Biard, Joan, MSc *McG* Lectr
Steele, D, BSc *W Ont*, MSc *McG* Lectr

Chemistry

Madras, S, PhD *McG.*, BSc Prof.
Ufford, J R., BEng PhD *McG*,
MAsc *Tor*. Assoc Prof
Verschinger, R H. C, PhD *McG*, BSc
Asst. Prof
Lenoir, J, BSc Lectr
Long, A D, BSc Lectr
Dick, J. G., BSc †Lectr.
Fisher, M. H., MSc *Lond* †Lectr.
George, Z M, MSc *Agra*, PhD *McG*. †Lectr.
Messiah, T, BSc †Lectr.

Classics

Widdows, P F, MA *Oxon*. Lectr

Commerce

Prof. Pugsley, P T R, BA BCom, CA, FCIS Prof.
†Lectr. Dickie, A, BCom *McG*, CA Asst. Prof
Burke, D W, CA Lectr.
†Lectr. Curnew, G. R., BCom, CA Lectr.
†Lectr. Franklin, M H, BA BCL *McG*. Lectr
†Lectr. Archer, J B., BA BSc †Lectr.
†Lectr. Breida, C. J., BCL *Oslo* †Lectr.
†Lectr. Brooke, C A †Lectr.
†Lectr. Burns, D W, BSc *Bishop's* †Lectr.
†Lectr. Byleveld, H. C, MEd *Rotterdam* †Lectr.
Chandler, H. W., BSc(Com) †Lectr.
Cunningham, G J †Lectr.
Davies, W H, BCom †Lectr.
Earle, V. H., MA *Gamb*. †Lectr.
Edge, W. A., BA *McG*. †Lectr.
Ferguson, J. R., BCom BA †Lectr.
Foley, T. P †Lectr.
Gill, H T, BA *Oxon* †Lectr.
Ham, A K, BA *McG* †Lectr.
Hassam, W. C. †Lectr.
Henneberry, Barbara, BSc MBA *McG* †Lectr.
Holmes, G. A, BCom *McG* †Lectr.
Innes, W D, BCom †Lectr.
Jansen, O V †Lectr.
Kendall, G C †Lectr.
Klimes, A. S., BSc †Lectr.
Linton, R. D, BCom *McG* †Lectr.
Maurice, G U., BA *Ott.*, LScSoc *Mont* †Lectr.
McCann, J A †Lectr.
Moore, J M †Lectr.
O'Brien, J E, BA BCL *McG* †Lectr.
Read, L M., BEng *McG.*, BA BSc †Lectr.
Read, T C †Lectr.
Robb, J. A., BA BCL *McG* †Lectr.

* Member of the Association of Universities of the British Commonwealth

Robertson, D N S, BA <i>Qu</i> , B <i>Pæd Tor</i>	†Lectr	Weyland, Henrietta, MA <i>Middlebury</i> , BA	†Lectr.
Smola, J., BCom	†Lectr	Wiath, Mrs Beatrice, BA	†Lectr
Sutton, G. D., MCom <i>Qu</i> .	†Lectr		
Thorsteinsson, P N., LLB <i>Br Col</i> .	†Lectr.	Fine Arts	
Threlfall, M. S.	†Lectr.	Clarke, D. B., MA <i>McG.</i> , BA	Prof
Trott, E J. A.	†Lectr	Sherman, Mrs Leah, MA <i>N Y</i> , BA	Asst Prof
		Pinsky, A	Lectr
Economics		Adams, K. D., BSc <i>LMua McG.</i>	†Lectr.
Leimer, A, MA <i>Tor.</i>	Prof	Allen, Mrs Thelma	†Lectr.
Armstrong, Mrs Muriel, BEd <i>Alta</i> ,		Billmeier, R	†Lectr.
MA <i>McG</i>	Asst Prof	Casserman, Ghitta	†Lectr
O'Brien, J., MA <i>McG</i>	Asst Prof	Opala, Mrs. Beatrice, BA	†Lectr.
Cohen, Mrs Dian, BA <i>Tor</i>	†Lectr	Springford, Norma	†Lectr
Halford, C R., BCom	†Lectr	Wheeler, O., BA <i>Bishop's</i>	†Lectr.
Lerner, G., BSc <i>M I T</i>	†Lectr		
Simcoe, L., BA BCL <i>McG.</i>	†Lectr	French	
Tarasofsky, A., BCom	†Lectr.	Whitelaw, J H, MA <i>Oxon.</i>	Assoc Prof
		Losic, S., L <i>esL Paris</i>	Lectr
Education		Irwin, Norah F, MA <i>McG</i>	†Lectr
Finley, E G., BA BCom <i>McG.</i> , EdD <i>Col</i>	Lectr.	Loiselle, Phyllis, BA	†Lectr
Johnstone, W D., BA	Lectr	Revai, Elizabeth, PhD <i>Bud</i>	†Lectr
Engineering		Geography	
Bordan, J, BEng <i>MSc McG</i>	Assoc Prof	Clinch, H. A., BA <i>Tor.</i> , MA <i>McG.</i>	Asst. Prof.
Goldman, C, MEng <i>McG</i>	Asst Prof		
Campanelli, S, BScA <i>Montr</i>	†Lectr	German	
Levine, S, MEng <i>McG.</i>	†Lectr	Fuerstenwald, Maria Anna, BA	†Lectr
McCuag, J A., BEng <i>MSc PhD McG</i>	†Lectr		
Tarandi, L. E	†Lectr	Hebrew	
English		History	
Compton, N., MA <i>McG.</i>	Assoc. Prof.	McCullough, E E, BA <i>Qu</i> ,	
Francis, Wynne P, BA	Asst. Prof	MA <i>McG</i>	Assoc. Prof.
Lamb, S S, BA <i>McG</i>	Asst Prof	Ayre, D. E, BA	Lectr
Maclean, Mrs Lorna, BA <i>Tor.</i> ,		Nish, C., MA	Lectr
MA <i>Smith</i>	Asst. Prof		
Tobias, Rytza, BA	Asst. Prof.	Humanities	
Belkin, Mrs Roslyn, BA	Lectr.	Thompson, C W, MA <i>Oxon</i>	Emer Prof
Arnold, L., BA	†Lectr.	Wasserman, Mrs. Rachel, MA <i>McG</i> &	Prof.
Arthurs, A. D. G, MA <i>Acad</i> ,		<i>Radcliffe</i> , PhD <i>Corn.</i>	
B <i>Pæd Tor</i>	†Lectr.		
Briggs, Mrs. Ruth, BA <i>Sask.</i>	†Lectr.	Journalism	
Brocklehurst, Mrs Mildred, BA <i>McG.</i>	†Lectr	Macfarlane, D. B., MA <i>Montr</i> , BA	†Lectr
Candib, A, BA	†Lectr		
Cochrane, E. G, BA	†Lectr.	Mathematics	
Etheridge, K. C, BA	†Lectr	Smith, N. E, BA <i>New Br.</i> , PhD <i>McG</i>	Prof
Fancott, E.	†Lectr	Sparling, C. C, BA <i>Qu.</i>	Assoc Prof
Flood, J.	†Lectr.	Vowles, Edna, BSc <i>Brist.</i>	Assoc. Prof
Jonas, R. C., BSc <i>Springfield</i> , BA	†Lectr.	Zweig, J P., MA <i>McG</i> , BSc <i>BSc(Com)</i>	Assoc Prof.
Lamb, Mrs. Sylvia, BA	†Lectr.	Harrow, M., BSc <i>McG.</i>	Asst Prof.
Layton, I P, BSc MA <i>McG.</i>	†Lectr.	Turgeon, J, MA PhD <i>Col</i>	Lectr
MacDonald, R. J, BA <i>Acad.</i> , MA <i>Tor</i>	†Lectr.	Bedford, F. W, BA <i>Loyola (Montr)</i> , BSc	†Lectr.
Magee, Eleanor, BLS <i>McG</i> , BA BSc	†Lectr.	Boswall, Mrs. Mary, BSc <i>Dal</i>	†Lectr.
Miller, Mrs. Audrey, MA <i>Tor.</i>	†Lectr.	Deathe, E W., BA <i>Dal.</i>	†Lectr
Mitchell, C., BA <i>McG.</i>	†Lectr.	Dingwall, R. A, BSc <i>Alta</i> , MSc <i>Ill.</i>	†Lectr
Plaskett, Mrs. Ida, BA <i>McG</i>	†Lectr.	Pidd, K., BSc <i>Hull</i>	†Lectr
Ram, A, BA	†Lectr	Schwartz, H. H, BEng <i>McG.</i> ,	†Lectr.
Say, Mrs. Shirley	†Lectr	SM <i>M I.T.</i>	
Smith, Ruth, BA <i>Qu</i>	†Lectr		
Stokes, Mrs Anne, BA	†Lectr		
Thacher, Mrs Willa, BA <i>Manit.</i>	†Lectr.		
Walker, M. G, BA <i>McG.</i>	†Lectr.		

Smith, L. J., BSc
Stallard, S. E., BSc *Mt All*, *MA New Br*

†Lectr Schwartz, D., BA *Qu*, BCL *McG*,
LLM *Hav*

| Lectr.

Storr, E., BA *Oxon*.

†Lectr.
†Lectr

Natural Sciences

Hall, H. F., BA *Eastern (Pa)*, Hon LLD
McM, DD *Montreal Diocesan*

†Asst Prof

Paterson, E. R., BA *McG*

†Lectr.

Topham, W. T. T., BSc

†Lectr.

Philosophy

Fraser, W. R., BA *Mt All*, *MA Dal*.

Prof.

Angel, R. B., BA *McG*.

Lectr

Physics

Raudorf, W. R., PhD *Vienna*

Prof

Petolas, J. P., BSc

Assoc Prof

Lange, L. P., MSc *Birm*, BSc

Lectr.

Tomas, F., BSc

Custator

Political Science

Quinn, H. F., MA *McG*, PhD *Col*, BA

Prof

Fraser, R. A., BA

Lectr

Angell, H., MA *McG*, BA

†Lectr

Frankel, S., MA *McG*.

†Lectr.

Hecht, T. O., BA

†Lectr.

Plunkett, T., MA *McG*, BA

†Lectr

Psychology

Bridges, J. W., BA *McG*, AM PhD *Hav*. P of

Cale, J., MA *Mont*, BA

†Lectr

Irvine, Mrs Lucille, MA *McG*

†Lectr.

Mahoney, G. M., MSc PhD *McG*, BSc

†Lectr

Mahut, Helen, PhD *McG*, BSc

†Lectr.

Religious Knowledge

Sinyard, Rev B. G., BA *Bishop's*, MA *Tor*,

BD *Trin Coll Tor*, STM *U.T.S (N Y)*

Lectr

Sociology

Potter, H. H., MA *McG*, BA

Assoc Prof

Insley, D., BPEd *McG*

Lectr

Rae, R. C., BA BSW *Tor*, STh *Trin Coll Tor*

Lectr

Sproule, J. A., MPaSc *McG*, BA

Lectr

Dimock, H. G., BA *Belot*, EdD *Col*

†Lectr.

Hopkins, J. B., BA *Alta*, MSW *Br Col*

†Lectr

Peritz, Bernice, BA *Tor*

†Lectr.

Spanish

Stegen, G. F., BA

†Lectr

Toscano, Jeannie, BA *McG*, MA *Ill*

†Lectr.

ADMINISTRATIVE AND OTHER STAFF

Sec of the Fac and Dir of Exams R. A.
Fraser, BA Dir of Admissions D. E. Ayre,
BA Asst to Registrar J. R. McBride, BA
Asst Deans D. L. Peets, BSc *McG*, J. W.
O'Brien, MA Asst Dean, Student Affairs M.
Flynn, BCom Student Counsellor J. A.
Sproule, MPaSc BA *McG* Asst Student Coun-
sellor Jean P. Harder, MA Supervisor of

Records Mona Osborne Supervisor of Ac-
counts: F. Sauer Admin Asst to Principal
E. G. Finley, BCom MA Dir of Physical
Educn D. Insley, BPEd *McG* Admin Asst,
Evng Division W. D. Johnstone, BA Admin
Asst., Day Div R. Gates, BA. Alumni Execu-
tive Dir and Student Aid Officer J. Ferguson,
BA

GENERAL INFORMATION

Sir George Williams Univ (named after the founder of the Y M C A) has developed from the formal educnl. work of the Montreal Y M C A. inaugurated in 1873. First classes at univ level were offered in 1929 in the evg. division, and day courses in arts, sci and comm were inaugurated in 1932. The members of the first class graduated in 1936 and by 1960 some 7669 degrees had been presented. Throughout this period the coll. had been conducted under the terms of the charter of the Montreal Y M C A. (consolidation June 1888). In March 1948, however, the univ was granted a specific charter by the provincial legislature, establishing it a body corporate and politic, for the purpose of conducting a coll. or univ. in the province of Quebec. Its historic connexion with the Y M C A is preserved by by-law.

Similar courses are offered and the same standards are maintained in both day and evg.

divisions, although evg students are required to attend for a longer period to complete degree requirements.

CONSTITUTION The univ charter is held by the corporation of Sir George Williams Univ, which by its first by-law is the metropolitan bd of the Young Men's Christian Asscn of Montreal. Ultimate financial control of the univ. is exercised by the corporation. Appts and policy and actual financial management are the responsibility of the bd of governors, whose members are elected annually by the bd itself. The academic policy and programme are the responsibility of the fac. council, which is made up of all full-time profs. and certain *ex-officio* members. Faculty council is responsible to the bd. of governors.

INCOME (1960) \$2,010,999 (student fees, 80.4 per cent, provincial govt grant, 14.1 per cent;

Y.M.C.A. subsidy, 2 7 per cent, auxiliary enterprises and other sources, 2 8 per cent)

FACULTIES The faculties of arts, sci and comm are closely integrated under the general supervision of the dean of the univ. To ensure a broad general basis to the educn'l programme of each fac, the work of the univ as a whole is further organized in four divisions, each supervised by a sr. prof: natural sci div.—Sr Prof S Madras, soc sci div.—Sr Prof J W Bridges, humanities div.—Sr Prof W R Fraser, comm div.—Sr Prof P T R Pugsley

LOCATION The univ is housed in a large bldg in central Montreal in the Y M C A bldg, certain of whose facilities are used by the students

LIBRARY 43,250 vols

LABORATORIES Biol., chem, electricity, phys Four art studios available for work in fine & appl arts

ADMISSION See Appendix III

PARTIAL STUDENTS Non-matriculated students are admitted to evg courses for partial programmes, provided that their background is such that they may follow the courses desired

DEGREES 4 yrs from jr matric—BA, BSc, BCom (longer in the evg courses) No hon degrees or higher degrees are awarded Attendance at lectures is required for all programmes

DIPLOMAS 2 yrs from jr matric (longer in evg. div.)—AssocArts, AssocSc, AssocCom 4-yr course for dipl in association sci. for professional Y M C A secretaryship

CERTIFICATE 2 yrs—engin

FEES Annually for tuition—day div \$300, plus \$25 lab. fee for each course involving lab. work, \$15 student soc fee Evg div \$50 for each 8-month subject, \$25 for each 4-month

subject, plus \$25 lab fee for each course involving lab work

ACADEMIC YEAR Sept to May 2 terms of 15 wks each

SUMMER SESSION offered each yr in the evg div only, from May 23 to Aug 25, credits for which are given towards degrees of BA, BSc and BCom

PLACEMENT SERVICE for students and grads offered by student guidance office in conjunction with natl employment service

ASSOCIATION OF ALUMNI Grads of the univ belong to the Assocn of Alumni of Sir George Williams Univ

RESIDENCE Men students may reside in the Y M C A dormitories which occupy space in one of the bldgs used by the univ Residential accomm for women students is available in the Montreal Y W C A, within walking distance of the univ

MILITARY TRAINING Univ contingents prepare students for commissions in Canadian army (reserve), Canadian navy (reserve) and R C A F (radio and communications (reserve))

STUDENTS' SOCIETIES 2 self-governing socs Students' Undergrad Soc (day students), and Evening Students' Assocn (evg. students)

STUDENT ATHLETIC FACILITIES Gymnasium and swimming pool

PUBLICATIONS *Calendar* (July), *The Georgian* (students' weekly newspaper), *The Garnet* (graduating class annual), *The Post-Grad* (quarterly of Alumni Assocn)

UNIVERSITY BOOKSHOP The univ operates a bookshop through which students may obtain all required text-books and supplies

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	1403	3013
Women	362	1025
Total	1765	4038

Distribution by Faculties, etc Arts, 2308, comm., 1787; engin, 123, sci, 1585, partial students, 1406 Total. 7209

Included in the figures above are —

Postgraduate students, nil

New admissions, 2435

Students from other countries, 175 (Countries from which largest numbers came W India, Fed, 86, Hong Kong, 44)

DEGREES AWARDED (1959-60) BA, 234, BSc, 101, BCom, 135

DIPLOMAS AWARDED (1959-60) AssocArts, 7, AssocSc, 3, AssocCom, 4, dipl in association sci, 4, engin cert, 15

UNIVERSITY OF TORONTO*

Founded 1827

with which are federated

UNIVERSITY OF ST. MICHAEL'S COLLEGE, TORONTO,
UNIVERSITY OF TRINITY COLLEGE, TORONTO,
VICTORIA UNIVERSITY, TORONTO, and
KNOX, WYCLIFFE and EMMANUEL COLLEGES

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Montr, MA, FRSCan
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REGISTRAR—R. ROSS, MBE, MA *St. And*
COMPTROLLER—G L. COURT, DFC, MCom
SECRETARY TO THE BOARD OF GOVERNORS—J. F. BROOK
SUPERINTENDENT OF BUILDINGS AND GROUNDS—F. J. HASTIE, BSc *Alta*.
CHIEF ACCOUNTANT—D. J. REID
DIRECTOR OF UNIVERSITY EXTENSION—D C WILLIAMS, BA *Manit.*, MA PhD

TEACHING STAFF

[† = Part-Time]

Note.—In the following list the members of the staff in the Faculty of Arts and Science who are members of staffs of Colleges are indicated thus *

University College (C)
Victoria College (V)

Trinity College (T)
St Michael's College (M)

Accounting, see Pol. Econ.

Archæology, see Art and Archæol

Anthropology

McIlwraith, T. F., MA *Camb.*, FRSCan Prof., Hd. of Dept
Emerson, J. N., PhD *Chic*, MA Assoc. Prof
Voget, F W., BA *Oregon*, PhD *Yale* Assoc. Prof.
Dailey, R. C., MA PhD Asst Prof
Van Stone, J. W., BA *Oberlin*, MA Asst Prof.
PhD *Penn.* Lectr. Prof.
Cohen, R., MSc *Wis.*, PhD BA Lectr.
Ellis, D., BA *McG.* & *Camb.*, PhD *McG.*, Lectr.
MA *Yale* & *Tor*
2 Instrs.

Architecture, School of

Howarth, T., PhD *Glas*, FRIBA Prof., Dir.
Arthur, E R., MA BArch *Liv*, Hon
LLD *Manit*, FRIBA Prof.
Carswell, W E., BArch Prof.
Raymore, W G., BArch Prof.
Dakin, A. J., BA *S A*
Prof., Hd, Div of Town & Regional
Planning
Barker, R. J. K., BArch Assoc. Prof
Murray, J. A., BArch Assoc. Prof
Acland, J H., BArch *Syr*, AM *Harv* Assoc. Prof
Adamson, A P C., MA *Camb.* Assoc. Prof

* Member of the Association of Universities of the British Commonwealth

Kent, S. R., BArch
 Robb, G. A., BArch
 McBain, W. J., BArch
 Grooms, R. H., MSc Wis.
 Hall, J. A.
 Hugo-Brunt, M., BArch *Cape T.*,
 MCD *Liv*, MArch *Corn*
 Elkcn, A., DipEngArch *Munch & Helsinki*
 Goulding, W. S., BArch *Harv.*, BA
 Lee, D. H., BArch *McG*, MSc *Ill*
 Watts, F. H.
 Grossman, I., BArch
 Halfhide, E. W., BArch *McG*.

Art and Archaeology

Brieger, P. H., PhD *Bies*, FSA
 Prof., Hd of Dept.
 Graham, J. W., MA *Acad*, PhD *Johns H.* Prof.
 Brett, G., MC, MA *Oxon*. Assoc Prof
 Vickers, G. S., BA *McM.*, AM *Harv* Assoc Prof
 Morey, C. T., BA *Williams*, MFA *Georgia*
 Winter, F. E., BA *McG*, PhD
 Brett, Mrs Katharine B. Sp. Lectr
 Needler, Winifred E., BA Sp. Lectr.
 Spendlove, F. St. G., DipArchit *Lond* Sp. Lectr.
 Brooks, H. A., BA *Dartmouth*, MA *Yale*,
 PhD *Northwestern* Lectr
 Vitahum, W. A., PhD *Munch* Lectr
 Reader, 1 Assl

Astronomy

Heard, J. F., BA *W Ont*, MA *McG*,
 PhD *McG & Lond*, FRSCan
 Prof., Hd of Dept., Dir. of Observatory
 MacRae, D. A., AM PhD *Harv*, BA Prof
 Hogg, Mrs. Helen B. S., AB DSc *Mt Holyoke*,
 AM PhD *Radcliffe*, FRSCan Prof
 Northcott, Ruth J., MA Asst. Prof
 Van den Bergh, S., AB *Prim*, MSc *Ohio*,
 DrRerNat *Gott.* Asst. Prof.
 Fernie, J. D. Asst. Prof
 Wright, K. O., PhD *Mich* Sp. Lectr

Biology, see Zool.**Botany**

Badenhuizen, N. P., DSc *Amst*
 Prof., Chairman of Dept
 Bailey, D. L., BA *Qu.*, MS PhD *Mun*,
 FRSCan (Plant Pathol.) Prof.
 Bannan, M. W., BA PhD, FRSCan Prof.
 Forward, Dorothy F., PhD *Camb & Tor*,
 MA Assoc Prof
 Bidwell, R. G. S., BSc *Dal.*, PhD *Qu* Assoc Prof
 Cain, R. F., MA PhD Assoc Prof.
 Soper, J. H., MA *McM*, PhD *Harv*
 Assoc Prof
 Rothfels, K. H., BA PhD Assoc Prof
 Morgan-Jones, J. F., MSc *Manit* Asst. Prof
 Bray, J. R., BA *Ill*, PhD *Wisc* Asst. Prof
 Gorham, E., MSc *Dal*, PhD *Lond*. Asst. Prof.
 6 Asss.

Business, School of

Main, O. W., BA *McM*, PhD Prof., Dir.
 Graham, T. C., MBE, BAsc Prof.
 Coutts, W. B., BA Prof.
 Pregrave, R., BAsc Prof.
 Sawatsky, J. C., BA *Manit.*, MA PhD
 Assoc Prof
 Thomson, W. S., MA *Camb*, MCom Assoc Prof.
 Toombs, F. C., PhD *Chic* Assoc Prof
 Moyer, M. S., PhD *Col*, MCom Asst. Prof
 Poapst, J. V., MCom *McG* Asst. Prof
 Sarjeant, J. S., BAsc MCom Asst. Prof
 Vosbaugh, R. E., BS *Miami*, MBA *Indiana*
 Asst. Prof
 Crispo, J. H. G. Asst. Prof
 Laskin, B., LL.M. *Harv*, MA LLB Asst. Prof
 Lane, W., OBE, BSc *Mt All*, MA Sp. Lectr.
 MEd *Alta.*, PhD *Lond*

Chemistry, see also Food Chem., and Applied Science and Engineering, below

LeRoy, D. J., MA PhD, FRSCan
 Prof., Hd of Dept
 Gordon, A. R., OBE, MA PhD, FRSCan Prof.
 Wight, G. F., MBE, BSc
 PhD *Iowa State Agric* Prof.
 Beamish, F. E., MA *McM*, FRSCan Prof.
 Yates, P., BSc *Lond*, MSc *Dal*, PhD *Yale* Prof
 Wetmore, F. E. W., BSc *New Br*, MA
 PhD, FRSCan Prof
 Louman, F. R., BEM, MA PhD Assoc Prof
 Lister, M. W., MA DPhil *Oxon* Assoc Prof
 Rae, J. J., BA *McM*, MA PhD, FCIC
 Assoc Prof
 Allen, A. D., BSc PhD *Lond* Assoc Prof.
 Brook, A. G., BA PhD Assoc Prof
 Polyani, J. C., MSc PhD *Manit.* Assoc Prof
 Dockins, J. M. Assoc Prof
 Page, J. A., MSc *McM*, PhD *Harv*. Asst. Prof
 Hiatt, R., BA *Wooster*, MA PhD *Harv*.
 Asst. Prof.
 Dignam, M. J., BA PhD Asst. Prof.
 Danyluk, S. S., MSc *Manit*,
 PhD *Rensselaer* Asst. Prof
 Harrison, A. G., MSc *W Ont*, PhD *McM*
 Asst. Prof
 McLean, S., BSc *Glas*, PhD *Corn* Asst. Prof
 Valteau, J. P. Asst. Prof
 Robinson, E. R. Asst. Prof
 32 Demrs, 5 Res. Asss, 1 Inst

Child Study, Institute of

Bernhardt, K. S., PhD *Chic*, MA Dir of Inst
 Millichamp, Dorothy A., MA
 Assoc Prof, Asst Dir
 Northway, Mary L., MA PhD Asst. Prof
 Grapko, M. F., BA *Manit*, MA PhD Asst. Prof.
 Fletcher, Margaret I. Supervisor
 21 Instrs, 1 Res. Asst, 5 Res. Assocs

Chinese Studies, see East Asiatic Studies

Classics

- Woodbury, L. E., BA *Manit*, AM
PhD *Harv.*, Prof, Hd. of Dept. (C)
Bagnani, G., DLitt *Rome*, FRSCan
(Classics) Prof (C)
Wallace, W. P., PhD *Johns H.*,
BA *Oxon* & *Tor* Prof (C)
Heichelheim, F. M., PhD *Gessen*
Assoc Prof (C)
Rudd, W J N, MA PhD *Dub* Asst Prof (C)
Thomson, D F S, MA *Oxon*. Asst Prof (C)
Shepherd, R M H, MA *Camb*. Asst Prof (C)
Norwood, Mrs. Frances M. H., PhD *Wis*,
MA Asst. Prof. (C)
Rist, J M., BA *Camb* Lectr (C)
Robson, D O, MA PhD (Latin) Prof (V)
Keyes, G. L., PhD *Prin.*, MA Assoc Prof (V)
Grant, J R., AM PhD *Harv*, BA
Assoc Prof (V)
de Montmollin, D. P., Dèsl *Neuchâtel*
(Greek) Asst Prof. (V)
Sparshott, F E, MA *Oxon* Lectr. (V)
Grube, G. M A, MA *Camb*, FRSCan
Prof, Hd of Dept (T)
Conacher, D. J., MA *Qu.*, PhD *Chc*
Assoc Prof (T)
White, Mary E, MA *Oxon* & *Qu* Assoc Prof. (T)
Barp, A J, MA *Cinc*, MLitt *Camb*, BA
Assoc Prof (T)
Cole, J W, MA *Oxon* Asst Prof (T)
Dalzell, A, MA BLitt *Dub* Asst Prof (T)
Philip, J A, DLitt *Florence*, BA Asst Prof (T)
Kennedy, Rev V. L., Lèsl *Stras*,
ArchD *Rome*, MA Prof. (M)
O'Donnell, Rev J R, MA PhD Prof (M)
Wey, Rev. J C., MA Prof (M)
St. John, Sister Mary, MA Assoc Prof. (M)
St. Stanislaus, Sister Mary, MA Assoc. Prof (M)
Sheridan, Rev J, BA *NUI*, MA PhD
Assoc Prof, Hd (M)
Blandina, Sister Mary, MA Asst Prof (M)
McNeil, Rev. D. J J, MA Asst. Prof (M)
Stella Marie, Sister M., PhD *Corn*, MA
Lectr (M)
Robertson, H G, PhD *Chc*, BA
(Greek) Prof, Chairman of Dept. (V)
1 Sp Lectr. (C), 1 Instr (M), 1 Teaching
Fellow

Dentistry, see below

East Asiatic Studies

- Dobson, W A C. H., MA *Oxon*.
Prof, Hd. of Dept
Walmsley, L. C., BA DPæd Assoc Prof
Shih, C C, BA *Peking*, BD *Harford*, MA
PhD *Chc*. Asst Prof
Smith, R. M., MA *St. And.* & *Oxon*. Asst. Prof
2 Instrs.

Economics, see Pol. Econ.

Education, see Ontario Coll of
Education, p 348

Embryology, see Zool.

Engineering, see Applied Science and Engin-
eering, below

English

- Woodhouse, A. S P, AM *Harv*, Hon.
DLitt *Aead* & *Manit*, Hon LLD *Br*
Col, BA, FRSCan Prof, Hd of Dept. (C)
Endicott, N J, BLitt *Oxon*, BA *Oxon* &
Tor. Prof (C)
MacGillivray, J R, PhD *Harv*, MA,
FRSCan Prof (C)
Priestley, F E L, MA *Alta*, PhD, FRSCan,
FRSL Prof. (C)
Bessinger, J. B., AM PhD *Harv*. Assoc Prof. (C)
Harris, R S, MA PhD *Mich* Assoc Prof (C)
Watt, F. W, BA *Br. Col*, BLitt MA *Oxon*,
PhD Asst Prof (C)
McPherson, H A, BA *Manit*, MA *W Ont*,
PhD Asst Prof (C)
Carroll, J J, BA *Ill*, MA *Oxon*,
PhD *Harv* Lectr (C)
Leyerle, J F, BA *Oxon* Lectr (C)
MacCallum, H R, MA PhD Lectr (C)
Pritchard, A, BA *Br Col*, PhD Lectr (C)
Woolf, R S, MA *Oxon*, PhD Lectr (C)
Frye, H N, MA *Oxon*, LLD *Car*,
BA, FRSCan
Prof, Principal of Victoria Univ. (V)
MacLean, K, BA PhD *Yale*
Prof, Chairman (V)
Coburn, Kathleen H, BLitt *Oxon*, MA,
FRSL, FRSCan Prof (V)
Love, C C, MA *Camb*, PhD Assoc Prof (V)
MacLure, M., MA *Aead*, PhD Assoc Prof (V)
Jenking, Ruth I, MA Assoc Prof (V)
Hoeniger, F D., PhD *Lond*, MA Asst Prof. (V)
Knight, D. J, PhD *Yale*, MA Asst. Prof. (V)
Kee, K O, MA PhD Asst Prof (V)
Robson, J M, MA PhD Asst. Prof (V)
Macpherson, Jay, BA *Car*, BLS *McG.*,
MA Lectr (V)
Child, P A, AM PhD *Harv*, BA *Camb* &
Tor Prof (T)
Roper, G H, MA PhD *Chc*.
Prof, Hd of Dept (T)
Schneider, R M K, MA PhD Asst Prof (T)
Wilson, M T, PhD *Col*, MA Asst Prof. (T)
Falle, G G, MA *McG.*, PhD *Wis* Asst Prof. (T)
Buckman, Mrs P, AB *Wash*, MA Lectr (T)
Pettigrew, J S, MA *Tor* & *Oxon*. Lectr (T)
Shook, Very Rev L K, AM PhD *Harv*,
MA Prof, Hd of Dept (M)
McLuhan, H M., MA *Manit* & *Camb*,
PhD *Camb* Prof (M)
Mallon, Rev H V., MA *Mich*, BA Prof. (M)
Madden, Very Rev J F, PhD *Harv*,
MA Asst Prof (M)
Theall, D F., AB *Yale*, MA PhD Asst Prof (M)
Dominica, Sister Mary, MA Asst Prof. (M)
Marion, Sister Mary, PhD *Chc*, MA
Asst Prof (M)
St Francis, Sister Mary, MA Asst. Prof (M)

Dorsey, Rev. J., MA C U A, BA Asst Prof (M)
 Geraldine, Sister Mary, MA PhD
 Asst Prof (M)
 Hennessey, Rev. B., MA Lectr (M)
 Leland, Rev. C., BA *Obelisk*, MA Oaon
 Lectr (M)
 18 Teaching Fellows (C) and 7 (M), 1 Instia
 (C) and 2 (T), 2 Fellows (V)

Fine Art, see Art and Aichzol

Food Chemistry

Smith, M. Doreen, MA PhD Prof
 Walker, E. Isabel, MA Asst Prof
 Butterfield, Miss Jean R., MA Asst Prof
 Freeman, Miss Ellen B., BA *N Dakota*,
 MA Col, PhD *Minn.* Lectr
 Scott, Miss Joan, MA Lectr

Forestry

Sisam, J. W. B., BScF DSc *New Br*,
 MF *Yale* Prof
 Hossie, R. C., BScF MA Prof
 Farrar, J. L., PhD MF *Yale*, BScF Prof
 Buckingham, F. M., BScF *New Br*,
 MF *Harv* Assoc. Prof
 Love, D. V., BScF *New Br*, MF *Mich*
 Assoc. Prof
 Michell, A. S., CD, MF *Duke*, BScF Assoc. Prof
 Hall, A. D., BScF Asst Prof
 Jorgensen, E., MF *Copenhagen* Asst Prof
 Kissick, N. L., MF *Yale*, BScF Asst Prof
 Armonson, K. A., DipFor *Oxon*, BScF Asst Prof

French

Rouillard, C. D., AB *Bowdon*, AM
 PhD *Harv*, FRSCan
 Prof, Hd of Dept (C)
 Finch, R. D. C., BA Prof (C)
 Graham, V. E., BA *Alta*, MA *Oaon*,
 PhD *Col* Prof (C)
 Joliat, E. A., BA *McG*, DU*Paris* Prof (C)
 Hayne, D. M., MA PhD *Ott*, BA
 Assoc. Prof (C)
 Parsons, C. R., MA *McG*, PhD Assoc. Prof (C)
 Flinn, J., DU*Paris*, MA Asst Prof (C)
 Sanouillet, M., L&L DipId'ÉtSup *Paris*
 Asst Prof (C)
 Walker, J. A., MA PhD Asst Prof (C)
 Balthazard, Isabelle G., MA Lectr (C)
 Curtis, A. R., MA *Wales* Lectr (C)
 Mathews, P., AM *Harv*, BA Lectr (C)
 MacDonald, Marguerite D., DU*Paris* Lectr (C)
 Trethewey, W. H., PhD *Chic*, MA
 Prof, Chairman of Dept (V)
 Wood, J. S., BA *Lond*, MA *Birm*,
 DU*Paris* Prof (V)
 Hare, F. A., MA Prof (V)
 Ruée, Laure, DipId'ÉtSup *Neuchâtel*,
 MA PhD Prof (V)
 Cook, Alta L., BA Assoc. Prof (V)
 Ross, A. C. M., MA *McM*, PhD
 Assoc. Prof (V)

Jeanes, R. W., DU*Paris*, BA Asst Prof (V)
 Rathe, C. E., MA Asst Prof (V)
 de Montmolin, D. P., D&L *Neuchâtel* Lectr (V)
 Rogers, W. S., AM *Col*, BA
 Prof, Hd of Dept (T)
 Kennett, W. T. E., BA *By Col*, MA
 PhD *Prin* Assoc. Prof (T)
 Ruddock, W. J., MA *Qu*, BA Asst Prof (T)
 Bondy, Rev. L. J., MA *Chic*, PhD *Johns H*,
 D&L *Montr*, Hon LLD *Laval* & *Ott*,
 BA Prof, Hd of Dept (M)
 Klem, Rev. L. J., PhD *Laval*, MA Prof (M)
 Lajeunesse, Rev. E. J., MA Assoc. Prof (M)
 Olga, Sister Mary, PhD *Laval*, MA
 Assoc. Prof (M)
 Marie-Thérèse, Sister, MA PhD Asst Prof (M)
 Donovan, Rev. R. B., PhD *Yale*, MA
 Asst Prof (M)
 Rice, Theresa, MA *Adel*, PhD Asst Prof (M)
 St-Magdalen, Sister Mary, MA Asst Prof (M)
 Coimne, Sister Mary, PhD *Laval*, MA
 Asst Prof (M)
 1 Teaching Fellow (C), 3 Instia (C) and 2
 (V), 1 Oral Instia (V), 1 Fellow (V)
 and 1 (C)

Genetics, see Zool.

Geography

Putnam, D. F., BSA PhD Prof, Hd. of Dept
 Spelt, J., MA *Wn*, PhD *Uncht* Assoc. Prof
 Keit, D. P., BA *By Col*, MA PhD Assoc. Prof
 Dean, W. G., MA PhD *McG* Asst Prof
 Watts, F. B., MA *Syr*, BA Asst Prof.
 Potvin, G., BA *Sacred Heart* (N B),
 L&L *Laval* Lectr
 Tayyeb, A., MA *Alig* Lectr
 Eskine, D. S., BSc *Acad*, MA Lectr

Geological Sciences

Langford, G. B., PhD *Corn*, BASC, FRSCan
 (Mining Geol.) Prof, Hd of Dept
 Firtz, Madeline A., BA *McG*, MA PhD,
 FRSCan (Palaeontol.) Prof
 Moorhouse, W. W., PhD *Col*, MA,
 FRSCan (Geol.) Prof
 Currie, J. B., BA *McM*, MA PhD Assoc. Prof
 Deane, R. E., BASC *Br Col*, PhD Assoc. Prof
 Smith, F. G., MSc *Manit*, PhD Assoc. Prof
 Nuffield, E. W., BA *Br Col*, PhD Assoc. Prof
 Anderson, D. V., MA PhD Assoc. Prof
 Beales, F. W., MA *Camb*, PhD Assoc. Prof
 Pesch, P. A., BScEd MA PhD Asst Prof
 Gorman, D. H., BSc *New Br*, PhD Asst Prof
 Groux, W. H., BSc *Br Col*, MA PhD Asst Prof
 Tovell, W. M., MS *Cal Tech*, BA Sp Lectr
 Meen, V. B., MA PhD Sp Lectr
 10 Assts, 1 Res. Assoc., 2 Instia

German

Boeschstein, H., PhD *Rostock*, FRSCan
 Prof, Hd of Dept (C)
 Sinden, Margaret J., BA PhD Assoc. Prof (C)

CANADA

Milnes, H N, PhD *Ohio State*, MA
 Assoc Prof (C)
 Hofrichter, Laura, MA PhD
 Asst Prof. (C)
 Wiebe, H. G., Dp *Odesa*, MA PhD
 Asst Prof. (C)
 de Boer, R, LattD *Amst*
 Lectr (C)
 Surerus, J A., BA
 Prof., Hd of Dept (V)
 Arnold, R K, PhD *Prague*
 Prof. (V)
 Field, G W., MA PhD
 Assoc Prof (V)
 Lewis, C, MA *Oxon*
 Prof., Hd of Dept (T)
 Joyce, D A, BA *McG*, AM *Harv.*, PhD
 Asst Prof (T)
 Carson, Mis Victoria M., MA PhD
 Assoc Prof (M)
 Instr (C), Instr Fellow (V)

Graduate Studies, School of

Gordon, A. R., OBE, MA PhD, FRSCan Dean
 (Grad instruct. and supervision are undertaken by all Depts of the Univ.)

History

Careless, J M. S., AM PhD *Harv.*
 Prof., Chairman of Dept
 Creighton, D G., MA *Oxon.*, Hon LLD
New Br., Qu., Sask & Br. Col., Hon
 DLitt *Manit & McG*, BA, FRSCan Prof
 Brown, G W., MA PhD *Chc*, Hon
 LLD *Br. Col.*, BA, FRSCan Prof
 Thornton, A. P., MA *Glas*, DPhil *Oxon*
 Wilkinson, B, MA PhD *Manc.*, FRSCan Prof
 McDougall, D J., MA *Oxon*, BA
 Prof.
 Saunders, R. M., MA *Clark*, PhD *Corn*
 Stacey, C. P., OBE, CD, AM PhD *Prin.*,
 Hon LLD *Mt All.*, BA *Oxon & Tor*
 Powicke, M. R., MA *Oxon* Assoc. Prof
 Conacher, J B, MA *Qu*, PhD *Harv*
 Assoc Prof
 Cairns, J C, PhD *Corn*, MA
 Asst Prof
 Craig, G M, PhD *Minn* Asst Prof
 Spencer, R A, BA *McG*, DPhil *Oxon*,
 MA Asst Prof
 McNaught, K. W, MA PhD Asst Prof.
 Saywell, J. T., MA *Br. Col.*, PhD *Harv*
 Asst Prof
 Nelson, H. I., MA *Corn* Asst Prof.
 Piepenburg, W. W., MSc *Wis*, PhD *Camb.*
 Asst Prof
 Zaslow, M., BA BEd *Alta.*, MA PhD Asst Prof.
 White, P. C. T., BA *Br. Col.*, MA *Camb*,
 PhD *Minn.* Asst Prof.
 Rose, E. E., MA *Camb.* Lectr
 Bearne, E. M., BA *Corn.*, PhD *Ill.* Lectr.
 Cook, G. R., BA *Manit.*, MA *Qu.* Lectr.
 Lloyd, T., MA DPhil *Oxon.* Lectr
 Moore, A. L., PhD *Minn.*, BA Lectr
 Instr

History, Ancient, see Classics

Household Science

McLaren, Barbara A, BSc *Alta*, MS *Minn*,
 PhD *Wis.* Prof., Hd. of Dept
 Park, Edna W., MA Assoc. Prof

Wardlaw, Janet M., MS *Tennessee*, BA
 Asst Prof
 Upton, Elizabeth E., MA Asst Prof.
 Fraser, Mrs Janet M., BA Lectr.
 Irwin, Mrs Kathleen E., MA *Col.*, BA Lectr.
 Armstrong, Iva, MA *Br. Col.* Sp Lectr.
 Hellebust, Miss Dorothy M, MA Lectr.
 Johnson, Verna, BA *Brigham Young*,
 MS *Iowa* Lectr.
 Letch, Martha, BArch Lectr.
 Instr., Instr. Demr.

Hygiene, School of

Rhodes, A. J., MD, FRCPEd, FRSCan
 (Microbiol.) Prof., Dir.
 Brown, M H, OBE, MD BSc(Med) DPH
 (Pub Health) Prof., Hd of Dept.
 Parker, R. C., BA DSc *Acad.*, PhD *Yale*
 (Exper Cytol.) Prof.
 Wishart, F O., MA MD DPH (Microbiol.) Prof
 McKinnon, N E, MB
 (Epidemiol. & Biometrics) Prof., Hd. of
 Dept
 MacLean, D L, OBE, MB BSc(Med)
 DPH MD (Pub Health) Prof.
 Le Riche, W H, BSc BCh MD *Rand*,
 MPH *Harv* Prof.
 Fraser, Frieda H, BA MB (Microbiol.) Prof.
 McHenry, E W, MA PhD, FRSCan
 (Nutrition) Prof.
 Agnew, G. H, MD Hon LLD *Sask*,
 FACP (Hosp Admin.) Prof.
 Fallis, A. M, BA PhD, FRSCan
 (Parasitol.) Prof
 Cunningham, J. G., BA MB DPH
 (Physiol Hyg.) Prof.
 Mosley, W, MD CM *McG*, DPH
 (Pub Health Admin.) Prof
 Brown, J R, BSc MB BS PhD *Lond*
 (Physiol Hyg.) Prof., Hd of Dept
 Reid, D. B W, MA *McG*, MSc *Virginia*
 Polytech Inst Prof
 Simunovitch, L., PhD *McG*. (Microbiol.) Prof
 Wilson, R. J., MA *Br. Col.*, MD DPH
 (Pub Health) Assoc. Prof.
 Fisher, A M, MA PhD Assoc Prof.
 MacLeod, D. R E, BA MD BSc(Med) DPH
 (Epidemiol. & Biometrics) Assoc Prof.
 MacPherson, L. W., PhD *Edin*
 (Microbiol.) Assoc Prof.
 Berry, A E, MASc CE PhD
 (Pub Health Engin.) Assoc Prof.
 Stuart, Eugenie M., BSHA MHA *Northwestern*
 (Hosp. Admin.) Assoc Prof.
 Goodwin, J. E., BASc PhD
 (Physiol Hyg.) Assoc Prof.
 Freeman, R. S, BS MA PhD *Minn*
 (Parasitol.) Assoc Prof.
 Piercey, W D, BSc MD CM *Dal.*,
 DOMS *Lond.* (Hosp. Admin.) Assoc Prof
 Beaton, G H, MA PhD (Nutrition) Prof
 Hastings, J E F, MD DPH Prof
 Sutherland, R. B, MD CM *Qu.*, DPH
 DIH Asst Prof

- McGann, H. R., BA *Br. Col.*, DHA
(Hosp. Adm.) Asst. Prof
- McLaren, K. S., BA MEd *Sask.*, DHA
(Hosp. Adm.) Asst. Prof
- McLean, D. M., BSc BS MD *Melb*
(Microbiol.) Asst. Prof
- Farkas-Humsley, Mis. Hannah, MSc
PhD *Jerusalem* (Microbiol.) Asst. Prof.
- Schwenger, C. W., MD DPH
(Pub. Health) Asst. Prof.
- Brown, W. G., MD DPH †Sp. Lectr.
- Currey, D. V., MD DPH †Sp. Lectr.
- Edge, G. A., BVSc DVPH †Sp. Lectr.
- Fischer, J. B., MSA Sp. Lectr.
- King, R. M., MD DPH Sp. Lectr.
- Liswood, S., BA CCNY, MBA *Chic.*,
MPH *Harv.* Sp. Lectr.
- Puffer, D. S., BA MB DPH †Sp. Lectr.
- Sellers, A. H., BA MD DPH †Sp. Lectr.
- Elkerton, L. E., MD DPH †Sp. Lectr.
- Boyd, A. R. J., BA *Sask.*, MD CM *McG.*,
DPH †Sp. Lectr.
- Bulmer, F. M. R., MB BSc(Med) †Sp. Lectr.
- Sharpe, J. E., OBE, MD *W. Ont.* Sp. Lectr.
- Sturgeon, L. W. C., MB DPH †Sp. Lectr.
- Moss, G. W. O., MD DPH Sp. Lectr.
- Martin, G. K., MD DPH Sp. Lectr.
- Mastromatteo, E., MD DPH DIH Sp. Lectr.
- Ferguson, R. B., BA DHA †Sp. Lectr.
- Nixon, M. C., BSA †Sp. Lectr.
- Caverley, D. S., MASC †Sp. Lectr.
- Charon, K. C., MD CM †Sp. Lectr.
- Siebenmann, C. O., ChemEng *Zür.*,
Ding *T.H. Karlsruhe* Sp. Lectr.
- Veen, Margaret J., MA Lectr.
- Clarke, W. T. W., MD, FRCP(Can) †Sp. Lectr.
- Webb, Jean F., BSc *Acad.*, MD CM *McG.*,
DPH Sp. Lectr.
- 2 Assocs., 2 Fellows, 4 Res. Assts

Islamic Studies

- Wickens, G. M., MA *Camb*
Prof., Hd. of Dept. (C)

Italian and Hispanic Studies

- Stagg, G. L., MBE, MA *Camb*, AM *Harv*
Prof., Hd. of Dept.
- Cano, J., BA *San Ildefonso (Toledo)*,
AM PhD *Col.* Prof.
- Parker, J. H., MA PhD Prof.
- Chandler, S. B., BA PhD *Lond* Assoc. Prof.
- Corrigan, Beatrice M., MA PhD Assoc. Prof.
- Marin, D., LLB *Madrid*, BA *Lond.*, MA
PhD Assoc. Prof.
- Taylor, N. H., MA PhD Asst. Prof.
- Molinaro, J. A., MA PhD Asst. Prof.
- Gordon, A. M. Asst. Prof.
- Levy, K. L., MA PhD Asst. Prof.
- Dawson, T. L. C., MA PhD Asst. Prof.
- Barclay, T. B., MA PhD Asst. Prof.
- McCready, W. T., MA *Chic.* Asst. Prof.
- Romeo, L. Asst. Prof.
- Ukas, M. W., MA PhD Lectr.
- 1 Instr.

Law

- Wright, C. A., QC, BA *W. Ont.*, Hon. LL.D.
Br. Col., *W. Ont. & Qu.*, SJD *Harv* Prof.
- Abel, A. S., BA LL.M. SJD *Harv.*,
JD *Harv. & Iowa* Prof.
- Laskin, B., QC, LL.M. *Harv.*, MA LL.B. Prof.
- La Brie, F. E., BA LL.B. *Alta.*, LL.M. DJur Prof.
- Milner, J. B., LL.B. *Dal.*, LL.M. *Harv* Prof.
- Willis, J., BA *Oxon.* Prof.
- McWhinney, E., LL.M. SJD *Yale* Assoc. Prof.
- Weston, A. B., LL.B. *W. Aust.*, BCL *Oxon.* Assoc. Prof.
- Dunlop, J. B., BA *Qu.*, LL.M. *Harv.*,
LL.B. Asst. Prof.
- Green, B., BA *McM.*, LL.M. *Harv.*,
LL.B. Asst. Prof.
- MacGuigan, M. R., BA *St. Dun.*,
LL.M. *Col.*, PhD Asst. Prof.
- Grossberg, B., QC Sp. Lectr.
- Macauley, R. W., QC, BA Sp. Lectr.
- McLean, W. E., QC, BA LL.B. *Manit.* Sp. Lectr.
- Van Every, A., QC, BA Sp. Lectr.
- 3 Assocs., 1 Demo.

Library School, see Ontario Coll. of
Education (p. 348)

Mathematics

- De Luy, D. B., MA PhD
Prof., Chairman of Dept.
- Webber, W. J., BA *Camb* Prof.
- Atkinson, F. W., DPhil *MA Oxon* Prof.
- Coxeter, H. S. M., BA PhD *Camb.*,
LL.D. *Alta.*, FRS, FRSCan Prof.
- Scheik, P., PhD *Gott.*, FRSCan Prof.
- Sheppard, N. E., MA, FIA Prof.
- Robinson, G. de B., MBE, PhD *Camb.*, BA,
FRSCan Prof.
- Fraser, D. A. S., AM PhD *Prin.*, MA Prof.
- Knegei-Dunaj, C. Cecilia, MA PhD Assoc. Prof.
- Duff, G. F. D., PhD *Prin.*, MA Assoc. Prof.
- Crosby, W. J. R., MA PhD Assoc. Prof.
- Tutto, W. T., MA MSc PhD *Camb.*,
FRSCan Assoc. Prof.
- Rooney, P. G., BSc *Alta.*, PhD *Cal.* Assoc. Prof.
- Baillie, D. C., MA Assoc. Prof.
- Chalk, J. H. H., PhD *Lond. & Camb* Assoc. Prof.
- Pillow, A. F., BA *Melb.*, PhD *Camb.* Assoc. Prof.
- Watson, G. S., BA *Melb.*, PhD *N. Carolina* Assoc. Prof.
- Chung, J. H., MA PhD Asst. Prof.
- Kahan, W. Asst. Prof.
- Blamerd, B., SB *M.I.T.*, MS PhD *Mich.* Asst. Prof.
- Wormleighton, R., PhD *Prin.*, MA Asst. Prof.
- Abrahamson, R. Asst. Prof.
- Naylor, D., PhD *Lond.* Asst. Prof.
- Sen, D. K., MSc *Patna*, DSc *Pau.* Lectr.
- Ross, R. A., MA PhD Lectr.
- Sherk, F. A., MSc *McM.*, BA PhD Lectr.
- Scriba, C. J., DrRerNat *Gessen* Lectr.
- Shale, D., SM PhD *Chic.* Lectr.

Vanstone, J. R., PhD *Natal*, MA
Reid, D. B. W., MA *McG*, MSc *Vigima*
Polytech. Inst.
11 Teaching Fellows, 1 Instr

Newby, Rev Canon M T, MA
Prof, Hd of Dept (T)
1 Teaching Fellow (C), 1 Instr

Medieval Studies, see Philos

Medicine and Surgery, see below

* **Metallurgy**, see Applied Science and Engineering, below

Mineralogy, see Geol. Scis

Music

Neel, L. B., CBE, BA *Camb*
Dean, Royal Conserv of Music of
Toronto

Walter, A. M., Jui UtrDr *Prague* Dir of Fac
Mazzoleni, E., MusB *Oxon*, MusD *Roch*,
BA Principal, Sch. of Music

Rosevear, R. A., AB *Conn*, MMus *Roch*
(School Music) Assoc Prof

Olnick, H. J., BS *N.Y.*, MA *Col.* Assoc Prof
Johnston, A. R., BMus *Northwestern*, MMus
PhD *Roch* (School Music) Assoc Prof

Weinzwieg, J. J., MMus *Roch*, MusBac
Assoc. Prof

Schaeffer, M., MusB AB *Oberlin*,
PhD *Western Reserve* Assoc Prof

Morawetz, O., MusDoc Assoc Prof

Pratz, A. Asst Prof

Primrose, W. Asst Prof

Ricci, G. Asst Prof

Robbins, B. Asst Prof

Mankovitz, B. Asst Prof

Ridout, G. Lectr

Kenins, T. Lectr

Beckwith, J., MusBac Lectr

Peaker, C., MusDoc, FRCO Sp. Lectr.

Near Eastern Studies

Winnett, F. V., MA PhD, FRSCan
Prof, Hd of Dept. (C)

McCullough, W. S., MA BD PhD Prof (C)

Williams, Rev R. J., PhD *Chc*, MA BD
Prof. (C)

Wickens, G. M., MA *Camb.* Prof. (C)

Tushingham, A. D., BD PhD *Chc*, BA
Assoc Prof. (C)

Wevers, J. W., BA *Calvin Coll.*, ThB *Calvin*
Theol Sem., ThD *Prin* Assoc Prof. (C)

Marmura, M. E., BA *Wis*, MA PhD *Mich.*
Lectr (C)

Sweet, R. F. G., MA *Manc*, PhD *Chc*
Lectr. (C)

MacPherson, Rev. J., MA *McG*, BD *Montr*
Assoc Prof, Hd. of Dept (V)

Holland, J. D., MA Lectr (V)

Staples, W. E., MA PhD Sp Lectr

Nursing, School of

Fidler, Nettie D., BA Prof., Dir

Millman, Mary B., BA Prof

Uprichard, Muriel, BA *Qu.*, MA *Smith*,
PhD *Lond* Assoc Prof

Wilson, M. Jean, BA *Sask.*, BPaed Asst Prof

Bennett, Hilda A., MA *Chc*, BA Asst Prof.

Carpenter, Helen M., BS *Col.*,
MPH *Johns H* Asst Prof.

Watson, Jeannette E., BScN *W Ont*,
MScN *Detroit* Asst Prof.

King, Kathleen, MSN *Yale*, BA BScN
Asst. Prof.

MacPhail, Janetta, BS *Col* Lectr.

Brehaut, Mrs Carol, BScN Lectr

Farnden, Ruth I., BScN Lectr

Miller, Beverley, BScN Lectr.

Robertson, Elizabeth, BA MD PhD Lectr

Turner, Mary N., BScN Lectr

Oriental Languages, see Near Eastern Studies

Pharmacy

Hughes, F. N., BScPharm Hon LLD
Purdue, PhmB MA Prof

Walker, G. C., BSc *Alta*, MS PhD *Purdue* Prof

Fuller, H. J., BA *W Ont.*, MA *Yale*, PhmB Prof

Baxter, R. M., BSP MSc *Sask.*, MS PhD *Flor*,
PhmB Assoc. Prof

Paterson, G. R., BSP MSc *Sask.*, PhD *Wis*,
PhmB Assoc Prof

Kennedy, D. R., PhD *Flor.*, BScPhm
PhmB Asst Prof.

Nairn, J. C., PhD *Buffalo*, BScPhm Asst Prof.

Teare, F. W., MSc *Alta*, PhD *N Carolina*
Asst Prof

Sim, S. K., BSc MS PhD *Wash.* Asst Prof

Stauffer, Mrs. Isobel E., BSc *Alta.*,
MSc *Western Reserve* Asst Prof

Walker, I. G., BA *Sask*, MA PhD Sp Lectr.

16 Demrs, 1 Res. Asst

Philosophy

Anderson, F. H., BA Hon LLD *Dal*, MA
PhD, FRSCan Prof, Hd of Dept (C)

Goudge, T. A., MA *Dal.*, PhD, FRSCan
Prof. (C)

Long, W. M. D., MA PhD Prof (C)

McRae, R. F., PhD *Johns H*, MA Prof. (C)

McCurdy, W. J., BA *Dal.*, AM
PhD *Harv* Assoc Prof. (C)

Eckenheim, E. L., PhD Assoc Prof. (C)

Savan, D., AM *Harv* Assoc Prof. (C)

Dryer, D. P., AM *Harv* Assoc Prof. (C)

Sparshott, F. E., MA *Oxon* Asst. Prof. (C)

Butler, R. J., MA *N Z* Asst. Prof. (C)

Dray, W. H., MA DPhil *Oxon*, BA
Asst. Prof. (C)

Gallop, D., MA *Oxon* Asst Prof. (C)

- Webb, C. W., MA *W Ont.*, PhD Asst. Prof (C)
 Wheatley, J. M. O., MA *New Br*, PhD
 Asst Prof. (C)
 Gauthier, D. D., AM *Harv.*, BPhil *Oxon.*,
 BA Lectr (C)
 Hunter, J. F. M., PhD *Edin.*, MA Lectr (C)
 Payzant, G. B., BA *Dal.*, MA Lectr (C)
 Irving, J. A., MA *Tor & Camb*
 Prof., Chairman of Dept. (V)
 Macpherson, Jessie, MA PhD Assoc Prof (V)
 Edison, G., AM *Col.*, PhD
 Prof., Hd. of Dept (T)
 Fairweather, Rev. E. R., ThD *U.T.S. (N.Y.)*,
 MA BD Assoc Prof (T)
 Owen, Rev. D. R. G., MA *Oxon.*,
 BA PhD Lectr (T)
 Kelly, Rev. J. M., MA PhD
 Prof., Pres. of Inst. of Med. Studies (M)
 Gilson, E., DPhil *Paris*, LLD *Aberd.*, *Harv.*,
St. And. & *Glas.*, PhD *Montr.*, *Rome*
 & *Milan*, D Litt *Oxon.*, LittD *Col.* Prof (M)
 Dote, Rev. J. W., PhD *Ott.*, BPhil MA Prof (M)
 Pegis, A. C., MA *Marquette*, PhD, FRSCan
 Prof (M)
 Phelan, Rev. G. B., MA *St. F. X.*, SJB
 C U A, PhD *Lowann.*, LLD *Dub.*,
 St M & *Tor.*, FRSCan Prof (M)
 Eschmann, Rev. I. T., PhD STD *Rome* Prof (M)
 Lynch, L. E. M., MA LMS PhD Prof (M)
 Synan, Rev. E. A., BA *Seton Hall*, STL
 C U A, MSL *Pontif Int.*, *Tor.*, MA
 PhD Assoc Prof (M)
 Owens, Rev. J., MSD *Pontif Int.*, *Tor.*
 Assoc Prof (M)
 Maurer, Rev. A. A., MA PhD Assoc Prof (M)
 Dewart, L. S., MA PhD Asst Prof. (M)
 Lang, T. J. F., MA Asst Prof (M)
 2 Instrs (T), 2 (M), 2 (C)
- Physical and Health Education,
School of**
 Ebbs, J. H., MD *Tor. & Birm.*, FRCPCan
 Prof., Du
 Stevens, W. A., BS *Syr*
 Assoc Prof., Dir. of Athletics & Phys
 Educn (Men)
 Griffiths, M. G., MPE *Springfield*, MA *Col.*
 Assoc Prof., Asst Du
 Wilson, R. J., MA *Br. Col.*, MD DPhil Lectr
 Slack, Zenad, BA *McG*
 Assoc. Prof., Du. of Phys. Educn (Women)
 Jackson, Dorothy N. R., BSc MA N Y
 Assoc Prof., Asst Dir., Athletics &
 Phys Educn (Women)
 McCutcheon, J. E., Assoc Prof., Asst Du
 White, A. D., BA Med Asst Prof
 Kennedy, J. R., BPhil Lectr
 McManus, J. S., BPhil Lectr
 Wipper, K. A. W., BPhil BSW BEd MA Lectr
 McCatty, C. A. M., BA Lectr
 7 Instrs, 1 Asst
- Physics**
 Watson, W. H., MA PhD *Edin. & Camb.*,
 FRSCan Prof., Hd. of Dept
- Barnes, C., MSc *Leeds*, PhD Prof.
 Wilson, J. T., OBE, BA *Tor.*, MA ScD
 Camb, PhD *Prim.*, LLD *Car.*, Hon
 DSc *W Ont.*, FRSCan (Geophys) Prof.
 Stryland, J. C., PhD *Amst* Prof
 Welsh, H. L., MA PhD, FRSCan Prof
 Johns, H. E., BA *McM.*, Hon LLD *Sask.*,
 MA PhD, FRSCan Prof.
 Van Kranendonk, J., PhD *Amst.* Prof.
 Gotlieb, C. C., MA PhD Prof
 Anshle, D. S., MA PhD Assoc Prof
 Anderson, J. M., MA PhD Assoc Prof
 McKay, R. W., MA PhD Assoc Prof
 Scott, G. D., MA PhD Assoc Prof
 Hume, J. N. P., MA PhD Assoc Prof
 Alim, Elizabeth J., MA PhD Assoc Prof
 Ivey, D. G., MA *Br. Col.*,
 PhD *Notre Dame* Assoc. Prof.
 McNeill, K. G., MA DPhil *Oxon* Assoc Prof
 Richmond, R., MA PhD Assoc Prof
 Crossley, Kathleen M., BA Asst. Prof.
 Farquhar, R. M., PhD Asst. Prof.
 Graham, G. M., MSc *Dal.*, PhD *Camb*
 Gush, H. P., BE BA MSc *Sask.*, PhD Asst. Prof.
 Steenberg, N. R. F., MC, MSc *Qu.*,
 DPhil *Oxon.* Asst. Prof.
 Grant, F., BASC MS *Ill.*, PhD Asst. Prof.
 Prunty, J. D., MSc *McG.*, PhD *Glas* Asst. Prof.
 Worsley, Beatrice II, SM *M. I. T.*,
 PhD *Camb.*, BA Asst. Prof.
 May, A. D., MA PhD Asst. Prof.
 Azuma, R. E., Asst. Prof.
 West, G. F., BASC MA Lectr
 22 Demis, 3 Instrs, 28 Assts, 1 Reader,
 1 Class Asst
- Political Economy**
 Bladen, V. W., MA *Oxon.*, FRSCan Prof
 Ashley, C. A., BCom *Bum.*, FCA Prof
 Biady, A., BA *Tor. & Oxon.*, MA PhD,
 FRSCan Prof.
 Clark, S. D., MA *Sask. & McG.*, PhD,
 FRSCan Prof
 MacGiegot, D. C., BA, FRSCan Prof
 Keustead, B. S., BA *New Br. & Oxon.*,
 LLD *New Br.*, FRSCan Prof
 Keyfitz, N., BSc *McG.*, PhD *Chic* Prof
 Currie, A. W., BA BCom *Qu.*,
 DComSc *Harv* Prof
 Easterbrook, W. T., BA *Manit.*, MA *Camb*
 & *Tor.*, PhD, FRSCan
 Prof., Chairman of Dept
 Hall, O., BA *Qu.*, MA *McG.*, PhD *Chic* Prof
 Helleiner, K. F. M., PhD *Vienna*, FRSCan Prof.
 Hood, W. C., BA *Mt. All.*, MA PhD Prof
 Macpherson, C. B., MSc (Econ) DSc *Lond.*,
 BA, FRSCan Assoc Prof
 Skilling, H. G., MA *Oxon.*, PhD *Lond.*, BA Prof
 Hennessey, S. G., BCom, CA Assoc Prof
 Morgan, L. T., BA *Br. Col.*, MA PhD *Calif.* Assoc Prof.
 Dales, J. H., PhD *Harv.*, MA

- Beard, F. N., BCom Assoc Prof
 Fox, P. W., PhD Lond, MA Assoc Prof
 Triantis, S., BA LLB Athens, MA PhD
- Giffen, P. J., MA Assoc Prof
 Pratt, R. C. Asst Prof
 Sands, J. E., BCom Asst Prof
 Wallace, Mary E., BA Oxon & Tor, PhD Col Asst Prof.
 Burnet, Jean R., PhD Chic, MA Asst Prof
 Eastman, H. C. M., AM PhD Chic, BA Asst Prof
 Eayrs, J. G., AM PhD Col., BA Asst Prof
 Green, H. A. J., MA Oxon, PhD M I T Asst. Prof
 Grasham, W. E., BASc MA Asst Prof
 Neufeld, E. P., BA Sask., PhD Lond Asst. Prof
 Hartle, D. G., BA Car., MA PhD Duke Asst Prof
 Wolfe, J. N., MA McG., BLitt Oxon. Asst. Prof
 Zakuta, L., MA McG Asst Prof
 Stykolt, S., AM PhD Harv., BA Asst Prof.
 McDonald, J. I., MA W. Ont. Lectr
 Macdonald, H. I., BPhil MA Oxon, BCom Lectr.
 McLeod, J., MA Sask. Lectr
 Roberts, J. M., BA BPhil Oxon. Lectr
 Russell, P., BA Oxon. & Tor. Lectr.
 Slesor, G., BA Car. Lectr.
 Watkins, M. H., BCom Lectr
 Watson, A. M., MA Oxon. & Tor., BCom Lectr.
 3 Instrs., 10 Assts., 4 Res Assocs
- Portuguese, see Italian**
- Psychology**
 Blatz, W. E., PhD Chic., MA MB Prof.
 Bernhardt, K. S., PhD Chic, MA Prof, Dir, Inst of Child Study
 Lane, W., OBE, BSc Mt All., MA MED Alta., PhD Lond Prof
 Myers, C. R., MAPHD Prof, Chairman of Dept
 Williams, D. C., BA Manit., MA PhD Prof.
 Ketchum, J. D., MA Prof
 Amsell, A. Assoc Prof
 Mandler, G. Assoc. Prof.
 Shephard, A. H., MA PhD Iowa Assoc. Prof
 Steer, H. O., MA PhD Assoc Prof
 Callagan, J. E., BA Manc., PhD Lond. Asst. Prof.
 Quarrington, B. J., MA Qu., BA PhD Asst. Prof.
 Grapko, M. F., BA Manit., PhD Asst. Prof
 Macdonald, G. E., BED Sask, MA PhD Asst. Prof.
 Joyner, R. C., DFC, MA PhD Asst Prof.
 Laurence, Mary W., MA PhD Asst. Prof
 Northway, Mary L., MA PhD Asst Prof
 Thornton, G. B., MASc PhD Asst Prof.
 Tulving, E., MA PhD Harv. Asst. Prof.
 Walters, R. H., MA Brit., BPhil Oxon., PhD St And Asst. Prof
 Gibbins, R. J., MA Qu. Lectr
 Bishop, H. E., BSc McG. Lectr
 Millichamp, Dorothy A., MA Sp. Lectr
- Neiger, S., MD PhD Innsbruck Sp. Lectr
 1 Teaching Fellow, 14 Assts, 2 Res Assocs
- Religious Knowledge, see Federated Colls, below**
- Russian, see Slavic Studies**
- Slavic Studies**
 Bowman, H. E. Prof, Chairman of Dept
 Luckyy, G., MA Birm, PhD Col Prof.
 Stralchovsky, L. I., DHistSc Louvan Assoc Prof
 Bedford, C. H., PhD Lond, MA Asst Prof.
 Du Feu, Veronica M. Asst. Prof
 Jenkins, Mrs. Maya, BA Lond, MA Asst Prof
 Kay, M. L., MA Oxon & Tor Lectr
 2 Teaching Fellows, 2 Assts
- Social Science, see Pol Econ. and Soc Work**
- Social Work, School of**
 Hendry, C. E., BA McM., MA Col., MH Springfield Prof., Dir
 Jaffary, S. K., BSc MA Alta, PhD Chic Prof.
 Morgan, J. S., MA Oxon, DipEd Durb. Prof.
 Govan, Elizabeth, BA Oxon, PhD Chic, MA Prof
 Rose, A., MA PhD Ill, BA Prof
 Spencer, J. C., MA Oxon, PhD Lond. Assoc Prof.
 Medhurst, R. R., AB MSW S Calif Assoc Prof.
 Rhinewine, Shulameth, MSW Penn, BA Assoc Prof
 Godfrey, E. Ray, MA Chic, BA Assoc. Prof.
 Perretz, E. A., BA N Y, MSW Denues Assoc Prof
 Byles, J. S., BA MSW W Ont. Asst Prof
 Farina, A. J., BA MSW Br. Col. Asst. Prof
 Seeley, Mrs. M., BA Manit., MA Chic. Asst. Prof
 Horwitz, J. J., BSS N Y, MS Col Asst Prof
 Kirkpatrick, Mrs. Margaret N., BA Qu, MSW Asst Prof
 Dunlop, Jean L., MSW Asst Prof
 Posen, Minda, BA MSW Asst. Prof.
 Gripton, J., BA MSW Lectr.
 Warrner, Mrs. Florence Lectr
 Lappin, B., BA McM. Lectr
 Bellamy, D., BA W Ont., MSW Sp Lectr
 Boothroyd, W. E., BA Mt All., MD CM Dal. Sp Lectr
 Cornish-Bowden, J., MED Tufts Sp Lectr
- Spanish, see Italian**
- Zoology**
 Fisher, K. C., BA Acad, MA PhD, FRSCan Prof, Chairman of Dept.
 Craigie, E. H., BA PhD, FRSCan (Compar Anat & Neurol) Prof.
 Fry, F. E. J., MBE, MA PhD, FRSCan (Limnol.) Prof.

Walker, Mrs Norma Ford, BA PhD
(Human Biol) Prof.
Langford, R. R., BSc Sask, PhD Prof.
Ide, F. P., MA PhD Assoc Prof.
Atwood, C. E., BSA McG, MSA PhD
(Forest Entomol) Assoc Prof.
Butler, L., MSA PhD (Genetics) Assoc Prof.
Engelbert, Miss Vibeke E., MSA PhD
(Histol) Assoc Prof.
McCaillon, D. J., MA McG.,
PhD Brown Assoc Prof.
Neal, G. M., MA Br Col. Asst Prof.
Sullivan, Charlotte M., MSc Dal., PhD
Falls, J. B., BA PhD Asst Prof.
Beckel, W. E., BA Qu, MSc Iowa,
PhD Can Asst Prof.
Kinne, O. M., PhD Kiel Asst Prof.
Friend, W. G., BSc McG, PhD Corn
Liversage, R. A. Asst Prof.
Rugler, F., MA PhD Asst Prof.
Clark, G. M., BSc SirG. Wms, MSc McG.,
PhD Atlanta Asst Prof.
Parsons, T. S. Asst Prof.
Tallen, I., BSc Rutgers, PhD Indiana Asst Prof.
Churcher, C. S., MSc Natal, PhD Asst Prof.
McGregor, Ailee M. Sp Lectr
19 Demrs, 1 Instl, 1 Asst, 1 Res Asst

APPLIED SCIENCE AND ENGINEERING

McLaughlin, R. R., MASC MA PhD Dean
Wilson, W. S., ED, BASC Asst Dean, Sec

Aerophysics

Patterson, G. N., BSc LLD Alta, MA PhD,
FRAS, FRSCan
(Aerodynam) Prof, Hd of Dept
Etken, B., MASC Prof
Rubner, H. S., MS PhD Wash. Prof
Glass, I. I., MASC PhD Prof
Korbaeker, G. K., DipIng Berl Assoc Prof
DeLeeuw, J. H., MS Georgia, PhD Asst Prof
Poppleton, E. D., MScEng Asst Prof
Husocks, R. D., MBE, BASC Sp Lectr
8 Demrs, 2 Res. Assocs

Chemical Engineering

Breckenridge, J. G., PhD Camb., BASC
Prof, Hd. of Dept
McLaughlin, R. R., MASC MA PhD Prof
Rapson, W. H., MASC PhD Prof
Graydon, W. F., PhD Minn., MASC Prof
MacElhenny, W. G., MASC Assoc Prof
Johnson, A. I., MChE Brooklyn,
BASC PhD, FCIC Assoc Prof.
Andrews, D. G., MA Camb Assoc Prof
Burgess, W. H., BChE MFS
PhD Corn Assoc Prof
Spinner, I. H., MASC PhD Assoc Prof
Jervis, R. E., MA PhD Asst Prof
Missen, R. W., MSc Qu., PhD Camb Asst Prof
Sandler, S., MASC Asst Prof

Trass, O., BSE Prin, ScD MIT Asst Prof
Binkiewicz, J., DipIng Warsaw Lectr.
May, Z., DipIngChem Warsaw Lectr.
Marton, A., DipChemEng PhD Bud, MA Lectr.
2 Instrs, 25 Demrs, 1 Res Assoc

Civil Engineering

Morrison, C. F., BE Sask., MSc McG.
Prof, Hd. of Dept.
Sagar, W. L., BASC CE Prof.
Marshall, O. J., BASC CE Prof
Huggins, M. W., MASC Prof.
Helwig, C. E., MASC Assoc Prof
Macklin, H. L., BASC Assoc Prof
Hersfield, C., BSc Manit., MASC Assoc Prof
Wienshall, C. A., BE Sask Assoc Prof
Collins, R. A., MS PhD III, BA Asst Prof
Davidson, A. C., BSc Manit., MASC Asst Prof.
Davis, M. M., BSc Qu., MSc Purdue Asst Prof.
DeLory, F. A., BEng McG, PhD Lond,
MASC Asst Prof.
Dillane, C. W., BASC Asst Prof.
Frizzle, H. R., BSc N.S.T.C. Asst Prof.
Schwaighofer, J., DipIng Graz, MS
PhD Penn Asst Prof.
Haynes, B. J., BASC Asst Prof
Baibot, J. D., MASC Asst Prof
Walkci, A. W., MA Lectr
Emerson, L. P., BASC Lectr.
Gunn, R. G., BASC Lectr.
Meupoom, K., MASC Lectr
Sisson, W. H., BASC Lectr
Uzumuri, S. M., MASC Lectr
Bud, S. J. G., BASC Lectr
Reinhart, A. P., BASC DSc Graz Sp Lectr
Dunbar, W. B., BASC Sp Lectr
Wardell, A., BASC Sp Lectr
21 Instrs, 3 Readers

Electrical Engineering

Tracy, G. F., SM MIT, BASC
Prof, Hd of Dept
Smith, V. G., BASC Prof
Raid, J. E., BASC Prof
Sinclair, G., PhD Ohio State Prof
Ham, J. M., SM Scd MIT, BASC Prof.
Slemmon, G. R., PhD Lond, MASC Assoc Prof
Kravetz, A. J., BSc Alta, MASC Assoc Prof
Coustice, H. A., BASC Asst Prof
Brunner, P. P., DipEng Bud,
MSc Stockholm, PhD Asst Prof.
Straughan, A. R., BSc Lond, MASC Asst Prof.
Yen, J. L., BSc Chao Tung, MASC PhD
Burke, P. E., BE N.S.T.C., MASC Asst Prof.
Smith, K. C., MASC PhD Asst Prof
McCausland, I., MSc Belf., PhD Asst Prof
Berry, F. G., MASC Lectr
Dalton, I. R., MS Northwestern, BASC Lectr.
Dmitrevsky, S., BASC Lectr
Janischewskyj, W., MASC Lectr
6 Instrs, 11 Demrs

Mechanical Engineering

Lord, G R, SM *M.I.T.*, BSc PhD
 Prof, Hd. of Dept
 Wiren, R. C, BAsC
 Smith, I. W, MAsC
 Portet, A
 Barnes, W D., BSc *Alta.*, MS PhD *Iowa*
 Assoc. Prof
 Jones, L E, BSc CE *Manit.*, MAsC
 PhD
 Hughes, P B, BSc *McG*
 Hooper, F C, DIC, BAsC
 Allan, A. B, MAsC
 Carpendale, B. M. M., MA *Camb.*
 Ewens, F G, MAsC
 Proctor, C L., BS *Oklahoma Agric.*,
 MS *Purdue*
 Rimrott, F P J, DipIng *TH Karlsruhe*,
 PhD *Penn.*, MAsC
 Wallace, W A., BAsC
 Waimes, R T., BAsC
 Clough, D J., BAsC MCom
 Anderson, R. W. P., MAsC
 Godfrey, G. E., MAsC
 Leutheusser, H J., DipEng *T.H. Karlsruhe*,
 MAsC
 Miller, C H., MAsC
 Motow, W. J., MAsC
 Van de Vegte, J., MAsC
 McIntosh, W G., BAsC
 Bruce, J. P. MA
 Strom, R., BAsC
 3 Instrs, 17 Demrs, 1 Res Asst

Metallurgical Engineering

Pidgeon, L. M, MBE, BA *Manit.*, BSc *Oxon.*,
 PhD *McG*, FRSCan
 Prof, Hd of Dept
 Craig, G. B, MAsC PhD
 Winegard, W C., MAsC PhD
 Ross, H U, BEng MSc *McG*
 10 Demrs
 Assoc. Prof.
 Assoc. Prof
 Assoc. Prof

Mining Engineering

Rice, H. R, BSc *Qu.*
 Wolfe, S E, MAsC
 Hewer, W A. M., BAsC
 2 Instrs.
 Prof, Hd. of Dept.
 Prof
 Assoc. Prof.

Physics, Applied

Jackson, K. B, BAsC
 Henderson, V. L., AM *Mich.*, BAsC
 Friend, F. B, BA *McM.*, MA *Rech.*
 Currie, Miss Marion C., BAsC
 Steinberg, L. M, BA
 Vlcek, J, BScF *New Br.*, MAsC
 1 Instr, 1 Demr
 Prof, Hd. of Dept
 Assoc. Prof
 Asst Prof
 Lectr.
 Lectr
 Lectr

DENTISTRY

Ellis, R G, DDS MScD, FDSRCS
 Dean

Crown and Bridge Prosthesis

Prof

Dental Anatomy

Ham, A W, MB, FRSCan
 Paynter, K J, DDS PhD *Col*
 Prof.
 Prof.

Dental Bibliography

Johnson, J H, DDS
 Librarian

Dental Material and Technology

Assoc. Prof

Dental Pathology and Bacteriology

Ruddle, Winnifred C, BA
 Asst. Prof

Dental Public Health

Mitton, G T., DDS DDPH Prof, Hd of Dept

Dental Research

Nikifouk, G, MS *Ill.*, DDS
 Chairman of Div

Dental Surgery and Anæsthesia

Johnson, J H, DDS
 Locke, R S., BA *Sask.*, MS *Pitt.*, DDS
 Prof
 Prof

Dentistry

Ross, W. J, DDS
 Antoni, A A, DDS MScD
 Grainger, R. M., DDS MScD DDPH
 Hunter, H. A, DDS MScD
 Jackson, Marjorie, DDS
 Tanner, D M, MBE, DDS BScD
 Martin, F, DDS, FACD
 Yule, O J., BDS N Z., DDS, FACD
 Beierl, G. D, DDS *Mich*
 Assoc. Prof
 Assoc. Prof
 Assoc. Prof
 Assoc. Prof
 Assoc. Prof
 Asst. Prof
 Asst. Prof

Epidemiology and Statistics

Grainger, R. M, DDS MScD DDPH Consultant

Medicine

Graham, J. W., MD DDS, FRCPCan
 McKelvey, A D., MD, FRCPCan
 Assoc. Prof.
 Sp. Lectr

Operative Dentistry

Ellis, R. G, BDS *Adel.*, DDS MScD,
 FDSRCS
 Anderson, P. G, DDS, FACD
 Sheldon, J M, DDS
 Hare, G C, DDS, FACD
 Puiwes, J D., DDS
 Prof.
 Prof
 Assoc. Prof
 Assoc. Prof
 Assoc. Prof

Oral Diagnosis

Pedler, J. A
 Prof, Hd of Dept.

Orthodontics

Harvold, E, DMD *Lap.*, PhD *Oslo*
 Halderson, H., DDS
 Woodside, D G, BSc DDS *Dal.*, MScD
 Prof, Hd of Dept.
 Assoc. Prof.
 Assoc. Prof

Culbert, M R, DDS Asst Prof
 Posen, A L, MS III, DDS Asst Prof
 Spence, W J., MDS *Northwestern*, DDS Consultant

Pedodontics

MacGregor, S A., DDS Prof, Hd of Dept

Periodontology

Williams, C. H. M., DDS BScD Prof, Hd of Dept
 McIntosh, W G., DDS MScD, FACP Assoc Prof

Preventive Dentistry

Kreutzer, J., DDS BScD, FACP Prof
 Nikiforuk, G., MS III, DDS Prof
 Berry, Denis F. J., MA Asst Prof

Prosthodontia

Godfrey, R J., DDS MScD, FACP Prof, Hd of Dept
 Cox, M A., MB Prof
 Twible, R L., DDS BScD Prof
 Downton, E P., DDS BScD Assoc Prof

Radiography

Poyton, H G., FDSRCS Prof, Hd of Dept
 44 Assocs, 20 Demis, 1 Rcs Assoc, 1 Instt,
 11 Assts, 1 Res Asst, 1 Rcs Fellow

MEDICINE

Hamilton, J D., MD, FRCPCan Dean

Anæsthesia

Gordon, R A., BSc *Sask*, MD, FRCPCan Prof, Hd of Dept
 Campbell, S M., MB, FFRCS, FRCPCan Assoc Prof
 12 Clin Assts, 21 Clin Teachers, 5 Assocs,
 2 Res Fellows

Anatomy, see also Zool, above

Duckworth, J W A., ChB MD *Edin* Prof, Hd of Dept
 Ham, A W., MB, FRScan Prof
 Smith, C G., BA MSc *W Ont*, MD PhD Prof
 Bensley, Mrs Silvia H., BA *Mt Holyoke*, MD *Chic* Assoc Prof
 Leeson, T S., MA MB BChir *Camb* Assoc Prof
 Lewis, G F., MA Asst Prof
 Anderson, J E., MD Asst Prof
 Axelrad, A. A., BSc MD CM PhD *McG* Asst Prof
 McKenzie, R. G., MD Asst Prof
 Paynter, K. J., PhD *Col*, DDS Asst Prof
 McMurich, Kathleen I. Lectr
 Hall, M. C., BSc(Med) Lectr
 McCuag, K O., MD Lectr
 6 Demis

Art as Applied to Medicine

Wishart, Maria T Assoc Prof, Dir

Bacteriology, see Pathol**Biochemistry**

Hanes, C S., PhD ScD *Camb*, BA, FRS Prof, Hd of Dept
 Butler, G C., BA PhD, FRScan Prof
 Crocker, B F., MA PhD Assoc Prof
 Fisher, Mrs Jeanne M., MA PhD Assoc Prof
 Connell, G E., BA PhD Asst Prof
 Packham, Miss Marion A., PhD Lectr
 10 Fellows, 1 Rcs Asst, 2 Assts

Development of Modern Medicine

Boyd, W., MD *Edin*, FRCP, FRCPEd, Sp Lectr
 FRScan

Gynæcology, see Obstet and Gynæcol**Hygiene, see above****Medical Biophysics**

Ham, A W., MB, FRScan Prof, Hd of Dept.
 Johns, H E., BA *McM*, LL.D *Sask*, MA PhD, FRScan Prof
 Ash, C L., BSc *Atha*, MD DRad Prof
 Sumniovitch, L., BSc PhD *McG* Prof
 Axelrad, A. A., BSc MD CM PhD *McG* Assoc Prof
 Canader, B., PhD DSc *Lond* Assoc Prof
 Helleiner, C W., PhD Asst Prof
 McCulloch, E A., MD, FRCPCan Asst Prof
 Peters, M. Vera, MD Asst Prof
 Till, J E., MA *Sask*, PhD *Yale* Asst Prof
 Whitmore, G F., MA *Sask*, PhD *Yale* Asst Prof
 Hunt, J W., MSc *Sask*, PhD *McG* Asst Prof
 1 Assoc

Medical Jurisprudence

Gray, K G., QC, MD BSc(Med) Lectr
 McLean, C R., MSc *McG*, MD CM *Qu* Lectr

Medical Research (Banting & Best Medical Research Department)

Best, C H., CBE, DSc *Lond*, *Oxon*, *Paris*, *Chic*, *Laval*, *Mame & Northwestern*, ScD *Camb*, MD *Amst*, *Louvain*, *Leige & Tor*, LL.D *Dal*, *Melb*, *Qu & Edin*, MA, FRS, FRScan, FRCPCan Prof, Dir
 Franks, W R., OBE, MA MB Prof
 Lucas, C. C., MSc *Br Col*, PhD, FCIC, Prof.
 Bai, E E F T., PhD *Berl*, FRScan Prof.
 (Synthetic Chem) Prof
 Chute, A L., OBE, PhD *Lond*, MA MD, FRCPCan Prof
 Campbell, I., MA PhD Prof
 Harst, R E., MA MD PhD, FRScan Prof
 Wrenshall, G A., MSc *Sask*, PhD *Yale & Tor*, MA Prof

CANADA

Salter, J M, MA *Br Col*, PhD
 Baker, D. G., MA PhD
 Buchnea, D., PhD *Berl.*
 Logothetopoulos, J, MD *Athens*
 Williams, S G R., BSc PhD *Lso*
 Ridout, Jessie H., MA PhD
 Feasby, W R, BA MD
 Lang, Jessie M, MA
 2 Res Assocs, 4 Res. Assts, 6 Fellows

Medicine

Wightman, K J R., MD, FRCPCan,
 FACP Prof., Hd. of Dept.
 Brown, W H., BA *Sask.*, MA DM *Oxon.*,
 FRCPCan, FACP Prof
 Brooks, E. F. J., MD, FRCPCan, FRCPCan
 Associate Professors

Anglin, A F W., BA *Montr.*, MD
 Kerwin, A. J., MD *Lond.*, FRCPCan
 Laidlaw, J C, PhD *Lond.*, MA MD, FRCPCan
 Macdonald, R I., MD CM *Dal.*, BA,
 FRCPCan, FRCPCan, FACP
 Maltby, E J., MB MA, FRCPCan
 Spaulding, W B, MD, FRCPCan
 Squires, A. H., MD, FRCPCan
 Wrong, N. M., MD, FRCPCan
 Graham, J W, MD DDS, FRCPCan
 Richardson, J C, MBE, MD BSc(Med),
 FRCPCan
 Walters, J A, BA MD DPM, FRCPCan
 Burton, C R., BA MD, FRCPCan

Assistant Professors

Crowther, T A, MB
 Davey, Jean F, OBE, BA MD, FRCPCan
 Gray, C C, MD, FRCPCan
 Greenwood, W. F., BA MD, FRCPCan
 Hall, W E, MD, FRCPCan
 Hamilton, F C., BA MB, FACP
 Hetherington, H., BA MB, MRCP, FRCPCan
 Moran, D B., MA MD, FRCPCan
 Ogryzlo, M A, MD *Manit.*, FRCPCan
 Oulie, W A, MD, FRCPCan, FACP
 Paterson, J. F., BA MD *Camb.*, MRCP,
 FRCPCan
 Silveraides, J. L., BSc MD *Manit.*, FRCPCan
 Warwick, O. H., BA *Mt All.*, MA *Oxon.*,
 MD CM *McG.*, MRCP, FRCPCan
 Yendt, E R, MD, FRCPCan
 23 Assocs, 37 Clin Teachers, 1 Sr. Fellow,
 31 Fellows, 26 Demrs

Obstetrics and Gynaecology

Cannell, D. E., MB BSc(Med), FRCSCan
 Prof., Hd. of Dept
 Henderson, D N., MB, FRCSCan Assoc Prof.
 Johnston, H W, MD, FRCSEd,
 FRCSCan Assoc Prof
 Meiklejohn, R B, MD, FRCOG Assoc Prof
 Purdy, A D T, MD, FRCSCan Assoc Prof
 Maloney, Geraldine, BA MD, FRCSCan,
 FACS Asst Prof
 Murby, W H, MD Asst Prof
 Watt, G L., MB Asst. Prof.

Assoc Prof
 Asst Prof
 Asst Prof
 Asst Prof
 Asst Prof
 Lectr
 Lectr.
 Lectr.

5 Assocs., 17 Clin Teachers, 6 Res. Fellows,
 2 Fellows, 3 Resident Fellows, 2 Res
 Assts

Ophthalmology

McCulloch, J C, MD Prof, Hd. of Dept
 Basu, P K., BSc MB DOMS *Calc.* Assoc. Prof.
 Macrae, H M., MD Asst. Prof
 Morgan, A L, MD Asst. Prof.
 Kelly, R G C., MD Asst. Prof
 6 Assocs., 7 Clin Teachers, 3 Fellows, 1
 Clin Fellow, 1 Res Assoc

Oto-Laryngology

Ireland, P. E., MD, FRCSCan, FACS
 Prof, Hd. of Dept.
 Whaley, J B, MD DLO Asst. Prof
 Henry, G A, MD, FACS Asst. Prof
 French, D. B., DLO *Lond.*, MD Asst. Prof.
 4 Assocs, 13 Clin Teachers, 2 Fellows

Pædiatrics

Chute, A L, OBE, PhD *Lond.*, MA MD,
 FRCPCan Prof, Hd. of Dept
 Boyd, Gladys L., MD BSc(Med), FRCPCan
 Snelling, C E, MB Assoc Prof
 Ebbs, J H, MD *Tor. & Birm.*, DChEng,
 FRCPCan Assoc Prof
 Silverthorne, L. N., MB Assoc Prof
 Hawke, W A, MD, FRCPCan Assoc Prof
 Rhodes, A. J., MD, FRCPEd Assoc Prof
 Reed, T E, BA *Calif.*, PhD *Lond.* Assoc Prof
 Bain, H W., MD, FRCPCan Asst Prof
 Keith, J D, MD Asst Prof
 Edwards, H E, MB Asst Prof
 McNaughton, G A, MD Asst. Prof
 15 Clin Teachers, 1 Res. Assoc., 6 Assocs.,
 4 Res. Fellows, 2 Fellows

Pathological Chemistry

Dauphinee, J A, OBE, MA *Br Col*,
 MD PhD, FRCPCan, FRSCan
 Prof, Hd. of Dept
 Nicholson, T F, MB BSc(Med) PhD
 Goinall, A G, BA *Mt All.*, PhD Assoc Prof.
 Paul, W, BA PhD Assoc Prof
 Porter, J, BA *McM.*, PhD Lectr
 1 Demr, 3 Assocs., 3 Fellows, 2 Res Assocs

Pathology and Bacteriology

Hamilton, J. D., MD, FRCPCan
 Prof., Hd. of Dept of Pathol
 Greey, P. H., MD BSc(Med)
 Prof, Hd. of Dept of Bacteriol
 Barrie, H. J., BM BCh *Oxon.* Prof
 Olszewski, J, MD *Wilno & Freib.*
 PhD *McG.* (Neuropathol) Prof
 Donohue, W L, MA MD Assoc Prof
 Tom, Mary I., BA MB
 (Neuropathol) Assoc. Prof.

Movatt, H. Z., MD *Innsbruck*, MSc(Med)
PhD Assoc Prof
McLean, C. R., MSc *McG*, MD CM *Qu*,
FRCPCan Asst Prof
Ross, R. C., BA MD MSc *McG*,
FRCPCan Asst Prof
Anderson, W., MB ChB *Edin* Asst Prof
Brown, T. C., MD Asst Prof
Shea, S. M., BCh MSc MD *N U.I.* Asst Prof
Lampert, P., MD *Fran* Lectr
Hawke, G. H., MD Lectr
Blanchard, A. J., MD Lectr
Thompson, D. W., BA MD *Sask.* Lectr
2 Assoc., 12 Demrs., 6 Fellows, 4 Sr
3 Res Assoc., 1 Res Fellow

Pharmacology

Sellers, E. A., MD *Manit*, PhD Prof, Hd of Dept
Lucas, G. H. W., MA PhD Prof
Kalow, W., MD *Koenigsberg* Assoc Prof
Kalam, H., MD BSc PhD Assoc Prof
Schonbaum, E., ChemCand *Amt*,
PhD *McG* Asst Prof
Smith, H. W., BA MSc *W Ont*, PhD Asst Prof
Armstrong, J. B., MD, FRCP Asst Prof
2 Assoc., 1 Res Assoc., 4 Fellows, 1 Sr
Fellow, 1 Demr., 1 Asst

Physiology

Best, C. H., CBE, DSc *Lond*, *Oxon*, *Paris*,
Chc, *Laval*, *Maine* & *Northwestern*,
ScD *Camb*, MD *Amt*, *Louvain*, *Liège*
& *Tor*, LL.D. *Dal*, *Melb*, *Qu* & *Edin*,
MA, FRSc, FRSCan, FRCPCan
Prof, Hd of Dept
Haist, R. E., MA MD PhD, FRSCan Prof
Markowitz, J., MBE, MScExpSurg *Mum*,
MB PhD Prof
Monkhouse, F. C., BA *Sask*, PhD Prof
Scott, J. W., MA MD Prof
Campbell, J., MA PhD Assoc Prof
Johnson, W. H., BSc PhD Assoc Prof
Rappaport, A. M., MD *Plague*, PhD Assoc Prof
Goranson, E. S., MA *B. Col*, PhD Assoc Prof
Clarke, D. W., MSc *Alta*, PhD *Cal Tech*
Assoc. Prof.
Ashworth, M. A., MD BSc(Med) PhD Asst Prof
Sreke, O., MD *Bratislava*, MA PhD Asst Prof
3 Res Assoc., 3 Res Assts, 3 Assts, 1 Res
Fellow

Psychiatry

Stokes, A. B., CBE, MA BM BCh *Oxon*,
DCH DPM, FRCPCan Prof, Hd of Dept
Dewan, J. G., BA MD *W Ont*, PhD *Camb*,
DipPsych DPM *Lond*, MA, FRCPCan
Assoc Prof
Doust, J. W. L., BSc MB BS, FRCPCan
Assoc Prof
Jackson, Mary V., MD Assoc Prof
Boothroyd, W. E., BA *Mt All*, MD
CM *Dal* Asst Prof

Miller, A., MD DPsych Asst Prof
22 Clin Teachers, 13 Assoc., 1 Res Asst

Radiology

Singleton, A. C., MBE, MD, FFR,
FRCPCan Prof, Hd of Dept
Ash, C. L., BSc *Alta*, MD DRad Prof
Hall, M. M. R., MD, FFR Assoc Prof
Munn, J. D., MD *W Ont*, DRad Asst Prof
Shannon, E. H., MD DRad, FFR Asst Prof
Harnick, L. R., MD Asst Prof
Petras, M. Vera, MD Asst Prof
5 Assoc., 6 Clin Teachers, 1 Rad. Phys.

Rehabilitation Medicine

Jousse, A. T., BA *McM*, MD Prof, Du.
Clawford, J. S., MD, FRCPCan Asst Dir
LeVesconte, Helen P.
(Occupnl Therapy) St Lectr
(Phys Therapy) St Lectr
Pollard, Lillian Thelma M Lectr
Harland, Marguerite Lectr
Robinson, Isobel M Lectr
Brown, Miss Wilma M Lectr
Bradshaw, R. O. F Lectr
Hudson, Wilma J Lectr
2 Clin Teachers, 2 Instts, 1 Assoc

Surgery

Keigin, F. G., MA *Oxon*, MD MS, FRCS
Prof, Hd of Dept
Welsh, W. K., OBE, MB, FRCS, FRSCan Prof
Jaud, R. C., FRCS, FACS Prof
Farmer, A. W., MBE, MD, FRSCan Prof
Associate Professors
Mitchell, D. R., BA MD MS, FRCS, FRSCan
Botterell, E. H., OBE, MD *Manit*, MS,
FRSCan
Dewar, F. P., MD, FRSCan, FRCS
Gordon, S. D., MB MS, FRSCan, FACS
Bigelow, W. G., BA MD MS, FRSCan, FACS
MacDonald, I. B., MD MS, FRSCan, FACS
Tovee, E. B., MD MS, FRSCan, FRCSed
Keith, W. S., MBE, BA MB
Thomson, S. A., MD
Mills, J. R. F., MD MS, FRCSed, FRSCan
Abelhart, C., MD MS

Assistant Professors

Carscadden, W. G., MB BSc(Med), FACS
Russell, J. L., MD, FRSCan
Spoonce, C. M., MD *Manit*, FRSCan, FACS
Watson, C. H., MD, FRCSed, FRSCan
White, A. W. M., MB BSc(Med), FRCSed,
FRSCan
Delarue, N. C., BA MD MS, FRSCan, FACS
Mustard, W. T., MBE, MD MS, FRSCan,
FACS
MacIntosh, D. L., BA BSc MD CM *Dal*,
FRSCan

Norman, H. R. C., MD, FRCS, FRCS(Can)
21 Assocs., 32 Clin. Teachers, 6 Fellows,
4 Resident Fellows, 19 Res. Fellows,
1 Res. Assoc.

Therapeutics

Gardiner, W. J., MB, MRCP, FRCPCan
Asst. Prof.
Jousse, A. T., BA *McM*, MD
2 Clin. Teachers, 3 Assts., 1 Res. Fellow
Asst. Prof.

CONNAUGHT MEDICAL RESEARCH LABORATORIES

Ferguson, J. K. W., MBE, MA MD, FRSCan
Dir.
Defries, R. D., CBE, MD LLD *Sask*, DPH
Consultant
MacLean, D. L., OBE, MD BSc(Med) DPH
Assoc. Dir.
Moloney, P. J., OBE, MA PhD, FRSCan
Asst. Dir.
Orr, M. D., OBE, BA
Asst. Dir.
Brown, M. H., QBE, MD BSc(Med) DPH
Asst. Dir.
Fisher, A. M., MA PhD
Asst. Dir.
Wilson, R. J., MA *Br Col*, MD DPH
Asst. Dir.
Allen, K. E., BA, FCIS Financial Administrator
Boyd, I. W., MSc *Qu*
Supt.
18 Res. Assocs., 3 Res. & Clin. Assocs.,
21 Sr Res. Assts., 9 Res. Assts.

ONTARIO COLLEGE OF EDUCATION

Diltz, B. C., MA Hon LLD *Qu*
(Engl. & Hist.) Prof.
Phillips, C. E., BA DPæd
(Educn.) Prof.
Skinner, A. F., BSc PhD *St And*,
MA *St And & Col*.
Prof.

Educational Methods

Diltz, B. C., MA Hon LLD *Qu*
(Engl. & Hist.) Prof.
St John, Helen B., MA
(Mod. Langs.) Prof., Supervisor of
Women Students
Bryans, Helen L., MA *Col*, BA
(Phys. & Health Educn.) Prof.
Dadson, D. F., BA BEd
(Educn.) Prof.
Dean, Charlotte R., MA *Col*, BA
(Home Econ.) Prof.
Petrie, P. A., BA BPæd
(Maths) Prof.
Phillips, R. D., BSc *New Br*, MEd
(Vocational Subjs) Prof., Dir. of Vocational
Trg. and Indust. Arts &
Crafts
Tait, G. E., BA *W Ont*, BPæd EdD
(Elem. Educn.) Prof.
Flower, G. E., MA *McG*, EdD *Harv*.
Prof.
Haig, A. P., BA
(Music) Prof.
Louden, A. H., BA *Qu*, BPæd
(Sci.) Prof.
Taylor, B. C., MA
(Classics) Prof.
Farmenter, M. D., MA
(Guidance) Dir. of Vocational Guidance
Centre

Passmore, J. H., BA *McM*, BPHE BEd
(Phys. & Health Educn.)

Associate Professors

Ratz, Ruth E., BA
(Home Econ.)
Tacon, P. H., BPæd MA
(Art)
Carlisle, J. S., BA BPæd
(Geog. & Hist.)
Seggie, A. P., BA
(Commnl. Subjs)
McMaster, R. J., BA BEd
(Engl.)
Spry, J. C., BSA MEd
(Indust. Arts)
Frizzell, A. W., BASc
(Vocational Subjs)

Assistant Professors

Bergey, W. E., BA *McM*
(Maths)
Casson, R. G., BSc *W Ont*
(Sci.)
Life, J. R., BPHE
(Phys. Educn.)
Lockhart, A. D., MA *Qu*
(Hist.)
MacDonald, J. W., BA *Car*
(Engl.)
MacLean, W. B., MA *McM*
(Maths.)
Emerson, E. P., BA
(Indust. Arts)
Luther, G. T. H.
Lecturer
McLachlan, A. T., BA

Educational Research

Jackson, R. W. B., BA *Alta*, PhD *Lond*.
Prof., Dir.
Fowler, H. M., BA *McG*, EdD *Harv*
Prof.
Pitt, C. C. V., BA *Qu*, MA PhD *Col*,
BPæd
Prof.
Dobson, G. A., BA BAcc *Sask*, BPæd
Asst. Prof.
Fleming, W. G., BA *Qu*, EdD
Asst. Prof.
Rideout, E. B., BA *Mt All*
Asst. Prof.
Hobday, Kathleen M., MA
Lectr.
Flowers, J. F., BPHE EdD
Lectr.
Savage, H. W., BA *Manit*, MEd
Lectr.
3 Instrs.

Library School

Bassam, Bertha, BA *Qu*, BLS *Pratt*, MS *Col*
Prof., Dir.
Silverthorn, Mary E., BA *Alta*, BSc in LS
MA *Ill*
Assoc. Prof.
Murray, Florence B., AMLS *Mich*, BA
Assoc. Prof.
Ball, Katharine L., MA *Oxon*, BA BLS
Assoc. Prof.
Cockshutt, Margaret E., BA BLS
Lectr.
1 Instr.

University of Toronto Schools

MacMurray, W. B., BA BPæd
Headmaster
22 Instrs.

UNIVERSITY EXTENSION, Division of

Williams, D. C., BA *Manit*, MA PhD
Dir.
Assoc. Dir.
Asst. Dir.
Asst. Dir.
Milner, Dorothy de F.
Asst. Dir.

ADMINISTRATIVE AND OTHER STAFF

Asst Dean & Sec (Fac of Arts & Sci). W D Foulds, BA Asst Dean & Sec (Fac of Appl Sci. & Engin.) W S Wilson, ED, BASc Asst Registrar & Dir of Admissions A. R. Kilgour, MA Asst Registrar & Dir of Student Financial Aid. F C Passy Dir of Alumni Affairs J C Evans, BA Dir of Information. K S Edey Dir of Development R J Albant, Dir of Graduate Register C G. M. Grier, ED, MA Warden of Hart House J. McCulley, MA Dir of Univ Health Service. G E Wodehouse, MC,

MD, FRCP Asst Dir of Univ Health Service (Women). Frances H Stewart, BA MD Dir of Placement Service J K Bradford, OBE, MASC Dir of Athletics & Phys Educn (Men) W A Stevens, BS Dir of Athletics & Physical Educn (Women) Zerada Slack, BA Gen. Sec Treasurer of Students' Admn Council E A Macdonald, BA Dir of Hart House Theatre. R S Gill, MA Dir of Univ of Toronto Press M Jeanneret, BA

COLLEGES OF THE UNIVERSITY

ST. MICHAEL'S COLLEGE, in the Faculty of Arts of the Univ., see p. 359.

TRINITY COLLEGE, in the Faculty of Arts of the Univ., see p. 361

UNIVERSITY COLLEGE (tel [Registrar] WA

3-6611) Founded 1853 Provides courses leading to BA, BCom and BSc of Univ of Toronto Principal—M St A Woodside, MA Oxon, BA Registrar—D M. Hayne, MA PhD

VICTORIA COLLEGE, in the Faculty of Arts of the Univ., see p. 363

FEDERATED UNIVERSITIES

UNIVERSITY OF ST. MICHAEL'S COLLEGE, see p. 359

UNIVERSITY OF TRINITY COLLEGE, see p. 361
VICTORIA UNIVERSITY, see p. 363.

FEDERATED COLLEGES

KNOX COLLEGE, WYCLIFFE COLLEGE and EMANUEL COLLEGE. Teachers giving instruction in Univ. courses (*Religious Knowledge*): (1) Knox—Rev J S Glen, MA PhD DD ThD, Principal, Rev. D. K. Andrews, MA PhD, Prof (2) Wy-

cliffe—Rev Canon L Hunt, BA MTh DD, Hon. DD Trin Coll Tor, Principal, Rev. T A M Barnett, MA, Prof (3) Emmanuel—For Staff, see under Victoria Univ., p. 363

AFFILIATED UNIVERSITY

YORK UNIVERSITY

Incorporated 1959

Postal Address. 2275 Bayview Avenue, Toronto 12, Ontario, Canada

Telephone: 487-5111

Officers of Administration Chancellor—Air-Marshal W A. Curtis, CB, CBE, DSC, ED, LLD W Ont President—M. G. Ross, Hon DCL Acad, EdD Col., MA Comptroller and Secretary of Board of Governors—W W Small, MA Col, BCom Assistant to President—A. C. Johnson, MA Br Col, PhD Purdue Registrar—D S. Rickerd, MA Oxon Librarian—D G Lochhead, BLS McG., MA Assistant Librarian—Lorna D. Fraser, MA Yale, BLS Dir of Physical Plant—J K Armour, BASc

General Information. York Univ., incorporated in 1959, admitted its first students in Sept. 1960. The univ. takes its name from York County, Ont.,

in which it is located, and from the original name of the city of Toronto. For a minimum of 4 yrs., the univ. is affiliated with the Univ. of Toronto. During the period of affiliation it offers a curriculum in the general (3-yr) course in arts & sci (for BA of Univ. of Toronto) Fees (1961-62): \$500 (incl registration, tuition, library, lab, exams, degree, athletics, health service, student union and student orgns).

Teaching Staff

CHEMISTRY Asst. Prof. O R Lundell, BA Qu, PhD MIT

CANADA

ECONOMICS Asst Prof C D Goodwin, BA McG., PhD Duke

ENGLISH Assoc Prof H N Maclean, MA PhD Asst Prof D G Lochhead, BLS McG, MA Lectr. Mrs Clara Thomas, MA W Ont

FRENCH Asst Prof L J. Pronger, MA B Col., DUParis, PhD Havv. Lectr G D Jackson, MA

GEOGRAPHY Prof G Tatham, MA Luv, PhD Clark

HISTORY Prof E W McInnis, MA Oxon, LLD Dartmouth Lectrs J J F Bruckmann, MA, D S Rickerd, MA Oxon

MATHEMATICS Prof I R Pounder, PhD Chic., MA Asst Prof Alice W Turner, MA McG, PhD

PHILOSOPHY Lectrs: J D McFarland, MA; L Rubinoff, MA

POLITICAL SCIENCE Assoc Prof D V Verney, MA Oxon, PhD Luv Asst Prof. D Smith, MA Blatt Oxon

PSYCHOLOGY Lectrs N S Endler, MSc McG, PhD Ill (also Res Assoc in Psychol), V Sernat, MS Yale, BA

RUSSIAN Lectr G Harjan, MA Calif

SOCIOLOGY Prof J R Seeley, AB Chic. Assoc Prof R J Coughlin, MA PhD Yale

ZOOLOGY Asst Prof C D Fowle, MA B Col., PhD

STUDENT NUMBERS (1960-61) 70 full-time students in 1st yr

AFFILIATED COLLEGES

ONTARIO AGRICULTURAL COLLEGE

Established 1874

Postal Address: Guelph, Ontario, Canada

Telephone: Tr 4-4120

Officers of Administration President—J D MacLachlan, BA Qu., AM PhD Harv President Emeritus—W R Reek, MBE, LLD W Ont., BSA. Principal, Macdonald Institute (Home Econ.)—Margaret S. McCready, PhD Aberd, BA. Registrar—H W Pettipiece, MEd Corn., BSA. Bursar—L Z O'Neil Dir. of Public Relations—J A. Eccles, BSA Dean of Men and Student Counsellor—I A White, MS Mich State, BSA Affiliated Officer Dir. of Extension Liaison, Ontario Dept. of Agric.—E. I. McLoughry, BSA.

General Information. The main divisions of the coll are agric. and home econ. Courses in agric. associate dipl., 2 yrs., BSA degree, 4 yrs., summer sch. for public and high sch. teachers, also short courses. Research and investigation form an important part of the work. Facilities are also available for grad. work. MSA degree, 1 or 2 yrs. Courses in home econ. at Macdonald Institute; dipl. course, 1 yr., degree course (BHSoc), 4 yrs.

Tuition fees—Degree course students resident in the Commonwealth, in all yrs., \$250 p a; degree course students from outside the Commonwealth, in all yrs., \$350 p a, dipl. course students resident in the Commonwealth, \$25 p a, dipl. course students from outside the Commonwealth, \$100 p a. Contingency fees, all courses, \$10 p a.

Rooms for over 650 students, men and women, on college campus Bd and room, \$12.50 per wk.

Teaching Staff

(Hds of depts. & other full-time teaching officers of professional rank)

AGRICULTURAL ECONOMICS Prof, Hd. of Dept D R Campbell, BA Oxon & Tor Profs. S H Lane, BSA MSc Sask, M A MacGregor, MSA PhD Corn., BSA Assoc Profs F O Sargent, BA Colby, PhD Wis., G I Trant, MS PhD Mich. State, BSA, P A Wright, BSc(Agr) McG, MS Mich State Asst. Profs. R G Marshall, MS Mich State, BSA, D H Plaunt, BSc(Agr) McG, MS Kentucky State, A C Robertson, BSA; J W. L. Winder, BComm MA PhD Chic Lectr W M Braithwaite, BA W Ont., CA

ANIMAL HUSBANDRY. Prof, Hd of Dept G E Rathby, BSA. Prof.: J C. Rennie, MS PhD Iowa State, BSA Assoc Profs. R H. Ingram, MNS Corn., PhD Penn State, BSA; G K Macleod, MS Colorado, PhD Calif., BSA, M W Staples, MS Iowa State, BSA, T D Burgess, PhD Nott, MSA Asst Profs R P Forshaw, BSA B. Col., MSc McG, W. O Kennedy, BSA, J B Stone, PhD Corn., MSA

APICULTURE. Prof, Hd of Dept and Provincial Apiarist G F Townsend, MSA. Assoc. Prof. R. W. Shuel, PhD Ohio State, MSA. Asst. Profs.: P W Burke, BSA, Asst Provincial Apiarist; M. V. Smith, PhD Corn., MSA.

BOTANY. Prof, Hd of Dept F H Montgomery, MA *McM* Profs R O Bubby, BSA *MSc Sask*, PhD *Iowa State*, B. H. MacNeill, BSc *Acad*, PhD. Assoc. Profs. H M Dale, MA PhD, C B Kelly, MS *Mich. State*, BSA, C M Switzer, PhD *Iowa State*, MSA Asst Profs G L Barron, BSc *Glas*, PhD *Iowa State*, MSA, D M Brntton, BA *Tor*, PhD *Virginia*, L V. Busch, CD, PhD *Wis*, MSA, S G Fushtey, BSc(Agr) *MSc Alta*, DIC, PhD *Lond.*, R T Ruddell, MA *McM*

CHEMISTRY Prof, Hd of Dept. R S. Brown, MA *Qu.*, PhD *McG.* Prof. D Waghome, PhD *Mich State*, BSA Assoc. Profs.: L A Birk, MS *Mich.*, BSA, FCIC, W H. Brown, MA PhD, FCIC, R W F Hardy, MSc PhD *Wis.*, BSA Asst Prof J R. Rothwell, BSA

DAIRY SCIENCE Prof, Hd. of Dept: D M Irvine, MSc PhD *Wis.*, BSA. Prof A M Pearson, MSc *Iowa State*, BSA Assoc Profs: F W Hamilton, BSA, D H Bullock, PhD *Wiv*, MSA Asst Profs. D A. Arnott, BSA *Manit*, MSc *Minn*, PhD *Penn State*, D A Biggs, BSc *Sask*, MSA, A G Leggett, MSA

ENGINEERING SCIENCE Prof, Hd of Dept C G E Downing, BE *Sask*, MSc *Iowa State* Profs. H D Ayers, BE *Sask.*, MS *Wash State*, D R Patte, BSc PhD *Glas.*, J R Scott, BSA, F H Theakston, BSc *Acad*, BE(Civil) MIE N.S.T.C Assoc Profs W. K Bilanski, MS PhD *Mich State*, BSA, S. H Collins, MA, F R Hore, MS *Mich State*, BSA, J G F. Morton, BSc *Dal*, BE N.S.T.C Asst Profs. D E. Clark, BSA, R W Irwin, MS *Iowa State*, BSA; J D Lacey, MASC, J H A Lec, BSc *Sask.*, J Pos, MSA, P. H Southwell, E G Webb, BSA, D F Witherspoon, MS *Mich State*, DipHydrEng *T.H Delft*, BSA.

ENGLISH Prof, Hd of Dept. A. M. Ross, MC, MA *Qu.* Assoc Prof: D A Riggs, BA *W. Ont*, MA Col Asst Profs.: W Carpenter, MA *McM*, J P Hailey, BA *Qu.*; M A King, BA *W Ont*, MA *McM*, H V Weekes, MA *Alta*

EXTENSION EDUCATION. Prof., Hd. of Dept. N H High, BSA MS PhD *Corn.* Prof. H. W. Caldwell, BSA MSc(Ed) *Corn.*, PhD *Oregon*. Asst Prof R W Dent, MA

FIELD HUSBANDRY. Prof, Hd. of Dept D N Huntley, PhD *Iowa State*, MSA Profs.: G. E. Jones, MSA, W E Tossell, PhD *Wis.*, MSA Assoc. Prof. R S Fulkerson, MSA Asst Profs G W Anderson, MSA, B R Christie, PhD *Iowa State*, MSA; E E. Gamble, PhD *Iowa State*, MSA, E Reinbergs, BAgron *Jelgava*, PhD *Manit*, MSA, B E Twamley, BA *Qu.*, MSc PhD *Sask*, BSA, W H Waddell, BSA *Manit*, MS *Minn*, J E Winch, PhD *Corn.*, MSA, W S Young, PhD *Corn.*, MSA

HORTICULTURE Prof, Hd. of Dept. R. J. Hilton, BSc(Agr) *McG*, PhD *Lond* Prof

E. W Franklin, MSA. Assoc Profs: R Goodwin-Wilson, BSA; T. O Graham, MS *Minn*, BSA Asst. Profs M H Dickson, BSc(Agr) *McG*, MS PhD *Mich State*, W. D. Evans, BSc(Agr) MSc *Alta*; C. E McNinch, BSA, J C Taylor, E Terasmae, DAgron *Tartu*, B J E Teskey, MSA, H Tieszen, MS PhD *Mich State*, BSA, A Zitnak, IngAgr *Bratislava*, MSc PhD *Alta*

MICROBIOLOGY Prof, Hd of Dept E. H Garrard, MSA Profs.: F E. Chase, PhD *McG*, MSA; L A McDermott, MSA, M L Wright, MSA. Assoc. Profs G. W. Anderson, MSc *Dal*, PhD *Texas Agric.*, BSA, K F. Gregory, BSA *Br. Col.*, MSc PhD *Wis.*, Asst Profs. J. A. Carpenter, CD, MSA; C. T Coike, MSc *W Ont*, PhD *Rutgers*, J D. Cunningham, MSA, R J Douglas, PhD *Mich State*, MSA, N A Epps, MSA, R A Johnston, MSA, D C Jordan, PhD *Mich State*, MSA; J B Robinson, MSA; R. E Smith, MSA

NUTRITION. Prof, Hd of Dept: H D. Branson, MA PhD, FCIC. Assoc Profs.: E V. Evans, MA *W Ont*, D C Ehl, PhD *Minn*, MSA, I Motzok, MSA PhD. Asst Profs: D Arthur, MSA, K J W Jenkins, BSc(Agr) *McG*, MSc *Sask*, PhD *Wis.*; I. R Sibbald, BSc *Leeds*, MSc PhD *Alta*

PHYSICAL EDUCATION Assoc. Prof.: W. F. Mitchell, BSA.

PHYSICS AND MATHEMATICS Prof, Hd of Dept E B MacNaughton, MA PhD Prof. G C Ashton, MSc *McG*, PhD *N Carolina State*, BSA Assoc Profs. R S Gage, PhD *Iowa State*, MSA, J R Stevens, MA PhD. Asst Prof R H Stinson, MSA PhD *W Ont*

POULTRY SCIENCE Prof, Hd of Dept J R Cavers, MS *Minn*, BSA Profs F. N Jerome, PhD *Corn.*, MSA, S J Slinger, PhD *Corn.*, MSA; E. S Snyder, MS *Wis.*, BSA Assoc. Profs J H Pettit, MSA, C M Winget, BA *San Francisco State*, PhD *Calif* Asst Profs: E C. Hunt, MSA, C M Huntsman, BSA; H L Orr, MS *Penn State*, BSA, J P Walker, MS *Penn State*, BSA

SOIL SCIENCE Prof, Hd of Dept N R Richards, MS *Mich State*, BSA Profs B. C Matthews, AM *Missouri*, PhD *Corn.*, BSA; F F. Morwick, MSA, FCIC. Assoc Profs T J Heeg, MSA, J W Ketcheson, MS PhD *Ill.*, BSA; L R Webster, MS *Corn.*, BSA, A L Willis, MS PhD *Wis.*, BSA. Asst Profs. W T. Ewen, MSA, K. M King, MS PhD *Wis.*, BSA, T H Lane, MSA; A. F MacKenzie, BSA MSc *Sask*, PhD *Corn.*, M H Miller, MS PhD *Pndue*, BSA, R W. Sheard, MSA *Sask.*, MSA (on leave); J A Smith, MSA

ZOOLOGY Prof, Hd of Dept W E Hemming, PhD *Corn.*, BSA Profs H W Goble, MS *Iowa State*, BSA, Provincial Entomologist, R H Osburn, MS *Minn*, BSA, FAAAS Assoc Profs. A de Vos, MS PhD *Wis.*, S. E. Dixon,

BA *McM*, PhD *Corn*, MSA, H R McCrummon, BA *McM*, PhD, A J Musgrave, DIC, MSc *Lond*, PhD *McM*, J G Oughton, BA PhD Asst. Profs. W C Allan, CD, MSA, D L Jackson, BSc PhD *Durh*, A G McNally, CD, MA *W Ont*; D H Pengelly, BSc *Alta*, PhD *Corn*, MSA, K Ronald, MSc PhD *McG*

LIBRARY Chief Librarian Florence G Partridge, BHSc BLS Librarian Marion D Cameron, BA MLS.

MACDONALD INSTITUTE

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HOME ECONOMICS Principal Margaret S.

McCready, PhD *Aberd*, BA. Profs Mabel Sanderson, MA *Col*, BHSc, Mary E. Singer, MS PhD *Iowa State*, BHSc Assoc Profs Edyth L. Bray, MS *Manit*, BHSc, Olive M Wallace, MS *Corn*; Grace C Frank, MSc *Montr*, BA Asst Profs Louisa E. Brill, BA, G R Couling, Lila E Engberg, BSc *Alta*, MS *Iowa State*, Eleanor M Sanford, BSc BEd *Alta*, MA *Mich State*, R Saraya, MSc *Mys.*, MA *Calif.*, MS *Col*, Helen E M Stewart, BA

STUDENT NUMBERS (1960-61) Ontario Agric Coll., 870, Macdonald Inst., 253 (All students full-time)

ONTARIO VETERINARY COLLEGE

Established 1862

Postal Address. Guelph, Ontario, Canada

Telephone. TA2-2330

Officers of Administration Principal—T. L. Jones, DVM MSc *McG* Busar and Secretary—W J Beatty Librarian and Registrar—F E Gattinger, MA *Sask*, BLS *McG* Assistant—Jean McDonald, BA

General Information The coll comes under the Dept. of Agric for Ontario and is affiliated with the Univ of Toronto Students may read for the degree of DVM of the univ (5 yrs)

Teaching Staff

(Hds of depts. & other full-time teaching officers of professional rank)

ANATOMY. Prof, Hd. of Dept. J. H. Ballantyne, DVM MS.

Div of Gross Anatomy Prof, Hd. of Div. J. H. Ballantyne, DVM MS Assoc Prof B M McCraw, PhD *Mich*, MA Asst Profs H Horchen, DrMedVet *Giesen*, O. W Sack, DVM

Div. of Microscopical Anatomy. Prof., Hd. of Div. J. P W Gilman, BVSc *Syd* Asst. Profs. P. K Basrur, MSc *Mys*, PhD, P McG Mann, MSc *W Ont*

MEDICINE AND SURGERY Prof, Hd. of Dept J. A Henderson, MS *Corn*, DVM

Div of Medicine Prof, Hd. of Div: D C. Blood, BVSc *Syd* Assoc Profs J F Cote, DVM, C K H Roe, MS *Ill.*, DVM Asst Profs T. J L Alexander, MVSc, C M Fraser, BSA *Manit*, DVM

Div of Surgery and Obstetrics. Prof., Hd. of Div. F. J. Milne, DVM *Colorado*. Assoc. Prof. F. D. Horney, DVM. Asst. Prof. D. C. Pope, BVetMed *Lond*.

Div. of Animal Reproduction. Prof., Hd. of

Div. C. A. V Baiker, MSc *McG.*, DVM DVSc Assoc. Prof J W Macpherson, DVSc

Div of Small Animal Medicine and Surgery. Prof, Hd. of Div. J Archibald, DrMedVet *Giesen*, DVM MVSc Assoc Prof A J Cawley, DVM MVSc. Asst. Profs: L H. Lord, MS *Corn.*, DVM MS, P W Pennock, BS *New Hampshire*, DVM, J H Reed, DVM

PARASITOLOGY. Prof, Hd. of Dept. A A Kingscote, DVM DVSc. Assoc Profs. D J. Campbell, J K McGregor, MSc *McG*, DVM DVPH.

PATHOLOGY AND BACTERIOLOGY Prof, Hd. of Dept. D L. T. Smith, PhD *Corn*, DVM.

Div of Pathology Prof, Hd. of Div. J D. Schroder, MS *Manit*, DVM. Prof. K. V. Jubb, BVSc *Syd*, MS PhD *Corn* Assoc Profs T J Hulland, DVM PhD, B J McSherry, DVM MSA

Div. of Bacteriology Prof, Hd. of Div D A Barnum, DVM DVSc DVPH Assoc Profs N A Fish, DVM DVPH, R J. Humble, BA *McM*, DVM, K A. McKay, MA MSA DVM, M Savan, MS PhD *Wis*, DVM, C G Wills, DVM. Asst Profs. D G Ingram, PhD *Camb*, DVM MVSc, F H S Newbould, MSA

Div of Poultry Pathology Prof, Hd. of Div.: A E Ferguson, BSA DVM Asst Profs M C Connell, DVM, R B. Truscott, MSA

Div. of Zoonoses and Diseases of Wild Life Assoc Prof, Hd. of Div. L H A Karstad, DVM MS PhD Asst. Prof. T J Pridham, DVM MVSc

PHYSIOLOGICAL SCIENCES Prof, Hd. of Dept. H. G. Downie, MS *Corn*, DVM MVSc PhD.

Div of Physiology Prof, Hd. of Div H T Batt, MS PhD *Corn*, DVSc Assoc Profs A R Graham, MSc PhD *W. Ont*, C. R.

Cameron, BA MSA DVM, J. I. Raeside, BSc
Glas, MSc PhD *Miss*
Div of Pharmacology Prof., Hd. of Div
 W. T. Oliver, MSc PhD *McCg*, DVM
Div of Experimental Physiology Prof., Hd. of

Div H. C. Rowsell, DVM PhD *Minn.* Asst
 Prof. G. A. Robinson, MSc PhD *W Ont*

EXTENSION Prof. W. R. Mitchell, DFC,
 DVM DVPH Asst Prof. H. J. Neely, DVM

ONTARIO COLLEGE OF ART, 100 McCaul St,
 Toronto (tel. EM 6-4977). Principal—S. H.
 Watson.

ROYAL COLLEGE OF DENTAL SURGEONS OF
 ONTARIO, 234 St George St, Toronto (tel.
 WA 2-4552) Registrar—W. J. Dunn, DDS

GENERAL INFORMATION

There are 4 clearly defined periods in the history of the Univ of Toronto: the foundation of King's Coll and its progressive secularization, 1827-49; the Univ. of Toronto in isolation, 1850-89; federation, 1889-1905; and the period of consolidation and expansion from 1905 until the present day.

The Univ was founded in 1827 by royal charter as King's Coll. at York, as the state Univ of the province of Upper Canada, in close connexion with the Church of England. This moved other denominations to establish colls independent of King's. Victoria was established by the Methodists at Cobourg in 1841, and Queen's at Kingston by the Presbyterians in the same yr. It was not until 1843 that the work of instruction began at King's Coll: the first degrees were granted in 1844. In 1849, after a bitter controversy, King's Coll. was secularized, removed entirely from its connexion with the Church of England, and its name changed to the Univ. of Toronto.

Irrked by this secularization, the Church of England in 1851 founded its own Univ. of Trinity Coll. In 1852 the Basilian Order established St. Michael's Coll. In 1853 a further change was made in the Univ of Toronto through the creation of Univ Coll. to which was given the entire work of instruction, the Univ itself becoming merely a legislative and examining body similar to the Univ. of London then recently established. This move was prompted by the hope that the rival univs. would enter into federation, a vain hope for many yrs.

Only in the early eighties did representatives of the other colls. enter into negotiations for a scheme of federation, which was embodied in an act of the Ont legislature in 1887. In 1890 Victoria and St. Michael's entered into federation with the Univ of Toronto. Trinity Coll. was federated in 1904.

In 1905 the Ont. govt. appointed a commission to investigate and recommend action in regard to the Univ. The Univ. of Toronto Act of 1906 laid the foundation of the present constitution of the Univ. The present authority is that given by the Univ. of Toronto Act 1947 (as amended up to 1959).

Federation is confined to the fac^y of arts & sci. The fac is composed of 4 colls: University Coll., Victoria Coll., Trinity Coll. and St. Michael's

Coll., all of whose students meet the same admission and curricula requirements authorized by the senate. The financial affairs of Univ. Coll. are administered by the bd of governors of the Univ. but the other three arts colls. are autonomous instns with degree-granting powers. They administer their own financial affairs and exercise their degree-granting powers only with respect to degrees in divinity.

In addn, Knox Coll and Wycliffe Coll are theol. instns. affiliated with the Univ, but the senate exercises no control over their curricula. The situation is parallel with respect to Emmanuel Coll., the theol coll of Victoria Univ., and with respect to degrees in divinity offered by the Univ of Trinity Coll and the Univ of St. Michael's Coll.

Situated in Guelph, 65 mls. from Toronto, are the Ont Agric. Coll and Ont Vet Coll, whose students proceed to degrees of the Univ of Tor. These 2 affiliated colls. work in close co-operation with the provincial dept. of agric, which is ultimately responsible for their financial operations.

York Univ (see p. 349) opened in autumn 1960 as an affiliated instn of the Univ. of Toronto. Students attending York Univ read for degrees of the Univ. of Toronto and initial teaching in York is confined to subjs in the general arts course at the Univ. of Toronto.

CONSTITUTION The Univ. is administered by 2 sr. bodies: the bd of governors (32 members) apptd by the lt-governor in council of the province of Ontario and primarily concerned with finance, and the senate (174 members), which is the official authority on all academic matters. Senate includes 37 *ex-officio* coll. hds., deans, dirs., etc., 19 reps. of professional licensing bodies, 59 reps of the teaching fac and 59 elected members of the grad. body.

The chancellor, chairman of the bd of governor and pres. are *ex-officio* members of both senate and bd of governors. The pres is the chief executive officer of the Univ in both academic and financial areas, the chancellor, elected by a cttee. of election of 55 reps of the grads., presides at convocations and certain other formal occasions.

INCOME (1959-60). Total income (not including

federated univ. or such subsidiary organs as Royal Conserv of Music of Toronto, Ont. Coll of Educn, univ. press, Connaught med. res labs), \$20,173,250 (govt grants, 52.4 per cent, student academic fees, 21.8 per cent, gifts and grants for assisted res, 14.1 per cent, endowed income, 1.9 per cent, other sources, 9.8 per cent)

UNIVERSITY PRECINCT. The univ is in the heart of Toronto. 4 of the city's principal artises bound or cut through univ properties. The univ has acquired a 26-acre tract of land W. of St George St., Toronto, where a proposed 12-yr. programme of expansion is already under way to provide the new bldgs that will be needed as enrolment increases.

LIBRARY 1,088,452 items (incl stock of Univ Coll library and 32 deptl libraries), 3 federated univs, 202,231; 2 federated colls, 73,656, 14 other library collections, 205,122. Total of books on campus, 1,569,461 approx. The library has collections of French-Canadian lit, of Italian and Spanish belles-lettres and of 18th-cent Engl lit.

MUSEUMS Royal Ontario museum, 100 Queen's Park. Dir—T. A. Heinrich, MLitt PhD LLD. World's largest univ. museum, functions also as provincial public museum. 3 curatorial divs. with 84 pub. galleries and each with res collections and programme, reference library, service depts, etc., plus educn. div., office of information services, admin. dept. *Art & archaeol div* permanent galleries, research collections in each of Greek and Roman, nr. eastern, far eastern, European, textiles, Canadiana, and ethnl depts. Collections illustrate pre-hist., classical civilizations, mediev. and mod Europe, outstanding Chinese collection covering entire range of art and archaeol, with large Chinese library; extensive ethnl collections with emphasis on American Indian, N American archaeol collections and active res programme, Sigmund Samuel Canadiana collection housed separately at 14 Queen's Park Cresc West. *Life sci. div.* depts of mammal., ornithol., herpetol., ichthyol., invertebrates, fossil vertebrates, fossil invertebrates, each with ext. res collections and facilities. Permanent public galleries, especially noteworthy in fossil vertebrates, ichthyol. and herpetol. Important reference library. *Earth sci. div.* depts of geol. and mineral. Pub. galleries of physical and appl geol., systematic gallery of mineral., gem collection display. Extensive res collections and library. *Educn div*: conducts museum educnl. programme for Ontario schools and adult groups, film programmes, children's clubs, etc. *Office of information services* conducts pub. relations programme, audience res, museum radio and television, etc. All res. collections, libraries and museum facilities are available to res. workers.

The **PONTIFICAL INSTITUTE OF MEDIEVAL STUDIES** of St. Michael's Coll. is a grad sch of res. The fac members are members of the grad sch. of the univ. The students are registered in

the univ as working for the MA or PhD degree. They may also qualify for the licentiate (LMS) and the doctorate (MSD) degrees awarded by the inst.

The **ROYAL CONSERVATORY OF MUSIC OF TORONTO** is within the univ framework. It comprises the sch. of music and the fac of music. The conservatory main bldg, adjoining the univ campus, includes admin offices, classrooms, library, 82 studios, concert hall, recital hall and 2 lecture halls.

LABORATORIES in all the sci depts. A sub-critical REACTOR has recently been installed for the fac of appl sci & engn.

BANTING INSTITUTE with depts of pathol., bacteriol., med., surg., obstet & gynecol., ophthalmol., otolaryngol., pathol chem for teaching, clin investigation and res work, sit as appl. to med.

CHARLES H. BEST INSTITUTE Dept of physiol and Banting & Best dept of med res.

INSTITUTE OF AEROPHYSICS, near Steeles Ave and Dufferin St., establd. in 1949 to train scientists and engineers in the mechanics of gases and plasmas, in the dynamics and gasdynamics of flight in the atmosphere and in space, in the design and analysis of flight structures, and for conducting res in these areas, this is the only lab of its kind in Canada.

COMPUTATION CENTRE, administered independently but associated with the dept. of physics, conducts res. in numerical analysis, scientific computing and data processing.

CONNAUGHT MEDICAL RESEARCH LABS. provide facilities for res in prev med and in related fields and for production of and supply of sera, vaccines, hormones, antibiotics and other biol. preparations that are of importance to pub. health. Farm has been extended and is now approx. 230 acres. Second farm of 300 acres has been purchased.

DAVID DUNLAP OBSERVATORY, Richmond Hill, contains a 74-in reflecting telescope which may be used either as a Cassegrain or a Newtonian, one of the largest in the world. Recent acquisitions include radio telescopes.

HOSPITALS available for clinics. Toronto (general), 1450 beds; Sick Children's, 647, St Michael's (general), 950, Western (general), 640, Psychiatric, 74, Sunnybrook (veterans), 1535, Women's Coll, 279; Wellesley, 285, Princess Margaret, 87.

FACULTIES *Arts & sci*, Prof V. W. Bladen (pol econ), dean, *med*, Dr J. D. Hamilton, dean, *law*, Prof. C. A. Wright, dean, *appl. sci. & engn*, Prof R. R. McLaughlin (chem. engn), dean, *household sci*, Prof Barbara A. McLaren, dir., *educn.* (Ontario Coll. of Educn), B. C. Diltz, dean, *for*, Prof J. W. B. Sisam, dean; *music*, Dr A. M. Walter, dir., *dent*, Prof R. G. Ellis, dean, *pharm.*, Prof F. N. Hughes, dean. **SCHOOLS.** *Grad studies*, Prof. A. R. Gordon

(chem), dean, *archit*, Prof T. Howarth, dir.; *phys & health educn*, Prof J H. Ebbs, dir.; *soc work*, Prof C E Hendry, dir.; *nurs*, Prof Nette D. Fidler, dir.; *hyg*, Prof A. J. Rhodes, dir.; *library*, Prof Bertha Bassam, dir. **INSTITUTES** *Child study*, Prof W E Blatz, dir.; *bus admin*, Prof T C Graham (pol econ), dir.; *dept. of univ extension*, Prof D C Williams, dir.; *div. of phys & occupat therapy*, Prof A T Jousse, dir.

SECRETARIES OF FACULTIES AND SCHOOLS (Arts & sci) W. D. Foulds, BA, (med) Mary L. Cassidy, BA, (appl sci & engin) W S. Wilson, ED, BAsC, (household sci.) M. Doreen Smith, MA PhD, (educn) Alice A. L. Elliott, BA, (for) D. V. Love, BSCE MF, (music) Frances M. Douglas, (grad studies) Jean E. Gordon, (dent) P. W. Millard, (pharm) Flora M. Ward, BA, (law) Joyce McClellan, (archit) S. R. Kent, BArch, (phys & health educn) Joan I. Bright, (socio work) Margaret M. Imrie, (nurs) Muriel J. Smith, (hyg) D. L. MacLean, OBE, ED, MB BS(Med) DPH; (child study) Jill Stopford, Erma Ross, (bus. admin) R. A. Montemurro

ADMISSION See Appendix III

FIRST DEGREES 3 yrs—BA (general course), BSc (general course), MusBac (music educn, general music), BPHE, 3 yrs after at least 2 yrs arts or BA—LLB, 4 yrs—honour BA, BCom, BSc, BASc, BSCE(Med), BSCE, BHSc, BSCE, BSCEPhm, BSA, BSCE (3 yrs for grad nurses), 5 yrs—BArch, DDS, DVM, 6 yrs—MD, no time limit, min. 4 yrs—BA general course (dept. of extension)

Honour BA may be taken in the following courses, with specific requirements beyond the minimum: classics, Engl. lang & lit, Latin (Engl. or Italian option), Latin (French or Gk option), mod hist (Engl option), mod. hist & mod langs., mod langs & lits, music, household econ., with only minimum requirements; and nr eastern studies, mod nr eastern studies, east asiatic studies, art & archaeol., philos. (Engl or hist option), Slavic studies (2nd-yr. course after Russian incl. in any 1st-yr. course), and a 1st-yr. course called soc and philosophical studies leading into anthropol., geog., mod hist, philos., pol sci & econ., psychol., sociol.

Honour BSc may be taken in the following courses, with specific requirements beyond the minimum: a 1st-yr. course called maths, phys., chem leading into maths & phys., phys & chem., phys & geol., chem., a 1st-yr. course called science leading into biol., food chem., geog., geol scis., physiol & biochem.

A student who has already graduated in the fac of arts, med or sci of a Canadian or other recog. univ may complete the course in dent. in 4 yrs instead of 5, provided he has covered certain prescribed subjects during his undergrad course, and persons holding an LDS obtained in Gt. Britain or Ireland registrable by the Dental Bd of the U.K. may complete the course in 2 yrs; and persons who hold a univ. degree in dent

obtained from an approved univ in Gt. Britain, Ireland or Australia may be admitted to the fac. of dent. without further exam., and to final DDS exams on completing 1 full session in the fac. of dent.

The BSCE(Med) may be conferred for sp. work or investigation as a grad. degree and in certain circumstances for an extra yr's work as an undergrad. Similar regns. govern the BSCE.

Attendance is required for all degree courses. Correspondence or evg. courses may not be used for credit toward a degree in the univ., except the general course (dept. of extension). Only the BA degree through the general course (dept. of extension) may be earned by attending summer day and winter evg. classes. The MA, in Engl. only, and the MEd may be earned through summer sessions.

HIGHER DEGREES open to grads. in arts or sci. of any univ. or coll. approved by the sch. of grad. studies.

1 yr. after BA—BLS, BSW.

The MA, obtainable by approved course of grad. study extending over 2 yrs. or in the case of a BA in an hon. course, 1 yr., may be taken in anat., anthropol., appl. maths, art & archaeol., astronomy, biochem., bot., chem., classics, east asiatic studies, econ., educn. theory, Engl., food chem., geog., geol. scis., Germanic langs. & lits, hist., household sci., maths, mathl. stats., med biophys., microbiol., nr. eastern studies, nutrition, pathol. chem., pathol., pharmacol., philos., phys., physiol., pol. sci., psychol., pub. admin., pub. health, romance langs. & lits., slavic studies, social, zool.

The PhD, open to a grad. in arts or sci. or appl. sci. or dent. of this or another recog. univ. by pursuing in the Univ. of Toronto an advanced course of study for 3 yrs., exemption from 1 of which may be given in consideration of the candidate having already pursued a master's course for 1 yr. A thesis embodying the result of an original investigation is required. The PhD may be taken in almost any subj. in which a master's degree is available and, in addition, in aeronaut. engin. & aerophys., chem. engin. & appl. chem., dent., electr. engin., mech. engin., metall. engin.

MBA, by approved course of grad. study extending over 1 to 2 yrs.

MS obtainable after 3-yr. course open only to grads. in med. of a recognized univ.

MASc may be obtained by a BASc or BSc grad. of this univ. or one who holds an equivalent degree from some other univ. who pursues a course of advanced study in the fac. for 1 yr., presents a satisfactory thesis and passes such exams. as may be prescribed. The MASc may be taken in aeronaut. engin. & aerophys., appl. geol., chem. engin., civil engin., electr. engin., geol. scis., mech. engin., metall. engin.

MArch may be obtained by one who holds the degree of BArch or BASc, or an equivalent degree, under the same conditions as the MASc degree.

MSCE is open to candidates who have obtained

the BScF or equivalent degree. The course normally requires 2 yrs. if by exam, 1 yr. if by thesis.

BEd is open to candidates holding a univ. degree acceptable to Ont. Coll. of Educn, and a cert as teacher valid in one of the provinces of Canada and issued after a regular course in an approved trg sch. or the equivalent of such cert and course of trg. The degree is awarded to those who supplement their professional trg by attendance, after successful experience, at a summer session and complete work assigned. MEd is open to candidates who hold the BEd degree or equivalent standing. Requirement for the degree is completion of work assigned during attendance at 1 regular session or 3 summer sessions, although students of proven ability may obtain permission to write a thesis in place of the last 2 of the 6 units of instructn. ordinarily required. The EdD is open to holders of the MEd who qualify as candidates by their standing on selective tests, 1 regular session of course work and a major thesis, completed subsequently, are required.

MLS, 1-yr. course open to holders of BLS or equivalent.

MSW (master of social work) is open to grads who have obtained the BSW degree or equivalent. The DSW is open to holders of the MSW.

MSA is open to grads who have obtained the BSA degree or equivalent.

MScD is open to grads. of the fac. of dent. of Univ. of Toronto or those with equivalent standing. It involves at least 2 yrs. work.

MScPhm (master of sci. in pharmacy), open to holders of BScPhm, or equivalent degree, who pursue advanced course of study and submit satisfactory thesis (Normally 2 academic sessions).

MVSc or DVSc is open to grads. who have obtained BVSc or DVM degree or equivalent.

MusDoc is open to a MusBac and MusM of this or another univ. who had received bachelor standing at least 2 yrs. prior to registration or master standing at least 2 yrs. prior to registration.

MusM (master of music) may be obtained by those holding degree of MusBac or equivalent after 2 academic sessions of advanced work.

LLM may be obtained by an LLB grad. of the univ. or an approved univ., of at least 1 yr's standing, who passes the prescribed exams and presents a satisfactory thesis. The DJur is open to candidates who have obtained LLM or equivalent. It requires 1 yr.'s attendance, exam and a thesis.

The univ. publishes annually a *Sch. of Grad. Studies Calendar*. All communications on this subject must be addressed to the sch. of grad. studies.

HONORARY DEGREES. LLD, DSc, DLitt, DEng, DArch, MD, MusDoc, MA

The univ. does not award **EXTERNAL DEGREES**

DIPLOMAS. For med. grads. Dipl. in bacteriol., dipl. in indust. health, dipl. in pub. health, each 8 months' academic course plus 2 to 3 months' field work; dipl. in psychiatry, dipl. in med. radiol.,

each 2 calendar yrs.; dipl. in anesth., 3 calendar yrs. Other dipl. After Ontario grade XIII or equivalent: 3 yrs., phys. & occupnl. therapy, arts as appl. to med., 2 yrs., dental hyg. Open to univ. grads.: 2 yrs., dipl. in speech pathol. & audiol.; 1 yr., vet. pub. health (DVPH), child study, town & regional planning, hosp. admin. (1 yr. acid study, 1 yr. in a hosp.), nutrition. Open to grads. in dent.: dental pub. health (DDPH) (1 yr. acid study plus field experience); dental oral surg. & anesth., orthodontics, pedodontics & periodontics (all require 8 months' theoretical, 24 months' clin. instructn.)

CERTIFICATES. After Ontario grade XIII or equivalent: min. 3 yrs., evg. course in business, open to phys. & occupnl. therapy grads with 2 yrs' experience; 2 yrs., teacher's cert. in phys. therapy, teacher's cert. in occupnl. therapy, open to grad. nurses: 1 yr., dental nursing, hosp. nursing service (general or advanced), nursing educn. (general or advanced), pub. health nursing (general), pub. health nursing (admin.) (general or advanced); open to univ. grads. in arts or sci.: 1 yr., pub. health (CPH) with or without specialization in certain subjects.

RESEARCH. Facilities for postgrad. res. or advanced study in most depts. of the univ. Details of recent res. activities included in annual *President's Report*.

TRAINING OF TEACHERS. Candidates for a cert. to teach in the secondary schs. of Ontario (awarded by Ontario dept. of educn.) must hold an approved degree and then attend the Ont. Coll. of Educn. for 1 yr. A teacher of vocational subjects need not hold a degree, but must have practical experience as a journeyman in the trade, and must attend the Ont. Coll. of Educn. for 1 yr.

FEES. Students proceeding to BA, BCom or BSc and enrolled in one of the federated arts colls. of the univ. attend lectures of univ. profs and lectrs. in fac. of arts without payment of fees to the Univ. of Toronto except for library, lab. supplies, exams and certain other incidentals (Fees for BCom, however, are not entirely paid to the fed. coll., some portion is paid to the univ.). The coll. fees, which entitle students to attend degree courses in their respective colls., are \$364 p.a. Students proceeding to BA, BCom or BSc in Univ. Coll. pay all fees to Univ. of Toronto.

Schedule of annual fees payable to the univ.: appl. sci. & engin., men \$657, women \$631; archit., men \$654, women \$629, arts (Univ. Coll.), men \$466 (BA), \$496 (BCom), \$466 (BSc), women \$447 (BA), \$477 (BCom), \$447 (BSc), arts (Victoria, Trinity and St. Michael's), men \$85 (BA), \$332 (BCom), \$95 (BSc), women \$72 (BA), \$309 (BCom), \$72 (BSc), child study, men \$334, women \$316, dent., men \$469 (pre-dent.), \$659 (dental), women \$446 (pre-dent.), \$636 (dental); dent. hyg., \$406, ext. (BA) \$85 per subject; for, men \$571, women \$558, household sci., \$447, law, men \$498, women \$475, med., men \$465 (pre-med.), \$707 (medical), women \$444 (pre-med.), \$686 (medical),

art as applied to med, men \$459, women \$436, phys & occupat therapy unde grad course, \$455, teachers' course, \$316, nursing degree course, \$370, course for grad nurses, \$440, Ont Coll of Educn teachers' courses, men \$253, women \$239, libr sch degree course, men \$239, women \$216, pharm, men \$499, women \$476, phys & health educn, men \$499, women \$480, soc work, men \$489, women \$466; music, artist dipl, and licentiate dipl, men \$452 (1st yr), \$467 (2nd yr), \$512 (3rd yr), women \$434 (1st yr), \$449 (2nd yr), \$494 (3rd yr), mus educn, general mus., men \$467, women \$444 *Other diploma courses* archit. (town & regional planning), men \$336, women \$318, med dipl in indust health \$575, dipl in med radiol \$210 (1st yr), \$95 (2nd yr), dipl in psychiatry \$95 (1st yr), \$140 (2nd yr), dipl in pub health \$575, dipl in speech pathol & audiol, men \$426, women \$408, hyg cert in pub health \$583, dipl in bacteriol \$583, dipl in hosp admin. \$658, dipl in vet pub health \$583, dipl in nutrition, \$583, dent. dipl in dent pub health \$375, sp dipl courses \$375 (1st yr) \$375 (2nd yr) *Other degree courses* BScMed \$250, BScD \$250

ACADEMIC YEAR Winter session 2 terms, from end of 3rd wk in Sept to mid-May (Michaelmas, 12½ wks, Easter, 15 wks.). The univ does not operate on a semester system.

VACATION COURSES Summer session, beginning of July to mid-Aug. sch of grad studies offers courses for credit toward degrees of MA in Engl, MEd, EdD and MLS (*See also 'University Extension', below*)

SCHOLARSHIPS Numerous fellowships, scholps., bursaries and prizes are available in the various colls and facs of the univ and sr students may obtain assistance from loan funds held by the prov. govt, the alumni assoc. of the univ, the students' admin. council and the fac of appl sci & engin

Most of the scholps., fellowships, etc., tenable in the sch. of grad studies are open to grads of Canadian univs (details in annual calendar of sch); admission scholps. are open only to students who write the Ontario grade XIII dept exams

UNIVERSITY PLACEMENT SERVICE, 581 Spadina Ave., co-ordinates and complements the employment facilities provided through the various facs and depts Offered to all grads and undergrads of the univ, it provides the means for the registration of those seeking specific full-time employment as well as supplying a centre to which employers may come and from which enquiries may be forwarded to the facs. most concerned. Pt.-time and summer employment for undergrads of the univ are co-ordinated through this dept

RESIDENCES University Coll residence for men (183), room and bd. \$625 for session, residence and bd. for women (225), at least \$585 for session; Devonshire House residence for

men (200), 100m only, at least \$235 for session; Victoria Coll. halls for 250 men and 260 women, \$575-\$650, Trinity Coll provides for 170 men (\$690) and 120 women (\$680), St Michael's (R.C.) has residences for 500 men and 400 women, \$650

UNIVERSITY NAVAL, ARMY AND AIR FORCE COMPONENTS The armed forces' offices are on the campus, at 119 St George St Academic and military trg is open to Canadian citizens or other British subjects resident in Canada, with the status of 'landed immigrants'. Under the Regular Officers Trg Plan, undergrads are paid a salary while they receive up to 4 yrs of univ educn in most facs. Compulsory tuition, dues and fees are paid by the service Release is optional 3 yrs after graduation Separate plans provide for med students who may join in their 2nd profess yr, and dent students in their 1st profess yr All the above plans provide for practical trg and one month of leave during the academic yr Militia and reserve force trg is open to undergrads under other plans

STUDENT HEALTH SERVICE The univ health service offers a partial but comprehensive med service for students, incl a required med. exam. and chest X-ray for all new students and for certain other specified groups each yr. In addn, an out-patient clinic type of service is available to students throughout the acad yr for treatment and advice. Infirmary care is offered for minor illness Extensive coverage is offered for athletic injuries, incl an out-patient surg and in-hosp treatment where required These services are covered by a specific fee paid annually by each student at the univ

STUDENTS' ADMINISTRATIVE COUNCIL directs and administers student activities and publishes, by means of a representative cttee which is the recog. official medium of communication between students and the bd. of governors Membership consists of the pres. or an elected rep of each student govt of the colls, facs, and schs. of the univ, and of *ex-officio* members without vote. a chairman, who is a grad of the univ of not more than 5 yrs' standing, 2 salaried officials (sec.-treasurer and assoc sec) who are grads. of the univ apptd by the bd. after consultation with the students' council; 2 members of the fac apptd. by the pres of the univ, and the editors of the student newspaper and the yearbook.

HART HOUSE, the gift of the Massey Foundation in memory of H. Massey, affords all the facilities of a first-rate club for male undergrads The activities of the house are administered by cttees on which sit undergrads, grads, and members of the fac The Student Christian Movement has its headquarters in the house, it also contains a wing with the athletic assocn offices, gymnasium, swimming pool, etc., in which phys. trg and recreation for male students are carried on Annual fee, \$18 Warden - J McCulley. Tel. (hall porter). WA 3-6445.

STUDENTS' UNIONS. *The Women's Union of Univ. Coll.* provides a centre for undergrad women of the coll., particularly those who live off the campus, and is extensively used by both men and women student clubs, dramatic and discussion groups. It contains common-rooms, a lecture hall used for student plays, lectures, meetings and dances, and a large dining-hall where non-resident students and women staff members lunch. *Wymulwood, the Victoria College Students' Union* was opened in 1952. A centre for student social activities, it is located at 150 Charles St. W. and is readily accessible from the main coll. bldg., the library and the residences. The cafeteria and a most attractive ground-floor common-room are reserved for women students. The other rooms are open to both men and women for meetings of clubs, societies and discussion groups.

UNIVERSITY EXTENSION. Courses leading to BA degree in evgs., summer session in arts subjects and in educn., evg. course in business leading to cert., evg. tutorial non-credit classes in liberal arts and cultural subjects during winter session; evg. non-credit classes in subjects relating to business and industry during winter session; correspondence division conducts courses for professional organizations, short refresher courses

for high sch. teachers, social workers, sch. of nursing for groups of grads and others in sp. fields, educational television courses, credit and non-credit, on local television channels.

PUBLICATIONS. *President's Report*, annual, *Calendars of colls., facs, schs and insts*, April-May, *Bulletins of the Dept. of Univ. Extension*; *Medical Bulletin* Univ. of Toronto Press books and journals, including *Can. Journal of Psychology*; *Can. Journal of Mathematics*, Univ. of Toronto Quarterly; *Can. Historical Review*; *Can. Journal of Econ. and Pol. Sci.*, Univ. of Toronto Law Journal, *The Phoenix*, *Canadian Geographer*, *Canadian Journal of Linguistics*, *Canadian Journal of Theology*. Alumni and students' magazines—*Varsity Graduate*, Univ. of Toronto Medical Journal, Univ. of Toronto Fac. of Law Review, *Kya Yaka*.

UNIVERSITY PRESS. The Univ. of Toronto Press services the printing needs of the Univ. and issues scholarly works, learned journals, serious non-fiction and reference works. The new BOOKSTORE erected in 1957, a division of the Univ. of Tor. Press, sells books, pocket books, text-books, stationery and supplies.

THE YEAR 1960

PRINCIPAL BENEFACTIONS. Internat. Nickel Co. of Canada Ltd., \$64,020 for schools, res. & bldg. funds, Ontario Heart Foundation, \$146,241.91 for scholcs and med. res., estate of D. Springer, \$308,000 for med. res. and endowed fellowships; J. P. Buckell Foundation, \$74,040 for res., scholcs and bursaries, Atkinson Charitable Foundation, \$49,000 for bursaries and med. res., W. K. Kellogg Foundation, \$41,943 for res. in hyg. and educn., Natnl. Cancer Inst., \$55,485.56 for res. in arts, med. and hyg., Ontario Res. Foundation, \$56,565.27 for res. in arts, appl. sci., etc., Ontario Cancer Treatment & Res. Foundation, \$37,136.94 for med. res.; Canadian Arthritis & Rheumatism Soc., \$35,625.10 for med. res., estate of Mabel N. Trenaman, \$44,000 for med. res., Carnegie Corporation, \$41,910 for O.C.E. Talent Fund, estate of J. Nicholson, \$53,501.41 for Dictionary of Canadian Biography, estate of V. J. McLellan, \$135,750 for med. res.

MAJOR BUILDING DEVELOPMENTS. Bldgs. completed: women's residence addition; Galbraith bldg. for fac. of appl. sci. & engin., and addition to central power plant.

RETIREMENTS. Prof. R. Farquharson (med.), Prof. A. M. Wynne (biochem.), Assoc. Prof. H. H. Hyland (med.); Assoc. Prof. E. J. Maltby (med.), Prof. M. A. Cox (prev. dent.); Prof. R. J. Godfrey (prosthodontics).

RESIGNATIONS. C. F. Confort (art & archaeol.), A. R. Gordon (chem.), R. R. McLaughlin (chem. engin.); W. A. E. McBryde (chem.); J. A. McIntyre (univ. extension), G. Tatham (geog.);

A. J. Coleman (maths); M. G. Taylor (pol. econ.), D. C. Graham (med.), E. Schonbaum (Banting & Best dept. of med.), D. G. Kilgour (law), D. Grant (Engl.), A. W. Lund (metall. engin.), B. N. Honeyford (univ. extension); D. L. J. Bilbey (anat.), H. H. Hyland (med.); E. J. Maltby (med.); W. B. Spaulding (psychiatry), W. A. Beckett (business), M. G. Ross (soc. work), W. E. Blatz (child study), R. W. Marshall (dent.), D. F. Foley (univ. library).

DEATHS. M. F. Crawford (prof. of phys.), H. L. Humphreys (prof. of French, U.C.), M. Wallace (principal emeritus, U.C.), W. M. Treadgold (prof. emeritus, civil engin.), S. R. Crerar (prof., civil engin.), T. L. Rowe (prof., civil engin.), G. A. Cornish (prof. emeritus, O.C.E.).

HONORARY DEGREES. LLD—W. P. Dobson, former dir. of res., Hydro-Electric Power Comm., H. Gaudefoy, dean of École Polytechnique, Montr., P. G. Hoffman, managing dir., U.N. Special Funds, J. H. Parkin, founder of National Aeronaut. Est.; J. B. Stirling, chancellor, Qu.

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	8483	2335
Women	3659	1147
Total	12,142	3482

Distribution by Faculties *Appl sci & engin*, 1698, *archit*, 196, *arts*, 7222, *child study*, 23, *dent*, 545, *educn*, 720, *for*, 97, *household sci*, 23, *hyg*, 51, *law*, 132, *library*, 82, *med*, 1190, *music*, 132, *nursing*, 337, *pharm*, 386, *phys & health educn*, 177, *phys & occupnl therapy*, 190, *soc. work*, 92, *town & regional planning*, 18, *grad studies*, 1701, *univ. ext.*, 603. Total: 15,624

Included in the figures above are —

Postgraduate students, 1701.

New admissions, 3254 (undergrads only)

Students from other countries, 930 (excl grad. students) (Countries from which largest numbers came Commonwealth countries, 436; U.S.A., 301, Europe (excl U.K.), 91, Asia (excl Commonwealth), 44, Africa (excl Commonwealth), 28)

Excluded from the figures above are —

Extension, 10,098

DEGREES AWARDED (1959-60) PhD, 69, MA,

178; MCom, 49, MS, 2, MSA, 32, MVSc, 4; MSW, 38, MEd, 102, MScPhm, 3, BA, 959; BCom, 49; MD, 141, BSc(Med), 2, BSc, 456, BArch, 31, BHSc, 41, BEd, 181, BLS, 52, BScF, 14, MusBac, 20, DDS, 95, LLB, 54, BPHE, 37, BSW, 60, BScN, 36, BScPhm, 70, BSA, 85, DVM, 39

DIPLOMAS AWARDED (1959-60) Artists' (mus), 4; bacteriol, 6; child study, 10, dent. hyg, 7; dent nursing, 3, dent oral surg, 1, dent pub health (DDPH), 3, hosp admin, 10, indust health, 7, licentiate, 7, med radiol, 10, nutrition, 3, orthodontics, 3, periodontics, 1, phys. & occupnl therapy, 47, psychiatry, 16; pub. health (DPH), 19, speech pathol & audiol, 5; town & regional planning, 14

CERTIFICATES AWARDED (1959-60) Business, 95, hosp nursing service, 21, nursing educn., 17, pub health nursing advanced, 15, pub health nursing general, 75

[Information compiled as at April 1961]

UNIVERSITY OF ST. MICHAEL'S COLLEGE

Established 1958, previously established as St Michael's College, 1852

(Federated with the University of Toronto)

Postal Address Toronto 5, Ontario, Canada

Telephone WA 1-3151

CHANCELLOR—H G P F POCKOCK, DD

PRESIDENT—Rev J M KELLY, MA PhD

VICE-PRESIDENT AND REGISTRAR—Rev H. V MALLON, MA

COUNCILLOR—Rev J F MADDEN, MA PhD

PRAESES, PONTIFICAL INSTITUTE OF MEDIEVAL STUDIES—Rev L K. SHOOK, MA PhD

DEAN, FACULTY OF THEOLOGY—Rev W H PRINCIPLE, MA MSL

LIBRARIAN—Rev B J BLACK, BA DLS

BURSAR—Rev J S KELLY, BA

TEACHING STAFF

See names marked (M) in the consolidated list under Toronto Univ above

GENERAL INFORMATION

St Michael's Coll was establd. in 1852 by the Rt Rev Armand François, Comte de Charbonnel, second bishop of Toronto, and placed under the

direction of the Basilian Fathers. It was incorporated as an instn. of higher learning by the statutes of the province of Canada in 1855. In

CANADA

1881 St Michael's was affiliated, by statute of the univ. senate, to the Univ. of Toronto. In the univ. acts of 1887 and 1904 it was described as a federated theol. coll., but continued independently as a classical coll. for Catholic laymen. When the Univ. of Toronto was reorganized by the Univ. Act of 1906, St. Michael's entered the new univ. federation as an arts coll. preparing students for univ. degrees. In 1954 St. Michael's obtained independent civil establishment for its theol. sch. and in 1958 was constituted by the legislature of the province of Ontario as a univ. in federation with the Univ. of Toronto.

St. Michael's, in conjunction with the Univ. of Toronto, offers full programmes in arts, sci. and comm. at undergrad. level and, independently, in theol. and related studies at postgrad. level. The Inst. of Medieval Studies is located on the same campus.

CONSTITUTION The univ. is under the management and admin. of the collegium. The senate has power in all matters of a strictly educn. nature not assigned to another body or officer. The pres. is charged with the general oversight of the univ. as a whole.

UNIVERSITY PRECINCT The univ. is situated on Queen's Park Crescent on a site of 13 acres adjoining the campus of the Univ. of Toronto.

LIBRARY 70,000 vols.

ADMISSION REQUIREMENTS. Arts as for Univ. of Toronto (*see* Appendix III).

FIRST DEGREES (of Univ. of Toronto) BA, BCom, BSc.

HIGHER DEGREES (of Univ. of St. Michael's Coll.) At Pontifical Inst. of Medieval Studies: MSL (licentiate in medieval studies), 3 yrs. from BA, MSD (doctorate in medieval studies), 2 yrs. from licentiate. Specialization offered in hist. of canon law, hist. of Christian worship, Latin lit., medieval hist., philos., theol., vernacular lit.

Fac. of theol. STB (bachelor in sacred theol.), 3 yrs. from BA.

Higher degrees of Univ. of Toronto. MA, PhD.

FEES. Arts. tuition fees are the same as those of the Univ. of Toronto (*see* p. 356).

ACADEMIC YEAR. As for Univ. of Toronto (*see* p. 357).

SCHOLARSHIPS Admission scholps., other scholps., as for Univ. of Toronto (*see* p. 357).

STUDENT RESIDENCES Residence facilities provided for Catholic profess. students registered in the Univ. of Toronto; St. Joseph's Coll. and Loretto Coll. provide residence facilities for women students registered in the Univ. of St. Michael's Coll. Accommod. for 415 men and, at St. Joseph's Coll. and Loretto Coll., for 350 women. Fees for bd. and semi-private room, \$92 per month.

STUDENT SERVICES incl. a collegiate church and chapel, a dining-hall and a student co-operative cafeteria.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS Modernization of power plant.

RETIREMENTS Sister M. Dominica

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men . . .	740	3
Women . .	439	4
Total	1179	7

Included in the figures above are —

Postgraduate students, 102

New admissions, 490

Students from other countries, 239 (Countries from which largest numbers came: U.S.A., 219, W. Indies, 12, Hong Kong, 6)

DEGREES AWARDED (1960-61) Arts (conferred by Univ. of Toronto). BA, 118, BA (hons), 54

[Information compiled as at June 1961]

UNIVERSITY OF TRINITY COLLEGE

Founded 1851

(Federated with the University of Toronto)

Postal Address: Toronto 5, Ontario, Canada
 Cables and Telegrams Trinity College, Toronto
 Telephone: WA 3-8411

CHANCELLOR—G B STRATHY, QC, Hon LLD

VICE-CHANCELLOR AND PROVOST—Rev D R G OWEN, MA Oxon, BA PhD Tor., Hon DD St John's (Mant), KCNS & Wychffe(Tor)

VICE-PROVOST—G. EDISON, AM Col, PhD Tor.

REGISTRAR AND DEAN OF MEN STUDENTS—A J. EARP, BA Tor, MA Cinc., MLitt Camb

DEAN OF WOMEN STUDENTS AND PRINCIPAL OF ST HILDA'S COLLEGE—KATHARINE M. DARROCH, MA Camb., BD Lond.

LIBRARIAN—ELIZABETH SAUNDERS, BA BLS Tor

BURSAR—G O SHEPHERD, BComm Tor

TEACHING STAFF

ARTS

See names marked (T) in the consolidated list under Toronto Univ above

DIVINITY

[† = Part-Time]

Christian Education

Scovil, Rev. G C. C., MA Tor, DD

† Lectr

Moral and Pastoral Theology

Feilding, Rev C R., BA KCNS.,
STD General Theol Sem

Prof, Dir of Field Work

Church Music

Sidgwick, J. R L., MA MusB Camb,
FRCO

† Lectr

New Testament and New Testament
Greek

Beare, Rev F. W., BA Tor, PhD Chic. Prof

Dogmatic Theology

Fairweather, Rev E. R., BA McG,
MA Tor, ThD UTS (N.Y.)

Assoc. Prof

Ecclesiastical History and Liturgics

Smith, Rev. W. L., MA Oxon. & Tor

Assoc. Prof

Old Testament, Hebrew and
Septuagint Greek

Newby, Rev M. T., MA Tor.

Prof.

Wolverton, Rev W I., MA PhD Chic.

Asst Prof

History and Philosophy of Religion

Edison, G., AM Col, PhD Tor.

Prof. †

Owen, Rev. D R G., MA Oxon., BA
PhD Tor

Lectr

TUTORS

Darroch, Katharine M., MA Camb.,

BD Lond

Campbell, Rev W., STB General Theol. Sem.

Hicks, Rev M K., MA Tor, STB General
Theol. Sem

Homiletics

Buchner, Rev H W., BA Alta., LTh

Assoc. Prof.

GENERAL INFORMATION

The Univ of Trinity Coll was founded in 1851 by John Strachan, first bishop of Toronto, and received a royal charter in 1852. Degrees were conferred in arts, div, med and music until Trinity Coll federated with the Univ of Toronto in 1904 and restricted its work to the two facs of arts and div. As an arts coll it forms an integral part of the fac. of arts of the Univ of Toronto and all the courses of that fac are open to its students, as a theol coll Trinity maintains its own fac of div and confers the titles and degrees noted below.

CONSTITUTION The coll is governed by the corporation of Trinity Coll and its executive cttee.

INCOME (1959-60) \$767,678

FACULTIES AND DEANS Arts, C Lewis (German), div, Rev H W Buchner (homiletics)

UNIVERSITY PRECINCT The coll bldgs and men's residence form a quadrangle on Hoskin Ave within the grounds of the Univ of Toronto. St Hilda's Coll, the residence for women, is near by.

LIBRARY 47,500 vols

ADMISSION REQUIREMENTS Arts as for Univ of Toronto (see Appendix III). Div 1st degree from a recog. univ.

FIRST DEGREES (of Univ of Toronto) 3 yrs from sr matric—BA gen., 4 yrs from sr matric—BA hon, BCom. Instrucn. is given by Trinity in classics, Engl, ethics, French, German, oriental hist, oriental langs, relig knowledge, in all other

subs, whether in gen or hon courses, instrucn is given by staff of the Univ of Toronto.

HIGHER DEGREES (of Univ of Trinity College) 3 yrs after BA (or equivalent)—J.Th, STB. Trinity also confers the degrees of MTh (in conjunction with the Toronto Grad Sch of Theological Studies), ThD and DD, and (on the recommendation of the bd of examiners of the Anglican Church of Canada) the degree of BD.

RESIDENCE For men (fees, \$690) Trinity Coll, 175 students. For women (fees, \$680) St Hilda's Coll, 120 students.

FEES. Arts tuition fees are the same as those of the Univ of Toronto (see p 356), incidental coll fees, \$34.50. Div tuition, \$112.50.

ACADEMIC YEAR As for Univ of Toronto (see p 357).

SCHOLARSHIPS Eleven open admission scholps offering free tuition, awarded on basis of Ontario grade XIII, or equivalent, 2 postgrad fellowships of \$1000 for study of humanities in grad. sch of Univ of Toronto.

GRADUATE ASSOCIATION Convocation of Trinity Coll, executive sec., G. O. Shepherd, BCom.

STUDENT COUNCIL Bd of stewards (men), St Hilda's Coll meeting (women).

PUBLICATIONS *Calendars* of facs of arts and div. annually; *Trinity Univ Review*, 6 times a yr, *A History of the University of Trinity College, 1852-1952* Ed by T. A. Reed (Univ. of Toronto, 1952).

THE YEAR 1960

PRINCIPAL BENEFACTIONS P Larkin Foundation, \$90,000.

MAJOR BUILDING DEVELOPMENTS *Approaching completion* addition to men's residence, extension to library.

RESIGNATIONS A E. Barker (Engl), apptd to chair, Ill.

HONORARY DEGREES DD—Rt Rev W H H Crump, bishop of Saskatchewan, Rev L P Hunt, principal of Wycliffe Coll, Tor, Rev R. S. Rayson, principal of Canterbury Coll, Windsor, Ont.

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	343	8
Women	290	4
Total	633	12

Distribution by Faculties Arts, 600, div., 45
Total 645

Included in the figures above are —

Postgraduate students (div), 43

New admissions, 200

Students from other countries, 26 (Countries from which largest numbers came: W Indies Fed, 11, U K, 7, U S A, 5)

DEGREES AWARDED (1959-60) Arts and comm (conferred by Univ of Toronto): BA, 124, BCom, 3. Div (conferred by Univ of Trinity Coll): LTh, 9, STB, 8; MTh, 1, BD, 1.

[Information compiled as at April 1961]

VICTORIA UNIVERSITY

Incorporated 1836

(Federated with the University of Toronto)

Postal Address . Queen's Park, Toronto 5, Ontario, Canada

Cables and Telegrams . Viccollege, Toronto

Telephone 924-7101

PRESIDENT AND VICE-CHANCELLOR—Rev A B B MOORE, BA McG, Hon DD Monts & Trin Coll Tor, Hon LLD Sask & McM

PRINCIPAL, VICTORIA COLLEGE—H N FRYE, BA Tor, MA Oron, Hon DD United Coll (Manit), Hon LLD Car, Hon DLitt New Br, FRSCan

PRINCIPAL, EMMANUEL COLLEGE—Rev K H COUSLAND, MC, MA Oron, Hon DD Monts. & Knox (Tor)

REGISTRAR—F A HARE, MA Tor

LIBRARIAN—MARGARET V. RAY, BA Tor

TEACHING STAFF

ARTS (Victoria College)

See names marked (V) in the consolidated list under Toronto Univ above

THEOLOGY (Emmanuel College)

Christian Education

Guthrie, Rev J R, MA BD BED PhD Edin, STM U T S (N Y)

Prof

Philosophy of Religion and Christian Ethics

Jay, Rev. C D., MA Tor, PhD Edin, BD Assoc Prof.

Church History

Cousland, Rev K H, MC, MA Oron, Hon DD Monts & Knox (Tor)

Prof

Public Speaking

McMullen, Rev G A., BA Tor.

Prof

Homiletics and Pastoral Theology

Boyce, Rev G W, RA BD Qu, STM U T S (N Y)

Asst Prof

Public Worship

Kelly, Rev W M, MA BD Glas, STM U T S (N Y)

Prof

New Testament Literature and Exegesis

Blackman, Rev E C, MA BD Camb

Prof

Systematic Theology

Fennell, Rev, W O, BA Tor., STM U T S (N Y)

Prof

Old Testament Literature and Exegesis
Dobbie, Rev R, MA BD Glas, MTh Lond Prof

ADMINISTRATIVE AND OTHER STAFF

Bursar W C James, BA Tor Dean of Women Jessie Macpherson, MA PhD Tor, Sr. Tutor C C Love, MA Camb, PhD Tor

Accountant. K M Dinsmore, BCom Tor Supt of Buildings and Grounds F C Stokes, MA Tor

CANADA

GENERAL INFORMATION

Originally estab. as the Upper Canada Academy at Cobourg, Ont., in 1836 by charter of King William IV. Granted degree-conferring power in 1841. Facs of med, sci and law were contd. along with arts and theol until 1892, when Victoria, having entered into federation with the Univ of Toronto, moved to Toronto and agreed to hold in abeyance its power to grant degrees except in theol.; arts students at Victoria receive their degrees from the Univ of Toronto. In 1928, by act of the legislature of the province of Ontario, Victoria received an amended charter by which it continues in federation with the Univ of Toronto and in connexion with the United Church of Canada (formed in 1925 by the union of the Congregational, Methodist and Presbyterian churches in Canada), and includes within itself, under one bd. of regents and one senate, two colls, Victoria Coll. in arts and Emmanuel Coll. in theol., the latter formed by the union of the Victoria Univ. fac. of theol. with Union Theological Coll.

UNIV CAMPUS consists of 15 acres of park land, academic and residential bldgs. adjacent to Queen's Park and the Univ of Toronto campus. Facilities include an arts bldg, theol bldg, library, men's and women's residences, student union, playing field, gymnasium.

LIBRARY. 100,000 vols. Special features—Canadian verse and Tennysonianism (C C James's collections), Canadian church hist., *Erasmiana*.

ADMISSION REQUIREMENTS Victoria Coll. as for fac. of arts of Univ of Tor (see Appendix III) Emmanuel Coll. 1st degree from a recog. univ.

FIRST DEGREES (of Univ of Toronto) 3 yrs from sr. matric—BA gen.; 4 yrs from sr. matric—BA hon., BCom. Instrucn is given by Victoria Coll. in Engl., ethics, French, German, Greek,

Greek & Roman hist., Hebrew, Latin, nr. eastern hist., relig. knowledge, in all other subs., whether in gen. or hon. courses, instrucn is given by staff of the Univ of Toronto.

HIGHER DEGREES (of Victoria Univ) BD, 3 yrs subsequent to graduation in arts, ThM, full-time 2 yrs after BD, pt-time max. of 6 yrs after registration for the degree, ThD, full-time at least 2 yrs' attendance after BD, pt-time max. of 6 yrs after registration for the degree, BRE (bachelor of religious education), 2 yrs after BA or equivalent degree or 1 yr. after BD.

HONORARY DEGREES (of Victoria Univ) DD, DLittS.

DIPLOMA Theol., 3 yrs. after 3 or 4 yrs from sr. matric in arts.

FEES Arts tuition, \$364 p a, comm.: \$157 p a; incidental fees, approx \$90-\$110 p a, residence, \$575-\$620 p a. Theol. candidates for United Church ministry are not charged tuition fees for the ordinary course, BD, candidates for United Church ministry, \$35, BRE, full-time professional workers in United Church, \$35, others \$200, ThM, \$150, ThD, \$200.

ACADEMIC YEAR As for Univ of Toronto (see p 357).

RESIDENCE Victoria Univ men's residences, 89 Charles St. West (261 men), Victoria Univ women's residences, 95 Queen's Park Crescent and 140 Charles St. West (255 women).

PUBLICATIONS Emmanuel Coll. *Calendar* (July), Victoria Coll. *Bulletin* (April), *Victoria Reports* (twice yearly), *Acta Victoriana*, a students' monthly, *A History of Victoria University*, C. B. Sissons. (Univ. of Toronto, 1953).

BOOK BUREAU (coll. bookstore)

THE YEAR 1960

PRINCIPAL BENEFACTIONS Total value of all benefactions received: \$775,447.

HONORARY DEGREES DD—Rev N F Langford, editor, Westminster Sunday School Publicns, Philadelphia, Rt. Rev A J. MacQueen, moderator, United Church of Canada, Rev W. H. H. Norman, Kwansu Gakuun Univ., Japan; Rev. L. Pierce, former editor, Ryerson Press, Toronto.

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	983	72
Women	784	4
Total	1767	76

Distribution by Faculties Arts, 1657, theol., 186 Total 1843

Included in the figures above are:—

Postgraduate students, 69

New admissions, 650.

Students from other countries, 39 (Countries from which largest numbers came W Indies Fed, 18, USA, 4, Ghana, 3)

DEGREES AWARDED (1959-60) Theol (conferred by Victoria Univ) BD, 21, BRE, 3, ThM, 3; ThD, 3 Arts and comm. (conferred by Univ of Toronto) BA, 255, BCom, 20

DIPLOMAS (1959-60). Theol (awarded by Emmanuel Coll.) 24.

UNIVERSITY OF WESTERN ONTARIO*

Founded 1878

Postal Address London, Ontario, Canada
Cables and Telegrams Western, London, Ontario
Telephone London GE 9-1681

VISITOR—His Honour The Lieutenant-Governor of Ontario

CHANCELLOR—R G IVEY, QC, Hon LLD

CHAIRMAN OF THE BOARD OF GOVERNORS—Lt.-Col D B WELDON, MC

PRESIDENT AND VICE-CHANCELLOR—G E. HALL, AFC, MSA MD PhD Tor, Hon DSc Laval, Hon. LLD Assum., Qu, Madr & Tor, FRSCan

VICE-PRESIDENT—R A. ALLEN, MA Tor, PhD Chuc, Hon LLD Waterloo C

REGISTRAR AND SECRETARY OF SENATE—HELEN M B ALLISON, MA Munn

LIBRARIAN—J J TALMAN, PhD Tor, Hon LLD Waterloo U, FRSCan

COMPTROLLER AND SECRETARY OF BOARD OF GOVERNORS—R B WILLIS, MA, FCIS*

DEANS—ARTS AND SCIENCE—F STILING, BA McM, AM PhD Mich, MA (Engl), R J. UFFEN, MA Tor, PhD, Principal of Univ Coll. (Geophys), D G G KERR, BA McG, PhD Lond, Principal of Middlesex Coll. (Hist.), BUSINESS ADMINISTRATION—F W F JONES, BA; ENGINEERING SCIENCE—Lt.-Col. R M DILLON, MC, BA SM MIT, GRADUATE STUDIES—R. A. ALLEN, MA Tor, PhD Chuc. (German); LAW—Hon I. C. RAND, BA Hon DCL Mt All., LLB Harv, Hon LLD Qu., Dal., New Br., Tor & Col., MEDICINE—O H WARWICK, BA Mt All., MA Oxon., MD CM McG., MRCP, FRCPCan, COLL. OF MUSIC—C. VON KUSTER, MusBac Tor.; NURSING—R CATHERINE ALKIN, BA BN McG., MA Chuc., DEAN OF MEN—T L HOSKIN, MA Northwestern, DEAN OF WOMEN—LEOLA E. NEAL, PhD Tor, MA (Psychol)

TEACHING STAFF

[† = Part-Time]

Astronomy, see Maths.

Botany

Hickman, C. J., MSc PhD Birm Prof
 McLarty, D. A., PhD Col, BA Assoc Prof.
 Wilson, D. G., MA Qu, PhD Wis. Assoc Prof
 McKeen, W. E., PhD Tor, MSc Assoc Prof
 Cook, F. S., BA PhD Tor Asst Prof
 Walden, D. B., MSc PhD Conn Asst Prof
 Andrae, W. A., MSc PhD McG †Hon Lectr
 Richardson, L. T., MA PhD Tor †Hon Lectr
 Minshall, W. H., MSc PhD McG †Hon Lectr
 Forsyth, F. R., BA Qu, PhD Tor †Hon Lectr
 Good, N. E., BA Tor, PhD Calif †Hon Lectr
 1 Instr., 1 Preceptor, 4 Demrs

Leighton, D. S. R., DBA Harv. Assoc Prof
 Thain, D., DBA Harv Asst. Prof.
 Nicholson, J. T., MBA Harv. Asst. Prof
 Waugh, W. R., BA Asst Prof
 Lundberg, C. C., BA MBA Wash Asst Prof
 6 Lectrs, 5 Instrs

Chemistry

Pattison, F. L. M., MA PhD Camb Prof.
 Sivertz, C., BAsc Bn Col, MSc
 PhD McG Prof
 Bradley, D. C., DSc PhD Lond Prof.
 De Mayo, P., MSc PhD Lond. Prof
 Watson, J. K., MA McM., PhD Tor.,
 FCIC Assoc Prof
 Sukava, A. J., MSc Mant, PhD McG

Business Administration

Jones, F. W. P., BA Prof
 Thompson, W. A., MBA Harv. Prof.
 Taylor, J. C., BA, FCA Prof, Assoc Dean
 Ladd, D. R., DBA Harv. Assoc Prof
 Ready, R. K., MBA DCS Harv. Assoc Prof
 Wetlaufel, J. J., MBA Assoc Prof

Howell, W. C., MSc PhD Asst Prof.
 King, J. F., BSc PhD New Br. Asst. Prof.
 Graham, D. M., PhD Brooklyn Polytech, MSc Asst Prof
 Burns, J. W., MSc Qu, FCIC †Hon Lectr
 Carroll, K. K., MSc Tor, PhD †Hon Lectr

* Member of the Association of Universities of the British Commonwealth

Müller, D M., MSc *Alta*, PhD *McG*
 †Hon Lectr
 Spencer, E Y., MSc *Alta*, PhD *Tor*,
 FCIC †Hon Lectr
 Thorn, G D., MA *Qu*, PhD *McG*
 †Hon Lectr
 3 Lectrs, 9 Demrs

Classics

Ralph, J D., BA *Qu*, PhD *Chc*
 W Sherwood Fox Prof
 - Raymond, A E., MA *Tor*, PhD *Chc*
 Assoc. Prof

Gerbet, D E., PhD *Tor*, MA
 Pemberton, R E K., MA *Oxon*
 †Lectr

Economic and Political Science and Sociology

Inman, M K., BA *Acad*, AM PhD *Harv* Prof.
 Mayo, H B., MA DPhil *Oxon* Prof.
 Ivor, D., PhD *Lond*, MA Prof.
 Reubel, G L., AM PhD *Harv.* Assoc. Prof.
 Wonnacott, R. J., PhD *Harv* Asst. Prof.
 Lyon, P. V., DPhil *Oxon* Asst. Prof.
 Kelson, R N., PhD *Duke* Asst. Prof.
 Madden, J J., PhD *Camb.* Asst. Prof.
 Duncan, K J., MA *Tor* Asst. Prof.
 Petchins, S G., PhD *Lond*, MA Asst. Prof.
 McIntyre, J A., MA *Tor* Asst. Prof.
 Sansom, T R., BA *New Br*, PhD *Lond* Asst. Prof.

Engineering Science

Dillon, Lt.-Col. R M., MC, BA SM M I T Prof.
 Lauchland, L. S., MSc *Tor* Prof.
 Kearns, J. L., BSc *Tor*, PhD *Iowa* Assoc. Prof.
 Foreman, J E K., MME *Corn* Assoc. Prof.
 Poucher, M. P., DIC, MSc *Lond* Assoc. Prof.
 Emmerson, G S., MSc(Eng) *Lond* Assoc. Prof.
 Olson, A. T., MSc *Burm* Asst. Prof.
 Bulant, W., PhD *McG* Asst. Prof.
 Stewart, J W., MS *Mich* Asst. Prof.
 Chess, G F., BSc *Tor*, MEng *McG* Asst. Prof.
 Davis, W H., BSc *Tor* Asst. Prof.
 Davenport, A G., MA *Camb.*,
 MSc *Tor* Asst. Prof.
 1 Lectr., 6 Demrs

English

MacKinnon, M H M., MA PhD *Tor* Prof.
 Connon, A B., DSO, PhD *Harv*, MA Prof.
 Klinec, C F., MA PhD *Col* Prof.
 Buckley, G E., BA *Mt All*, AM *Col* Assoc. Prof.
 Atkinson, W E D., BA *Camb*, PhD *Chc* Asst. Prof.
 Graham, J W., MA PhD *Tor* Asst. Prof.
 Stratford, P C., DU *Paris*, BA Asst. Prof.
 Woodman, R G., BA *Br Col*, MA *Man*,
 PhD *Tor* Asst. Prof.
 Bandeen, Elisabeth, AM PhD *Radcliffe* Asst. Prof.

Bates, R G N., MA PhD *Tor* Asst. Prof.
 Berry, H., MA PhD *Nebraska* Asst. Prof.
 Hauser, D R., MA PhD *Johns H* Asst. Prof.
 Reaney, J., MA PhD *Tor* Asst. Prof.
 Sanborn, C E., MA PhD *Tor* Asst. Prof.
 Kelly, F M., MA PhD *Col* Asst. Prof.
 Stuling, F., BA *McM*, AM PhD *Mich.*,
 MA †Lectr
 Waterston, Elizabeth, MA *Bryn Mawr*,
 PhD *Tor* †Lectr
 4 Lectrs, 6 Assts

French, Italian and Spanish

Torrens, R. W., AM *Harv*, PhD *Corn* Prof.
 Collin, W E., L&L, *Toulouse*, MA Prof.
 Montgomery, F., DU *Paris*, MA Assoc. Prof.
 Shervill, R N., PhD *N. Carolina* Assoc. Prof.
 Bennetton, N A., PhD *Johns H* Assoc. Prof.
 Metford, J S., MA *Br Col*, DU *Paris* Asst. Prof.
 Casaubon, T J., BA *Laval* Asst. Prof.
 Creighton, D G., MA *Tor*, PhD *Col* Asst. Prof.
 4 Lectrs, 2 Instrs, 1 Asst

Geography

Pleva, E G., MA PhD *Minn* Prof.
 Packer, R W., MA *Camb* Assoc. Prof.
 Langtvet, O P., CandPhil *Oslo* Asst. Prof.
 4 Lectrs, 1 Preceptor, 13 Assts

Geology

Reavely, G H., MA Prof.
 Suffel, G G., MSc *Qu*, PhD *Stan* Assoc. Prof.
 Dreimanis, A., MSc *Latvia* Assoc. Prof.
 Winder, C G., PhD *Corn*, BSc Assoc. Prof.
 Boone, G M., MA *Brown*, PhD *Yale* Asst. Prof.
 1 Lectr, 1 Preceptor, 5 Demrs.

Geophysics

Uffen, R J., MA *Tor*, PhD Prof.
 Beck, A E., BSc *Lond*, PhD *A N U* Asst. Prof.
 Carmichael, C M., MSc PhD †Hon Lectr
 1 Demr, 2 Assts

German

Kalbfleisch, H K., MA *N.Y.*, PhD *Mich* Prof.
 Allen, R A., MA *Tor*, PhD *Chc*,
 Hon LLD *Waterloo C* †Lectr
 1 Lectr, 1 Instr

Hebrew

Beatty, R H., MA *Oxon*,
 BD *Trin Coll Tor* Lectr

History

Ferguson, W K., MA PhD *Corn.*,
 Hon. LittD, FRSCan
 J B Smallman Memorial Prof.
 Kerr, D G G., BA *McG*, PhD *Lond* Prof.
 Thomas, H M., AM PhD *Harv* Prof.
 Overton, R C., AM PhD *Harv* Prof.
 Balderston, W, MA PhD *Corn* Assoc. Prof.

Gwynne-Timothy, J R W, MA *Tor*,
DPhil *Oxon* Asst Prof.
Stockdale, W H, MA *Alabama*,
PhD N Y Asst Prof
Wilson, G A, MA *Dal*, PhD *Tor* Asst Prof
Maune, S F, MA PhD *Chc* |Lect
McLaughlin, J P, BA *Qu*, PhD *Lond* †Lect
Raymond, A E, MA *Tor*, PhD *Chc* †Lect
Talman, J J, MA PhD *Tor*,
Hon LLD *Waterloo U*, FRSCan †Lect
Hitchins, F H, PhD *Penin*, MA †Lect
1 Lectr., 1 Instt

Italian, see French**Journalism**

Wild, J L, MA *Mich*, BA Prof
Beattie, E J, BA *Manit*, BEd *Tor* Asst Prof
7 Lectrs.†

Law

Rand, Hon I C, BA Hon DCL *Mt All*,
LLB *Hav*, Hon LLD *Dal*, *New Br*,
Qu, *Tor* & *Col* Prof
Mackay, R S, LLB *Tor*, LLM *Col* Prof
Johnston, D M, MA LLB *St And*,
MCL *McG*, LLM *Yale* Asst Prof
3 Lectrs

Mathematics (Pure and Applied) and Astronomy

Magee, G. R, MS PhD *Chc* Prof.
Cole, R H, MA PhD *Wis* Prof
Wehlauf, W., AB PhD *Calif* Assoc Prof
Cross, G, MA *Dal*, PhD *Br Col* Asst Prof
Senders, J, MA *Qu*, PhD *Syr* Asst Prof
Talman, J D, PhD *Penn*, MSc Asst Prof
5 Lectrs, 1 Instt

Medicine, see below**Music**

von Kuster, C, MusBac *Tor* Prof
Cook, J., BMus *Durh*, FRCO Prof
Parlow, Kathleen Prof
Rosé, A., BA Prof
McKellar, D, MusBac *Tor* Asst Prof
Munn, H Asst Prof
Terry, E, BA BEd MMus *Tor* Asst Prof
1 Lectr

Philosophy

Johnson, A H, MA PhD *Tor*, FRSCan Prof
Bruce, J A., PhD *Lond*, MA Assoc Prof
Davis, J. W, AM PhD *Boston* Asst Prof
Henry, W C, PhD *Tor*, MA Asst Prof
Johnson, H J, PhD *Chc* Asst Prof
Robinson, P R, PhD *Lond.*, MA Asst Prof
4 Lectrs, 2 Instts

Physical Education

L'Heureux, W J, MA *Mich* Prof
Fairs, J. R., BSc AM *Col* Assoc Prof

Berzins, Mrs Elfrieda M, MM *Latvia* Asst Prof.
Yuhasz, M S, MS *Ill*, BA Asst Prof
Eynon, R B, MS *Ill*, BA Asst Prof
Pillsworth, W J, MA N Y †Lectr
2 Lectrs, 3 Instts

Physics

Forsyth, P A, MA *Sask*, PhD *McG* Prof
Brannen, E, MA *Tor*, PhD *McG* Prof
Nicholls, R W, DSc PhD *Lond* Prof
Blackwell, J H, MSc PhD Prof
Dunford, A M I A W, PhD *Tor*,
MA Assoc Prof
Fraser, P A, MSc *Wis*, PhD Assoc Prof
Tull, E H, MSc Assoc Prof
Hay, D R, PhD *McG* Asst Prof
Carmichael, C M, MSc PhD Asst Prof
Feigenson, H I S, MSc PhD Asst Prof
Allen, R L, MA *Mt All* †Lectr
2 Lectrs, 1 Instt, 9 Demos

Psychology

Turner, G, MA PhD *Tor* Prof
Neal, Leola E, PhD *Tor*, MA Assoc Prof
Wright, Mary, MA PhD *Tor* Assoc Prof
Paul, J, MA PhD *Tor* Asst Prof
Havelka, J, MA *Bino*, MSc *McG*,
PhD *Milan* Asst Prof
Schnore, M M, PhD *McG*, MA Asst Prof
5 Lectrs, 1 Asst

Russian

Ismayov, Miss Helen, BA *Moscow* Instr
2 Instts

Secretarial Science

Gillespie, Mary, AM *Col* Prof
Chapman, Miss Elaine, BA Asst Prof
Waller, Mrs Roma, AM *Col*. Asst Prof
1 Instr, 1 Asst.

Spanish, see French**Zoology**

Brown, A W. A, MBE, BScF MA
PhD *Tor*. Prof.
Battie, Helen, PhD *Tor*, MA Prof
Judd, W W, MA PhD *Tor* Assoc Prof
Scott, D M, BSc PhD *McG* Assoc Prof
Stinson, R H, BA *McM*, PhD *Tor* Assoc Prof
Bourns, T K R, MA *Br Col*,
PhD *Rutgers* Asst Prof.
McMillan, D B, PhD *Tor*, MSc Asst Prof.
Kennedy, W A, BA PhD *Tor* †Hon Prof.
Chetverka, W, BSc *Manit*, MA *Montana*,
PhD *Hav* (on leave) †Hon Lectr
Colhoun, E II, BSA *Tor*, PhD *Camb*
†Hon Lectr.
Monro, H A U, MSc *McG* †Hon Lectr
Lawrie, A H, MA *Tor* †Hon Lectr
Scott, D P, MSc *McG*, PhD *Br Col* †Hon Lectr.

CANADA

Tibbles, J. J., MSc PhD *Wis*
 Bond, E. J., BSA *Tor.*, PhD *Lond*
 O'Brien, R. D., BSc *Rdg.*, PhD
 Steele, J. E., MSc PhD *Sask*
 1 Preceptor, 8 Demrs

†Hon. Lectr
 †Hon. Lectr
 †Hon. Lectr
 †Hon. Lectr

Patterson, J. C., MD BSc(Med) *Tor.* Prof
 Murray, E. G. D., OBE, MA *Camb.*,
 FRCS Guest Prof
 Beer, C. T., DPhil *Oxon.*, FRIC Assoc Prof
 Carroll, K. K., MA *Tor.*, PhD Assoc Prof
 Plunkett, E. R., MD PhD * Asst. Prof
 Swartz, D. P., MD MSc, FRCSCan Asst. Prof
 Derrick, J. B. D., MA *B. Col.*, PhD Asst. Prof
 Rossiter, R. J., BSc *W. Aust.*, DM MA
 DPhil *Oxon.*, FRIC Hon. Lectr
 Stevenson, J. A. F., MA MD CM *McG*
 Hon. Lectr.

MEDICINE

Anæsthesia

Spoerl, W. E. G. A., MD *Fran.*,
 FRCPCan
 4 Sr Assocs., 9 Instrs

Asst. Prof

Anatomy

Skinner, H. A., MB *Tor.* Prof
 von Hochstetter, A. H. C., MD *Vienna*

Assoc. Prof
 Res. Prof.

Bartelink, D. L., MD *Amst*
 1 Lectr., 5 Instrs.

Bacteriology and Immunology

Murray, R. G. E., MD CM *McG.*,
 MA *Camb.* Prof.

Robinson, C. F., MD *Hamburg* Prof
 Campsall, E. W. R., MD CM *McG.* Asst. Prof

Fitz-James, P. C., MD PhD Asst. Prof

Duncan, I. B. R., MB ChB *Glas* Asst. Prof

Bakerspigel, A., MA *McM.*, PhD Asst. Prof

Hannay, C. L., PhD *Lond* †Hon. Lectr

1 Asst.

Biochemistry

Rossiter, R. J., BSc *W. Aust.*, DM
 MA DPhil *Oxon.*, FRIC Prof.

Stewart, H. B., PhD *Tor. & Camb* Prof.

Strickland, K. P., PhD Asst. Prof.

Heagy, F. C., PhD Asst. Prof.

McMurray, W. C. C., BSc PhD Asst. Prof.

Spencer, E. Y., PhD *Tor* †Hon. Lectr

Derrick, J. B. D., PhD †Hon. Lectr

Carroll, K. K., MA *Tor.*, PhD †Hon. Lectr

1 Lectr., 2 Assts

Biophysics

Burton, A. C., MA PhD *Tor.*, FRSCan Prof

Inch, W. R., BSc *Qu.*, PhD Hon. Lectr

1 Asst

Hospital Procedures

Aikin, R. Catherine, BA BN *McG.*,
 MA *Chic.* Lectr

Medical Ethics

Robinson, J. B. C., MD MSc †Hon. Lectr

Medical Jurisprudence

Ross, C. J. F. Lectr

Medical Research

Collip, J. B., CBE, MA PhD *Tor.*, MD *Alta.*,
 Hon MD *Laval*, Hon DSc *Alta.*, *Harv.*
 & *Oxon.*, Hon LLD *Mam.*, *Qu.*, *Alta.*
 & *McG.*, FRCPCan, FRCP, FRSCan,
 FACP, FRs Prof, Hd of Dept.

Medicine

Brien, F. S., BA MB *Tor.*, FRCPCan Prof.

Manning, G. W., MD MA PhD *Tor.*,
 FRCPCan Assoc. Prof.

Lewis, J. A., MD, FRCPCan Asst. Prof

Bartram, E. A., MD Asst. Prof

Hession, B. L., MD, FRCPCan Asst. Prof

6 Assocs., 27 Instrs., 1 Lectr., 6 Sr Teach-

ing Fellows, 1 Res Asst

Microscopic Anatomy

Barr, M. L., MSc MD, FRSCan Prof.

Buck, R. C., MD MSc PhD DPH *Lond* Assoc. Prof

Robinson, C. F., MD *Hamburg* Hon. Lectr

1 Lectr., 1 Instr., 2 Res Assts

Nursing

Aikin, R. Catherine, BA BN *McG.*,
 MA *Chic.* Dean

McDowell, Edith M., BS AM *Col* Prof

Obstetrics and Gynæcology

Kinch, R. A. H., MB BS *Lond.*, FRCSCan Prof.

Walters, J. H., BA MD, FRCSCan Asst. Prof

Swartz, D. P., MD MSc, FRCSCan Asst. Prof

Johnson, F. L., MD *Tor.*, FRCSCan Hon. Asst. Prof

3 Sr Assocs., 3 Instrs., 4 Sr Teaching Fellows

Ophthalmology

Dyson, C., MD DipOph *McG* Asst. Prof

Thompson, C. A., BA MD CM *McG* Asst. Prof

1 Sr Assoc., 1 Instr

Otology, Rhinology and Laryngology

Greenway, R. E., MD, FRCSCan Asst. Prof.

1 Sr Assoc., 4 Instrs.

Pædiatrics

Rathbun, J. O., MD *Tor.*, FRCPCan Prof

Campbell, Mrs Margaret K. P., MD *Tor.* Asst. Prof

Denison, A. G., MD Asst. Prof

Valentine, G. H., MB ChB *Brist* Asst. Prof.
1 Sr Assoc., 4 Assts

Pathological Chemistry

Neufeld, A. H., MSc PhD *Manit*, MD
CM *McG.*, FCIC Prof.
1 Instr., 4 Res Assts

Pathology

Fisher, J. H., MSc MD, FRCPCan Prof.
Smout, M. S., MD Asst Prof.
Malone, R. G. S., MD BCh *Belf* Asst Prof.
3 Lectrs., 1 Sr Fellow

Pharmacology

Gowdey, C. W., DPhil *Oxon*, MSc Prof.
2 Instrs., 1 Demr., 1 Asst

Physical Medicine and Rehabilitation

1 Lectr Prof.

Physiology

Stevenson, J. A. F., MA MD CM *McG* Prof.
Stavsky, G. W., MD *Odessa*, MSc MD
CM *McG.* Prof.
Manning, G. W., MD PhD *Tor.*,
FRCPCan Hon Lectr
4 Lectrs., 6 Res Assts

Psychiatry and Preventive Medicine

Hobbs, G. E., BA MD *Tor*, MPH *Mich.*
Michael Francis Fallon Prof.
Buck, Carol, DPH *Lond*, MD PhD Assoc. Prof.
2 Sr Assocs., 6 Lectrs., 13 Instrs., 2 Demrs.,
3 Res Assts

Radiology, Diagnostic and Therapeutic

Smith, I. H., MD MSc, FRCS Assoc Prof.
Copestake, G. G., BA *Camb*, DMRD *Edin* Asst Prof.
2 Sr. Assocs., 10 Instrs., 1 Sr Teaching Fellow

Surgery

MacLachlin, A. D., DPhil *Oxon*, MS *Tor*,
MD DSc, FRCS, FRCSCan Prof.
Grace, A. J., MA BM BCh *Oxon*, FRCS,
FRCSCan, FACS Assoc Prof.
Ross, C. C., OBE, MD *Manit.*, FRCSEd
Callaghan, V. A., MD, FACS Asst Prof.
Kennedy, J. C., MD, FRCSCan Asst Prof.
Drake, C. G., MD MSc, FRCSCan Asst Prof.
McAninch, L. N., MD, FRCSCan, FACS
1 Sr Assoc., 11 Instrs (Surg.), 1 Sr Teaching
Fellow

ADMINISTRATIVE AND OTHER STAFF

Dir of Univ Health Services R. J. Bowen,
BA MD Dir. of Extension & Summer Sch.
Dept.: J. A. McIntyre, MA *Tor* Dir of
French-English Summer Sch. at Trois-Pistoles,
Que T. J. Cassabon, BA *Laval*. Dirs of

Placement N. M. Armstrong, BA (Sch of
Bus Admin), T. L. Hoskin, MA *Northwestern*
Warden of Spencer Hall: Mrs Dorothy Struckett
Warden of Medway Hall: Hon. M. Gregg, VC.

AFFILIATED INSTITUTIONS

HURON COLLEGE OF ARTS, London, Ont
(Anglican) Founded 1863 Provides courses in
anglican theol. as well as in arts Awards BD
degree For men and women. Actg Principal—
Rt Rev W. A. Townshend, BA Hon DD Hon
LLD 21 other teachers

ST PETER'S SEMINARY AND CHRIST THE KING
COLLEGE OF ARTS, London, Ont (R. C.) Founded
1912, affiliated 1923 Provides a number of
courses leading to BA of univ For men only

Rector—Mgr A. P. Mahoney, LLD Dean—
Rev. L. A. Wemple, PhL *Pontif Athen Angelicum*,
BA 27 other profs and instrs in arts subj

URSULINE COLLEGE OF ARTS, London, Ont
(R. C.) Affiliated in 1919 Provides a number of
courses leading to BA of univ For women only
Dean and Prof of French—Mother Marie, PhD
Tor 20 other profs and instrs in arts subj

GENERAL INFORMATION

Incorporated by an act of the provincial legis-
lature in 1878 as the 'Western University of
London, Ontario', in connexion with the Church
of England, the univ has become, under the pro-

visions of amending acts of 1908, 1923 and 1955,
absolutely undenominational in its govt., which
is under provincial and municipal control. It
consists of 7 divs of the univ proper—the fac. of

arts and sci. (University Coll, Middlesex Coll, Coll of Music), the fac of grad studies, the fac. of engin sci, the fac of law, the fac of med, the sch of nursing and the sch of bus admin—as well as the affiliated instns listed above

CONSTITUTION The univ senate is responsible for academic affairs, while the bd of governors controls financial affairs. The bd of governors is partly apptd by the lt-governor-in-council, partly by the London city council, partly by the univ, and partly elected. The senate is partly univ admin & fac members, *ex officio*, partly elected by fac members, secondary sch principals and univ grads, and partly apptd by outside bodies, e.g. bds of educn and near-by city and county councils. The president and vice-chancellor is chairman of the senate and a member of the bd of governors.

INCOME (1959-60). \$5,964,483, incl \$987,716 for res and \$817,638 for ancillary enterprises. Principal sources (excl ancillary enterprises): federal govt, 18.9 per cent; provincial govt, 20.5 per cent; municipal, 1.5 per cent; res grants, 19.5 per cent; other gifts and grants, 1.5 per cent; student fees, 32.2 per cent; endowment income, 1.6 per cent; other sources, 4.3 per cent.

FACULTIES AND SCHOOLS See above (for deans, see p 365).

UNIVERSITY PRECINCT Campus consists of more than 500 acres along Thames River in N London. Fac of med is in a hosp centre on South St. Each affiliated coll has its own campus close to north precinct. Plans call for a basic med sci bldg on north campus soon. It is also planned to keep a good deal of space open for playing fields.

LIBRARIES of univ proper: 266,000 vols plus several thousand pamphlets. Barnett collection contains many rarities dealing *inter alia* with Canadian and American hist.

LABORATORIES J. B. Collip med res lab, cancer res lab.

TEACHING HOSPITALS in London: Victoria, St Joseph's, St Mary's, War Memorial Children's, Bethesda, Ontario, Beck Memorial San, Westminster (Veterans), Ontario Hosp., nr St Thomas, Ont.

ADMISSION See Appendix III. Admission to the med sch is usually not open to non-Canadian students because of limited facilities.

FIRST DEGREES 3 yrs (4 for hons) from sr matric—BA, BSc; 4 yrs from sr matric—BESc; 5 yrs from sr matric—LLB, BScN (nursing), 6 yrs from sr matric—MD.

Hons courses represent both gen and sp educn as well as higher standards. Hons may be taken in biol, bus admin, chem, classics, compar. lit, incl Russian, econ, Engl, French, geog, geol, German, hist, journalism, Latin, maths. (pure, appl., statistical, astronomical, actuarial), mod. langs., philos., phys & health

educn, phys (general, geophys, radio phys & electronics), pol sci, psychol, sociol, and combinations of these subs. Univ and Middlesex Colls offer all except bus admin, which is available in a sep. sch., St. Peter's Coll offers hons philos., College of Christ the King offers a few arts hons courses, Ursuline Coll offers most of the arts hons courses but none in natural sci, Huron Coll offers some hons work.

Attendance on part of the classes (in arts only) may be dispensed with by permission of the senate, but all students must have attended lectures in the univ for the equivalent of 2 yrs. before they graduate.

HIGHER DEGREES 1 yr from hons BA or BSc, or 2 yrs from ord BA or BSc—MA, MSc, MBA, MScN, LL.M., 5 yrs of clin & grad study (open only to holders of FRCPCan or FRCSCan)—MCISc; 3 yrs of grad work in arts, business admin, sci or med depts—PhD.

The MA may be taken in classics, econ & pol sci., Engl, geog, German, Hebrew, hist, maths. & astron, philos, psychol, romance langs. The MSc may be taken in bacteriol & immunol, biochem, biophys, bot, chem, geol, geophys, med res, microscopic anat, pharm, phys, physiol, zool. The PhD may be taken in almost all subjects in which master's degrees are available.

HONORARY DEGREES DCL, LLD, DSc, DLitt, MusD, DD.

The univ does not award **EXTERNAL DEGREES**.

DIPLOMAS Bus admin, journalism, pub health nursing (DPHN), nursing educn (DNE), nursing service admin (DNSA), each course 1 yr, for grads in respective fields, music (pedagogy), 2-yr course in Coll of Music.

FEES Annual arts and sci, \$425-\$465, bus admin, \$490, law, \$500, engin sci, \$550; med, \$675, nursing, \$465; grad. studies, \$340 (arts and sci), \$490 (bus admin).

ACADEMIC YEAR Sept 12-May 15 (approx.). year varies from 32 to 36 wks among the various facs and schs.

CORRESPONDENCE AND EXTENSION WORK in winter sessions in some general course subs, offered mainly for teachers and other adult students, either as credit courses towards degrees or as non-credit cultural courses. No degree may be earned entirely in the extension and correspondence div, without attendance at winter or summer sessions. Adult educn. is under the control of the summer sch, correspondence and extension dept.

THE SUMMER SCHOOLS (approx. 1500 students) offer a 7-wk course at Trois-Pistoles, Que, in French for English-speaking students, and in English for French-speaking students, and a 6-wk course at University Coll in standard arts & sci subs of the gen course (for BA) as well as hons work in Engl, geog and maths for teachers with degrees who are working for certain teaching certs.

2 summer courses, each of 1 month's duration, in marketing and in management trg at executive level, for about 200 men

The ALUMNI ASSOCIATION assumes some responsibility for the placement of grads. In addition, the Dean of men supervises a placement service for summer and for permanent employment, and seh of bus admin and engin. sci fac have their own placement bureaux

STUDENT RESIDENCES. Spencer Hall, London Township (for 104 women), Medway Hall (for 300 men), Brescia Hall (100 Ursuline Coll women), Huron Coll (250 men and women in various residences), Christ the King Coll residence for 150 men, St Peter's Coll (150 men), fraternity houses and society houses for men and women above the freshman level, the United Church residences accomm 75 men and women, Newman House 15 men, and Lutheran Student Centre 10 men.

THE DEPT OF MILITARY STUDIES offers trg in the univ naval trg div, or the R.C.A.F. univ

reserve trg plan or the Canadian officers' trg corps

THE UNIVERSITY HEALTH SERVICES provide free med. service for students daily, at the campus health centre, and the univ physician and his staff are on call to visit students in their residences. A group health insurance fee pays for special services

PUBLICATIONS *Arts and Science Announcement* (May); *Med School Announcement* (Aug); *The Business Quarterly*, *Medical Journal*; *Univ Gazette* (once a week during term); *Occidentalism* (May); *Admissions Handbook* (April); *School of Business Admin Announcement* (March); *Fac. of Law Announcement* (May); *Fac. of Graduate Studies Announcement* (May); *Directory & Student Handbook* (Nov); *Folio* (student literary publication, Dec and April), *Freshmen Handbook* (Sept.), *Alumni Gazette* (9 times a year).

Hists. *These Sixty Years* Prof. W. F. Tarnblin (University, 1938), *Western*, 1878-1933 J. J. & R. D. Talman (University, 1952)

THE YEAR 1960

PRINCIPAL BENEFACTIONS Ontario Div., Canadian Cancer Soc, \$600,000.00 for construcn and equipping of cancer res lab, anonymous donor, \$275,000.00 for construcn of Richard Ivey sch of bus admin bldg library

(Total value of all benefactions received (incl grants from outside foundations for res., etc.) more than \$1,500,000.00)

MAJOR BUILDING DEVELOPMENTS *Bldgs completed* Middlesex Coll (a constituent arts coll), Kresge sch of nursing *Approaching completion*. Josephine Spencer Niblett fac of law bldg, cancer res. lab

NEW FACULTY Engin. sci (replacing dept. of same name)

RETIREMENTS Prof. R. E. K. Pemberton (classics), Prof. S. F. Maine (dir, extn and summer school), Prof. J. A. Gunton (chem), Prof. J. W. Burns (chem), Prof. R. L. Allen (phys), [from post of dean] Dean J. B. Collip (med.), Dr. W. C. Sharpe (med.), Miss K. M. Gillespie (asst. librarian)

RESIGNATIONS. Dr. J. Redy (Engl), apptd to Mich.; Miss M. J. Collier (psychol), Dr. J. McClelland (romance langs), Dr. G. F. Atkinson (chem), Dr. W. D. R. Eldon (econ & pol sci), apptd to tariff bd.; J. Lintott (sch of bus), to grad work, N. J. Fry (sch of bus), to grad work, J. B. Washington (sch of bus), Prof. R. St. J. Macdonald (law), apptd prof., Toi

DEATHS Dr. J. H. Geddes (med.), Dr. T. H. Coffey (phys med & rehabilitation)

HONORARY DEGREES. DCL—Major-Gen., the Rt. Hon. G. P. Vanier, govr-gen* of Canada;

A. Sevigny, lawyer, chief justice of prov. of Quebec, LL.D.—Sir P. Morris, vice-chancellor, Brist., the Hon. J. P. Robarts, Ont. minister of educn; G. Clark, journalist; A. Nimmo, moderator of presb church in Canada; W. A. Townshend, suffragan bishop of Huron diocese DLitt.—A. R. Foy, former chancellor of the univ, journalist, newspaper editor

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time	External*
Men	2941	1216	362
Women	1236	705	177
Total	4177	1921	539

Distribution by Faculties *Arts & sci*, 5453, *bus admin*, 130, *engin*, 181, *grad studies*, 394, *law*, 71, *med*, 243, *nursing*, 165 Total: 6637

Included in the figures above are —

Postgraduate students, 394.

New admissions, 2443

Students from other countries, 178 (Commonwealth, 77, USA, 43; Europe, 13, S America, 6)

DEGREES AWARDED (1959-60) *Arts & sci*, BA, 568, BA (hons), 126; BSc, 4, BSc (hons), 31, BEsc (hons), 20 *Bus admin*, BA (hons), 64 *Grad studies*, PhD, 12; MSc, 9; MBA, 77, MA, 16 *Med*, MD, 57 *Nursing*, BScN, 20

DIPLOMAS AWARDED (1959-60) *Bus. admin*, 20, *journalism*, 4, *music*, 16; *nursing*, 117.

* All other part-time students are intra-mural or in attendance at summer session. The external students are not included in the part-time figures

CEYLON

University of Ceylon (p. 374)

CEYLON

UNIVERSITY OF CEYLON§

Founded 1942 by incorporation of Ceylon Medical College (1870) and
Ceylon University College (1921)

Postal Address (Registrar) Peradeniya, Ceylon

Cables and Telegrams University, Peradeniya

Telephones—

Colombo · Colombo 8349

Peradeniya · University Exchange Kandy

CHANCELLOR—H E THE GOVERNOR-GENERAL OF CEYLON

PRO-CHANCELLOR—THE MINISTER OF EDUCATION

VICE-CHANCELLOR—SIR NICHOLAS ATTYGALLE, LMS Hon DSc LLD, FRCS, FRCOG

REGISTRAR—W A JAYAWARDANA, MA

LIBRARIAN—S C BLOK, BA Lond, FLA

BURSAR—N ALWIS

TEACHING STAFF

[†=Part-Time, *=Hd of Dept]

Agriculture

Chandraratne, M F, BSc PhD Lond *Prof
Williams, D W, BSc Ohio State, MSc III, Prof
LLD Austm Coll, IngAgric-Saltito
Baptist, B. A, BSc Lond, PhD Camb
(Agric Zool.) Lectr
Wikremanayake, V E. A, BSc(Agr) Bon, Lectr
MSA Tor (Agric Engin.) Lectr
Kalpage, F. S C P, PhD Lond, DipAgricChem
Leeds, BSc (Agric Chem) Lectr
de Silva, P L G, BVSc
(on leave) (Animal Husb & Vet. Hyg) Lectr
Seneviratne, S. T., MScAgron PhD Calif, Lectr
BSc(Agric) (Agron) Lectr
Jogaratnam, T, MSA Tor, BA
(Agric Econ & Farm Managmt.) Lectr
Samarawira, I St E, MSA Penn State,
MSc Penn, PhD Manit, BSc(Agric)
(Agric Bot) Lectr
Peiris, J. W. L., DIC, BSc PhD Lond
(Plant Pathol) †Lectr
Fernando, H E, MS PhD III, BSc
(Agric. Zool) †Lectr
Appadurai, R. R, MS Texas Agric,
BSc(Agric) (on leave) (Agron) Asst Lectr
Karunjeewa, H, BSc(Agric)
(on leave) Asst Lectr

Anatomy, see Medicine

Archæology

Paranavitane, S, CBE, PhD Ley, Hon DLitt Prof
Prematilake, P L, BA Asst. Lectr

Botany

de Silva, B L T, MSc PhD Lond *Prof
Abeywickrama, B. A, BSc Lond, Lectr
PhD Camb.
Dasanayake, M. D, MA Camb, PhD Manc, Lectr
BSc
Thambiah, M S, PhD Lond, BSc Lectr
Pethiyagoda, U, BSc PhD Lond Asst Lectr.
De Fonseka, R N, BSc Asst Lectr
† Temp Asst Lectr

Chemistry

Fonseka, E L, MSc PhD Lond, FRIC *Prof
Sultan Bawa, M. U S, DIC, PhD Lond, Lectr
BSc Lond & Ceyl
Siriwardena, P. P G. L, PhD Camb, BSc Lectr
Wannigana, G. P., PhD Camb, BSc Lectr
Pereira, Mrs W P Daisy, MSc
(on leave) Asst. Lectr.
Ramakrishna, R S, BSc (on leave) Asst. Lectr
Rodrigo, R G A, BSc Asst Lectr.
Ariyaratne, J K P, BSc Asst. Lectr.
Selvaratnam, M, BSc Asst. Lectr
Thurairajan, P, BSc Asst Lectr

Classics

Amerasinghe, C W, BA Lond, MA Camb.
*Prof
Peris, M, BA Asst Lectr.

Economics

Jayasuriya, F*R, BA BSc(Econ) Lond. Prof
Lectr., Actg. Hd. of Dept.

§ Member of the Association of Universities of the British Commonwealth

Gunasekera, H A de S., MSc(Econ) PhD Lond, BA	Lectr.
Weerawardene, I D. S., PhD Lond, BA	Lectr.
Vandendriessen, I H, PhD Lond, BA(Econ)	Lectr
Indraratna A D V de S., DipCom MCom Bum, BA	Lectr
Wilson, A J, PhD Lond, BA	Lectr
Rajaratnam, S, BA	Asst Lectr
Gunasekera, V A, BA	Asst Lectr
Jayasinghe, K H, BA	Asst Lectr
Molden, B. C, BA	Asst Lectr

Education

Jayasuriya, J. E, MA Lond	*Prof
Nesiah, K, MA Madh, TD Lond	Lectr
Jayasekera, U D, MA Lond	Lectr
Wickramasooriya, Miss Chitra, BA Lond, MA	Lectr
Thannayagam, Rev Fr X S, MA MLatt Amam, DD Rome, PhD Lond	Lectr
Rubeu, T R A, BSc (on leave) Asst	Lectr
Mutulingam, S, BSc (on leave) Asst	Lectr
Udugama, P P, MA Lond & Calc, BA	Asst Lectr
Kaiunanandan, A, BSc Madr, MA Lonsville Visual Aids Officer	Lectr

Engineering, see below**English**

Passé, H A, BA PhD Lond	*Prof
de Souza, A T A., BA Lond	Lectr
Halpe, K A C G, BA (on leave) Asst	Lectr.
De Abicow, K, BA	Asst Lectr
Kandiah, T, BA	Asst Lectr
Wickramasooriya, B S S A, BA	Asst Lectr

Geography

Kularatnam, K, MA PhD Lond, DUParis, DipGeog Madh	*Prof
Thambyahpillai, G G R, MA Calif, PhD Camb, BA, FRMetS	Lectr.
Panditaratne, B L, MS Philippines, PhD Lond, BA	Lectr
Dias, H. D, BA Camb (on leave) Asst	Lectr.
Fonseka, H N C, BA (on leave) Asst	Lectr.
Gunawardene, Miss Kusuma A, BA (on leave) Asst	Lectr
Selvanayagam, P., BA	Asst Lectr

History

LaBrooy, W J F, BA Lond	Prof.
Lectr, Actg Hd. of Dept.	
Pinto, Rev Fr S I, BA Lond., MA Oxon, BD BPh Rome	Lectr.
Sinha, D P, BA Calc, MA PhD Lond	Lectr
Vimalananda, T, MA Calc, PhD Lond	Lectr
Perera, L S, BA PhD	Lectr
Gunawardena, K W, PhD Lond, BA	Lectr.
Arsaratnam, S, PhD Lond, BA	(on leave) Lectr.
Kirimamune, Mrs. Sirima, BA PhD Lond	Lectr

de Silva, K. M, BA	(on leave) Asst Lectr.
Wyetunge, W M K, BA	(on leave) Asst Lectr
Kodikara, S U, BA	Asst Lectr
Bastampillai, B E. St. J, BA.	Asst Lectr.
Abeysinghe, T B. H., BA	Asst Lectr

Law

Nadaraja, T, MA Camb	*Prof
Ahlp, B C, LLB Lond.	Lectr
Goonesekere, R. K W, BCL Oxon, LLB	Lectr
Murugasampillai, V A, LLB	Asst Lectr
Sanmuganathan, M, BA Oxon.	(on leave) Asst Lectr.
Udurawana, M A, LLB	†Lectr
Amerasinghe, A R. B, LLB	Asst Lectr

Mathematics

Nadaraser, S, MA Camb, BSc Lond	Reader, Actg Hd of Dept
Kanagasabapathy, P, BA Camb, MSc	Lectr
Ametasekera, D V A S, MA Camb, BSc Lond	Lectr
Gangadharan, K S, BA PhD Camb, BSc	Lectr
Kulatilaka, C R, MA Camb, BSc	Lectr
Joseph, V, BSc PhD Lond	Lectr.
Epasinghe, P W, BSc (on leave) Asst	Lectr
Tharmaratnam, V., BSc	Asst Lectr.

Medicine, see below**Modern Languages (Western)**

Ravilly, G, LèsL Dipld'EtSup Paris	Lectr.
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Pali and Buddhist Civilization

Jayawickrama, N. A., BA PhD Lond	(on leave) Prof.
Dhitassekera, J D, BA	Lectr.
Pachow, W, BA Shanghai, PhD Bom,	Lectr
DiplSino-IndianStudies VB	Lectr
Karunaratne, W S, PhD Lond., BA	Lectr
de Silva, Mrs Lily, BA	Asst Lectr

Philosophy

Mathiaparanam, Miss Kanmalal, MA Madh.	Prof
Lectr, Actg Hd. of Dept	
Sarkai, A K, MA PhD DLitt Patna	(on leave) Lectr
Jayatilake, K N., MA Camb, BA Lond. & Ceyl.	(on leave) Lectr
Mendis, B., BLitt Oxon, BA Lond & Ceyl.	Lectr
Hinget, H B, BA	(on leave) Asst Lectr.

Physics

Mailvaganam, A. W, OBE, MA PhD Camb, BSc Lond	*Prof
Appapillai, V, BSc PhD Lond	Reader
Baliga, S. P, MA Madr	Reader
Muttucumarana, T de S, DIC, BSc PhD Lond.	Lectr.

Kannangara, M L T, PhD *Mane.*, BSc Lectr
 Thambyahpillai, T., PhD *Mane.*, BSc Lectr
 Dassanaike, G A, PhD *Camb.*, BSc Lectr
 Dahanayake, C, PhD *Brist.*, BSc Lectr
 Fernando, P. C. B., BSc PhD *Lond.* Asst. Lectr
 Kunaratnam, K., BSc Asst. Lectr
 Jayaratne, O W., BSc Asst. Lectr
 Jayaweera, K O I F., BSc Asst. Lectr

Sanskrit

Wijesekera, O. H. de A., MA PhD *Lond.*,
 DipIOS *Sch of O & A Studies (Lond)* *Prof
 Tilakaratne, J., PhD *Lond.*, BA Lectr
 Jayasuriya, M H F., DU *Paris*, BA Lectr
 Gunasinghe, B A S., DU *Paris*, BA Lectr
 Kurukkal, K K., PhD *Poono*, MA Asst. Lectr.

Sinhalese

Hettiaratchi, D E., BA PhD *Lond.*, MA
 PhD *Calc* *Prof
 Saratchandra, E R., MA PhD *Lond* Prof
 Jayapala, M B., BA PhD *Lond.* Lectr.
 Wijayaratne, D. J., BA PhD *Lond.*
 (on leave) Lectr
 Fernando, P E E., MA PhD *Lond* Lectr
 Sri Rammandala, M., MA PhD *Lond* Lectr
 Kulasuriya, A. S., DU *Paris*, BA Lectr.
 Silva, M. H. P., BA *Lond.*, MA
 (on leave) Asst. Lectr
 De Silva, M W S., MA *Lond.*, BA Asst. Lectr.
 De Saram, D. D., MA *Lond.* Asst. Lectr
 Rajakaruna, M. A. D. A., BA
 (on leave) Asst. Lectr
 Wijayawardena, G. D., BA Asst. Lectr

Sociology

Peiris, R., BSc PhD *Lond* Prof
 Jayasuriya, D L., BA *Syd.*, PhD *Lond* Asst. Lectr.
 Obeyesekere, G., BA Asst. Lectr.
 Temp. Asst. Lectr.

Tamil

Kanapathipillai, K., BA PhD *Lond.*,
 Vidvan *Annam* *Prof
 Chelvanayakam, V., BA *Lond.*,
 MA *Annam.* Lectr
 Vithanathan, S., PhD *Lond.*, MA Lectr
 Sathasivam, A., DPhil *Oxon*, MA Lectr.
 Thananjayarajasingham, S., BA
 (on leave) Asst. Lectr
 Velupillai, A., BA Asst. Lectr.

Veterinary Science

McGaughey, C A., MA *Camb.*, MSc
 DVSM *Mane.* *Prof
 Brito-Babapulle, L. A. P., BSc (VetSc) *Lond.*,
 DTVM *Edin*
 (Compar. Anat. & Vet. Pharmacodynamics) Lectr.
 Seneviratna, P., PhD *Lond.*, BVSc *Madras*
 (Vet. Med. & Parasitol) Lectr.

Bible, Prof. S. W., PhD *Edin*, MB BS
 (Pharmacol) Lectr
 Kottegoda, S R., DPhil *Oxon*, BSc *Lond.*,
 MB BS (Pharmacol) Lectr
 Wijewanta, E A., BVSc
 (on leave) (Vet Pathol & Bacteriol) Lectr.

de Silva, P. L. G., BVSc
 (on leave) (Animal Husb) Lectr.
 Kodituwakku, G E., DTVM *Edin*, PhD
Lond., BVSc (Clin. Vet. Surg) Lectr
 Fernando, S T., BVSc
 (on leave) (Vet Parasitol, Materna Medica
 & Therapeutics) Asst. Lectr.
 Fernando, S D A., BVSc
 (on leave) Asst. Lectr

Visiting Lecturers

Seneviratne, D. (Vet. Pub. Health)
 Jayasuriya, D J. C., BVSc (Animal Management)
 Jeganathan, P., BSc (VetSc) *Syd.*,
 DTVM *Edin* (Animal Husb)
 Temp. Asst. Lectr.

Zoology

Fernando, W., BSc PhD *Lond* *Prof
 Crusz, H., BSc PhD *Lond* Lectr.
 Laduwahetty, M. S. Augusta M. D., BSc
 Asst. Lectr.
 Costa, H. H., BSc Asst. Lectr.
 Arudpragasam, K D., BSc Asst. Lectr.

DENTISTRY

Anæsthetics

Vanniasingham, T W., MB BS, FFARCS
 Visiting Lectr

Anatomy and Histology

Waas, M. J., PhD *Mane.*, LMS
 (Gen. & Dent. Anat) Prof
 Jayawardene, F. L. W., PhD *Edin*, MB BS
 (Gen. Anat.) Lectr.

Bacteriology

Chapman, T E D., PhD DipBact *Lond.*,
 MB BS *Prof.

Dental Surgery

Dissanayake, S. B., BDS, FDSRCS
 (also Orthodont) *Prof.
 Bartlett, G. C., MB BS, FDSRCS Lectr.
 Tillekeratne, L., DSc *Penn.*, LDS Asst. Lectr.
 Balendra, W., LMS, FDSRCS Visiting Lectr
 Gangadharan, S., BDS Demr

Medicine, General

Obeyesekere, H. I., MD *Lond.*, MB BS, MRCP
 Visiting Lectr
 Wickremasinghe, P. C., MD *Lond.*,
 DPH *Camb* Visiting Lectr.

Operative Dental Surgery and Orthodontics

Dissanayake, S B, BDS, FDSRCS (D Surg) Prof
Bartlett, G C, MB BS, FDSRCS Lectr

Pathology

Dissanayake, S B., BDS, FDSRCS (Dent. P) Prof
Cooley, G H, OBE, MD Lond (Gen P) Prof
Bartlett, G C, MB BS, FDSRCS (Dent. P) Lectr
Tennakoon, G E, PhD Lond, MB BS (Gen P) Lectr

Physiology and Pharmacology

Koch, A C E, BSc Oxon, LMS *Prof
Baptist, N G, BSc PhD Lond, FRIC (Biochem) Reader

Lecturers

Watson, R S S, PhD Lond., MB BS (Physiol)
Barnayake, V, DPhil Oxon, MB BS (Physiol)
Bible, Prof S. W., PhD Edn, MB BS (Pharmacol)
Kotragoda, S R., BSc Lond, DPhil Oxon., MB BS (Pharmacol)
Wikramanayake, T W, PhD Glas., MB BS (Biochem.)
Wijesundera, S., BSc DPhil Oxon, BSc Lond. & Ceyl. (Biochem)
Karunaratnam, M C, BSc Lond, PhD Edn (Biochem)
Jansz, H D W, BA Camb, LMS (Physiol)
Hoover, Prof A A, BSc PhD Lond (Biochem)
Nesarajah, M. S, MB BS (Physiol)

Prosthetic Dental Surgery

Brito-Mutunayagam, M A B, DTM DPH Lond, FDSRCS *Prof
Savundranayagam, A, BDS, FDSRCSed Asst Lectr
Bambaradeniya, K, LDS Asst Lectr

Surgery, General

Sirwardene, M H G K, MB BS, FRCS Visiting Lectr
Joseph, P. A. P, MB BS, FRCS Visiting Lectr

ENGINEERING**Civil Engineering**

Pereira, E O E, BSc Lond, BA Camb. *Prof
Sivaprakasapillai, T, BSc BSc(Eng) Lond. Lectr
de Silva, H B., BSc MSc(Eng) Lond. Lectr.
Selvanayagam, P, DIC, BSc(Eng) Lectr.
Arumugam, K., BSc(Eng) PhD Lond Lectr

Electrical Engineering

Paul, R H, MA Camb, BSc Lond, MIEE *Prof.
Fernando, W M. G., MSc(Eng) Lond. Lectr
Jayasekera, W. P., BSc(Eng) PhD Lond Lectr

Mathematics

Bartholomeusz, E. F, MSc Lond, PhD Camb. Lectr

Mechanical Engineering

Chinnappa, J. C V, BE Madr, DIC, MSc(Eng) Lond Lectr, Actg Hd of Dept
Mahalingam, S, BSc(Eng) PhD Lond Asst. Lectr.
Kuruppu, U S, BSc Asst Lectr.
2 Temp Asst. Lectrs

MEDICINE**Anæsthetics**

Lucas, A, LMS, FFARCS Visiting Lectr.
Umagiliya, D C M, LMS, FFARCS Visiting Lectr
Fernando, J L C, LMS, FFARCS Visiting Lectr.
Richards, J. R, LMS, FFARCS Visiting Lectr
Ponnambalam, S, LMS, FFARCS Visiting Lectr
Pereira, B S, MB BS, FFARCS Visiting Lectr.
Gunaratne, C M H, MB BS, FFARCS Visiting Lectr.
Attygalle, L M V., MB BS, FFARCS Visiting Lectr

Anatomy

Waas, M J, PhD Manc., LMS *Prof
Jayawardene, F. L. W., PhD Edm., MB BS Lectr.
Pallie, W., DPhil Oxon, MB BS Lectr
Jayatilaka, A. D P, MB BS Lectr.
Navaratnam, Y, MB BS Lectr.
Samarasinghe, D D, MB BS Lectr.
Karunanathan, V, MB BS Demr
Gulasekharan, R, MB BS Demr
Weerasinha, P A, MB BS Demr
Vijayaragavan, A, MB BS Demr

Bacteriology

Chapman, T. E D., PhD DipBact Lond, MB BS *Prof.
Arsecularatne, S. N., MB BS Lectr.

Biochemistry

Hoover, A A, BSc PhD Lond *Prof.
Baptist, N G, BSc PhD Lond, FRIC Reader
Wikramanayake, T. W, PhD Glas, MB BS Lectr.

Karunaratnam, M C., BSc Lond, PhD Edn Lectr

Wijesundera, S, DPhil Oxon, BSc Oxon, Lond & Ceyl. (on leave) Lectr.

Visiting Lecturers

Jegatheesan, K. A, PhD
Jayasuriya, J C N, PhD
Wickremasinghe, R. L, PhD
Wijesinghe, G S, PhD
Senthushanmuganathan, S., PhD
Watson, D J, PhD

Dermatology

Chelvarajah, T, LMS, MRCP Visiting Lectr.

Forensic Medicine

Fernando, H. V. J., MD <i>Lond</i> , MB BS	*Prof
Ranasinghe, H., MB BS, MRCP	Lectr
Jayawardene, C. H. S., MB BS MA PhD	Lectr
Kodagoda, N., MB BS	Lectr
Sarveswaran, R., MB BS	Temp Lectr.

Infectious Diseases

Dharmasena, B. D., MRCPed	Visiting Lectr
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Leprosy

de Fonseka, P. J., LMS	Visiting Lectr.
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Medicine

Rajasuriya, K., MD LMS, MRCP	*Prof
Jayawardena, R. P., LMS MD MRCP	Prof
Wijekoon, Y. R. M. W. B., MB BS	Registrar
Peiris, O. A., MB BS	Res Asst
Ratnaike, V. T., MB BS	Registrar
Gunawardene, D. A., MB BS	Res Asst

Visiting Lecturers (Ward Classes, Tutorials,
Clin. Med & Pre-Clin. Med.)

Handy, G. R., OBE, MD <i>Lond</i> , LMS, MRCP	
Gunawardene, J. H., MD <i>Lond</i> , LMS, MRCP	
Jayawardena, R. P., MD <i>Lond</i> , LMS, MRCP	
Wilson, J. R., MD <i>Lond</i> , MRCP	
Medonza, M. O. R., MD, MRCP	
Attygalle, D. J., MD, MRCP	
Thanabalsundaram, R. S., MD, MRCP	
Wijesatke, W., MD, MRCP	
Ratnawale, G. S., MD, MRCP	
Lecamvasam, D. K. L., MB BS, MRCP	
Channugam, D., MB BS, MRCP	
Gooneswardena, P. E., MB BS, MRCP	
Peiris, E. V., MD, MRCP	

Obstetrics and Gynaecology

Ranasinghe, D. A., LMS, FRCS, FRCOG	*Prof
Sinnatambay, A., LMS, FRCS, FRCSEd,	Prof
FRCOG	Lectr
Visvanathan, T., MB BS MOG, FRCSEd	Registrar
Nelson, A. D. G., MB BS	Registrar
Selvanayagam, R. G., MB BS	Visiting Lectr
Caldera, R., LMS, FRCSEd	FRCOG
Rajaratnam, P. D., LMS, FRCS,	Visiting Lectr
	Res Asst
Sivekadeksham, R., MB BS	Res. Asst.
Weerakkody, S., MB BS	Tutor
Amarasingham, J. L., MB BS	Tutor
Talwatte, D. B. B., MB BS	

Ophthalmology

Devaditiya, K. J. L. de S., LMS DOMS	
	Visiting Lectr
Vythalingam, K., LMS DOMS, FRCS	
	Visiting Lectr
Sivasubramaniam, P., LMS DOMS, FRCS	
	Visiting Lectr.
Pararajasegaram, R., DO <i>Lond</i> , LMS,	
MRCPed, FRCS, FRCSEd	Visiting Lectr
Thambar, S. V., DOMS	Visiting Lectr

Orthopaedics

Silva, F., LMS, FRCS	Visiting Lectr
----------------------	----------------

Peiris, R. B. J., MB BS, FRCS, FRCSEd

	Visiting Lectr.
Rasanayakam, V., MB BS, FRCS	Visiting Lectr

Otology, Laryngology, Rhinology

Rustomjee, R. C. J., LMS, FRCS	Visiting Lectr.
Rasanayagam, V., LMS, FRCS	Visiting Lectr.

Pædiatrics

de Silva, P. C. C., MD <i>Lond</i> , LMS, FRCP	*Prof.
	Lectr
Fernando, Mrs N. Patricia, DCH <i>Lond</i> ,	Registrar
MB BS, MRCP	Tutor
Somasara, D. A., MB BS	Res Asst.
Wijesundera, C. de S., MB BS DCH	
Bulugahapitiya, D. T. D., MB BS	

Parasitology

Sivalingam, V., LMS, MRCP	*Prof
Dissanayake, A. S., PhD <i>Lond</i> , MB BS BSc	Lectr
Jayawardene, Mrs Gladys L., PhD <i>Lond</i> ,	Visiting Lectr
LMS	

Pathology

Cooray, G. H., OBE, MD <i>Lond</i>	*Prof
Tennakoon, G. E., PhD <i>Lond</i> , LMS	Lectr
Attygalle, Mrs Daphne, PhD <i>Lond</i> , MB BS	Lectr
Gunasekara, N. D., MD <i>Edin</i> .	Lectr
Yoganathan, Mis Mangayarakasi, PhD	
DCP <i>Lond</i> , MB BS	Lectr.
Panabokke, R. G., PhD <i>Lond</i> , MB BS	Lectr
Ratnawale, W. D., MD DCP DPH <i>Lond</i> ,	Visiting Lectr.
MRCP	Demi
Fernando, A. G., MB BS	Demi
Seneviratne, E. M. E., MB BS	Demi

Pharmacology

Bibile, S. W., PhD <i>Edin</i> , MB BS	*Prof.
Kottegoda, S. R., BSc <i>Lond</i> , DPhil <i>Oxon</i> ,	Lectr
MB BS	
Laonel, N. D. W., MB BS, MRCP	(on leave) Lectr
Balasubramaniam, K., MB BS	Demi
Jayasena, K., MB BS	Temp Lectr

Pharmacy

Bathirunathan, N., BPharm <i>Lond</i> , BSc	Lectr
de Silva, K. T. D., BSc	Asst Lectr

Physiology

Koch, A. C. E., BSc <i>Oxon</i> , LMS	*Prof.
Watson, R. S., PhD <i>Lond</i> , MB BS	Lectr
Basnayake, V., DPhil <i>Oxon</i> , MB BS	Lectr
Jansz, H. D. W., BA <i>Camb</i> , LMS	Lectr
Bathirunathan, N., BPharm <i>Lond</i> , BSc	
(Pharmacol.)	Lectr
Seneviratne, K. N., MB BS	Lectr
Nesarajah, M. S., MB BS	Lectr
Jayasuriya, B. P. P., MB BS	Demi
Ramalingam, R., MB BS	Demi.
Sivasuriya, M., MB BS	Demi
Perera, L. D. D., MB BS	Demi

Psychological Medicine

Abeyawardene, A L, LMS DPM

Visiting Lectr

Public HealthAbhayaratne, O E. R, DiPh *Harv*,

DPH Edn, LMS

*Prof

de Fonseka, T E J, DPH PhD *Lond*,

MB BS

Lectr

Fernando, M A, DPH *Lond*, DCH MB BS

(on leave) Lectr

Weerasinghe, H D, MB BS

(on leave) Lectr

Radiology and Electro Therapeutics

Peiris, Q., LMS

Visiting Lectr.

Fernando, H K T, MB BS

Visiting Lectr.

Jayamanne, D D. A, MB BS *Lond*, LMS

Visiting Lectr

SurgeryPaul, M A, MS *Lond*, MRCP, FRCS

*Prof.

de Fonseka, C P, MS, FRCS

Prof

Navaratne, R A, MB BS, FRCS

Lectr

Abeyuriya, S. C, MB BS

Res Asst

Nugaduwa, W. T., MB BS

Tutor

Wickremasinghe, S Y. D. C, MB BS

Res Asst

Xavier, J T, MB BS

Registrar

Mahesan, V S., MB BS

Registrar

Visiting Lecturers (Ward Classes, Tutorials,
Clin Surg., Pre-Clin. Surg & Op Surg)

Sinnatambay, G S, LMS, FRCS

Cabraal, S A, MB BS, FRCS

Anthonis, P R, LMS, FRCS

Bartholomeusz, L N, MBE, LMS, FRCS

Austin, L D C, LMS, FRCS

Goonewardena, D F de S., LMS, FRCS,

FRCSEd

Misso, C J L, LMS, FRCS

Perera, G N, MB BS, FRCS

Sandrasagra, A P, LMS, FRCS

Paul, A T S, LMS, FRCS, FRCSEd

Jayasekera, K G, LMS, FRCS

Peetera, T D H, MB BS, FRCS

Niles, N A J., LMS, FRCS

Thambugala, R L, MB BS, FRCS

TuberculosisWilson, J R, MD *Lond*, MRCP

Visiting Lectr

Sennayake, H S G O, DCH DPH

Visiting Lectr

Richards, A M D, TDD *Madr*, LMS

Visiting Lectr

ADMINISTRATIVE AND OTHER STAFF

Asst. Registrars: M. D G Abeyratne, BA,
L W. Madugalle, BA, L. V P. Wettasinha, BA
Asst. Bursar G E Peiris, BA Univ Med
Officers H P A Weteranga, DTM&H *Lond*,
MB BS, M S Uduwela, MB BS, E. H. C.
Alles, MB BS DTM&H Asst Librarians

K D. Somadasa, MS *Cal*, BA *Lond*, Mrs.
Violet de Souza, BA Dipl Lib *Lond*, R A
Jayatilake, BSc, H A I Gunatilleke, BA *Lond*,
Dipl LibSc *Madr*, S Murugavel, BA Dir of
Phys Educn L D P Handunge Instr in
Phys Educn Shanti de Abrew, BA

GENERAL INFORMATION

The univ was founded in 1942 by incorporation
of the Ceylon University Coll, establd in 1921,
and the Ceylon Medical Coll, establd in 1870.
It occupies temporarily the premises of the two
colls. in Colombo, but new bldgs are being
erected in Peradeniya, 4 mls from Kandy, on the
banks of the Mahaweli-ganga below the Royal
Botanic Gdns The facs of agric, arts, oriental
studies and vet sci moved to Peradeniya in 1952,
the general admin in 1953 and the dental sch
in 1954 When the whole univ is moved there it
will become entirely residential More land will
be required for the fac of med and new facs
The main bldgs are being erected to a plan
formulated by Sir Patrick Abercrombie and Mr
Clifford Holliday

CONSTITUTION The corporation known as the
Univ of Ceylon (establd under the Ceylon Univ
ordinance no 20 of 1942) consists of the chancellor
(the governor-general), the pro-chancellor (the
minister of education), the vice-chancellor, the
court, the council and the senate. Financial and
legislative control is vested in the court, which
consists of the chancellor, pro-chancellor, vice-
chancellor, members of the council, profs and

other hds of depts, reps. of the facs, grads,
parliament and other bodies and certain nomi-
nated members The council is the exec body of
the univ In academic matters it acts on the
advice of the senate, which in many matters acts
on the recommendation of the facs

INCOME (1959-60) Total, Rs 10,977,518
(govt grant, 83.1 per cent, fees and other
sources, 16.9 per cent)

FACULTIES AND DEANS *Agric & vet sci.*,
Prof C A McGaughey (vet sci.), *arts*, Prof
H A Passé (Engl), *engin*, Prof E O E Perera
(civil engn), *med*, Prof O E R Abhayaratne
(pub health), *oriental studies*, Prof K Kanna-
pathipillai (Tamil), *sci*, Prof B L T de Silva
(bot)

LIBRARIES Main libr. (now in Peradeniya)
140,000 vols, sectional librs attached to labs
The univ makes a grant to the Ceylon med. libr,
which is used as libr of fac of med

LABORATORIES Sci labs in Thurstan Rd.
(moving to Peradeniya in 1960-61), med.
labs in Kynsey Rd, Colombo, dent labs in
Peradeniya

HOSPITALS Colombo General H., De Soysa H. and Castle Street H for Women, Lady Ridgeway H. for Children and the Dental Inst are teaching hospes. Med. students also use the Med Res. Inst. and the Kalutara Public Health Centre

ADMISSION No one is eligible for admission to a degree course unless he has passed the entrance exam. of the univ. or an equivalent exam. The prelum exam., which is held with the Ceylon Higher Sch. Cert. exam. in Dec. each yr., is treated as an entrance exam. Candidates for the prelum. exam. must have passed the (Ceylon) General Cert. of Educn. (ordinary level) exam. Min. age of admission to univ., 17 yrs

FIRST DEGREES. 3 yrs—BA gen., BSc gen., BScAgric, LLB, 4 yrs—BA spec., BSc spec. BA spec. may be taken in Arabic, Buddhist civilization, econ., geog., Greek, hist., Latin, maths., Pali, philos., Sansk., Sinhalese, sociol., Tamil, western classical culture, western classics; BSc spec. in bot., chem., maths., phys., zool.; 5 yrs. from univ. entrance exam. or 4 yrs. from first exam.—BDS, 6 yrs. from prelum. exam. or 5 yrs. from first exam. (which may be taken from sch.)—MB BS

HIGHER DEGREES MA or MSc, 2 yrs. PhD, 2 yrs. Degrees of DLitt, LLD, DSc, MD, MS, MOG for grads. of the univ. only

HONORARY DEGREES DLitt, DSc, LLD, MA
DIPLOMAS Educn., 1 yr. Sinhalese, Tamil, 2 yrs. each, the medium of instruct. being Sinhalese and Tamil respectively. Med. & surg., 1 yr. LDS, 5 yrs. from univ. entrance exam. DTM&H, 6 mos

FEES (Rs. 13 = £1) No tuition, exam. or degree fees for citizens of Ceylon who are not repeating courses or exams. For others, tuition fees are: arts, Rs. 150; sci., Rs. 225, med., Rs. 525. Every student pays a registration fee of Rs. 30 p a

ACADEMIC YEAR. 3 terms. July to Sept., Oct. to Dec., Jan. to March.

The LANGUAGE OF INSTRUCTION in all facs. is English, but courses in Sinhalese and in Tamil are given in those langs

POSTGRADUATE AWARDS Hilda Obeyesekera res. fellowships (one or more), annual value not less than Rs. 4800; E. W. Goonetilleke res. fellowship in Theravada Buddhism, Rs. 3000 for 3 yrs.

RESIDENCE. Colombo. for men—Univ. Christian Hostel (tel. Colombo 8054), warden, Rs. 197 per term. Aquinas Hall (Catholic) (tel. Colombo 8731), warden, Rev. Father Dominic I. Lewis, Rs. 197 per term. Medical Hostel (tel. Colombo 91789), warden, Dr. T. W. Wikramanayaka.

Peradeniya (tel. Univ. Exchange Kandy, unless otherwise stated). for men—Arunachalam Hall (tel. ext. 234), warden, Dr. M. H. F. Jayasuriya; Jayatilaka Hall (tel. ext. 233), warden, J. D. Dhirasekera; Marrs Hall (tel. ext. 252), warden, Dr. B. A. Baptist; Ramanathan Hall (tel. exts. 261, 279), warden, J. B. C. Rodrigo; Marcus Fernando Hall (tel. ext. 299), warden, Dr. P. Senewiratne, for women—Hilda Obeyesekera Hall (tel. ext. 225), warden, Miss Kannakara Mathaparanam; James Peiris Hall (tel. ext. 230), warden, Miss. Vajira Cooke; Sanghamitta Hall (tel. ext. 242), warden, Mrs. Ram Aluwishare; Bhikkus Hostel (tel. ext. 284), warden, A. D. V. de S. Indaratne.

Fees for all Peradeniya halls of residence, Rs. 220 per term

PUBLICATIONS. *Calendar* (annual), Rs. 5; *Annual Report of the Council* (not for sale).

UNIVERSITY PRESS undertakes most printing work of the univ. Supervisor H. B. Perera.

THE YEAR 1960

PRINCIPAL BENEFACTIONS Rs. 160,913, for work in facs. of agric. and engin., from U.S. aid.

RETIREMENTS Prof. M. V. P. Peiris (surg.)

RESIGNATIONS Dr. R. Kanagasunderam (anat.), Dr. S. Gnanalingam (electr. engin.), E. L. Samarasinghe (asst. librarian), G. H. Wikramanayake (western classics), Dr. S. J. Thamabiah (sociol.), Dr. M. A. V. Devanathan (chem.).

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full Time	Part-Time
Men	2548	—
Women	1136	—
Total	3684	—

Distribution by Faculties: Agric., 21, arts, 1685, engin., 249, law, 30, med., 975; sci., 708, vet. sci., 16. Total 3684.

Included in the figures above are:—

Postgraduate students, 102

New admissions, 1189.

Students from other countries, 6

DEGREES AWARDED (1959-60) Agric. BSc (Agric.), 5; Arts. BA, 315; MA, 4; Engin. BSc(Engin.), 30. Law. LLB, 8; Med. MB BS, 88; MD, 6; Sci. BSc, 138; Vet. sci. BVSc, 4; PhD, 1. Total number of first degrees awarded, 588

DIPLOMAS AWARDED (1959-60). DipEd, 64, DTM&H, 5.

EAST AFRICA

University of East Africa (p. 382)

Makerere University College (p. 383)

Royal College, Nairobi (p. 388)

University College, Dar es Salaam (p. 390)

UNIVERSITY OF EAST AFRICA

It is intended that the following shall be the constituent colleges of the proposed new university.—

MAKERERE UNIVERSITY COLLEGE, Uganda^e see p. 383

ROYAL COLLEGE, NAIROBI, Kenya see p. 388

UNIVERSITY COLLEGE, DAR ES SALAAM, Tanganyika^e see p. 390

The creation of a Univ. of East Africa was first proposed in 1958 by the Working Party on Higher Education in East Africa led by Dr J. F. Lockwood, the master of Birkbeck Coll., Univ. of London. After acceptance in principle by the Inter-University Council for Higher Education Overseas, the 3 E. African govts and the coll. councils, the proposal was confirmed by the white paper issued by the E. African govts in 1959 and by the recent Quinquennial Advisory Cttee. on Higher Education in East Africa. Great interest was also expressed by the Conference on East African Education called at Princeton, New Jersey, in Dec. 1960 by the American Council on Education, which gave the scheme its full support.

A provisional council—the first meeting of which was held in Nairobi in June 1961 under the chairmanship of Sir Donald MacGillivray, GCMG, MBE—has been formed to establish as soon as possible the Univ. of East Africa, consisting of the existing colls. (about which information is given below on pp. 383-390): Makerere Univ. Coll., the Royal Coll., Nairobi, and the Univ. Coll., Dar es Salaam. This council is fully supported by the 3 univ. colls. and by the govts of Kenya, Uganda, Tanganyika and Zanzibar, by the Inter-University Council for Higher Education Overseas, by the Council for Overseas Colleges of Arts, Science and Technology, and by the African Liaison Cttee. of the American Council on Education.

The Univ. of East Africa will award its own degrees, the standard and recognition of which

will be guaranteed by a sponsoring body such as is proposed for the new univs. in the United Kingdom. This body will consist of eminent academic figures drawn from the univ. world.

The constituent colls. will retain their respective identities and will be responsible for the teaching and research work of the univ. while enjoying and benefiting from a broader academic assocn.

The provisional council has set up an academic cttee., representative of the academic bds. of the 3 constituent colls., to make recommendations on all matters relating to the academic management and organization of the univ.

The principal of Makerere Univ. Coll., Mr B. de Bunsen, has been appointed vice-chancellor designate of the new univ. He will become the first vice-chancellor of the univ. when it is established. It is intended that the vice-chancellorship should normally be held for a period of 3 years and that the appt. should be made from among the principals of the constituent colls.

L. M. Young, MA S.A., PhD Camb, has been appointed secretary to the provisional council and registrar-designate of the univ.

It has been decided to accept the offer of the Uganda govt. to provide temp. office accomm. in Entebbe, Uganda, without prejudice to the final decision on the location of the headquarters of the univ. by the council of the univ. when it is formally constituted.

MAKERERE UNIVERSITY COLLEGE*

Founded 1949, previously established as Makerere College, 1922

Postal Address P.O. Box 262, Kampala, Uganda, East Africa

Cables and Telegrams Makcol, Kampala

Telephone Kampala 2471

VISITOR—H E SH FREDERICK CRAWFORD, GCMG, OBE

CHAIRMAN OF COUNCIL—SIR DONALD MACGILLIVRAY, GCMG, MBE

PRINCIPAL—B DE BUNSEN, CMG, MA Oxon

VICE-PRINCIPAL—Professor L C BLADLE, MA Camb

SECRETARY—A C T ROWE EVANS, BA Lond

REGISTRAR—P F VOWLES, MA Oxon.

BURSAR—J E BURROUGH

LIBRARIAN—H. HOLDSWORTH, MA Leeds, FLA

TEACHING STAFF

[†=Part-Time]

Art		Stuart, D D, MA <i>Cape T</i> , BLitt <i>Oxon</i>	Sr Lectr
Todd, C	Prof, Hd of Sch	Harris, R G., BA <i>Brist</i>	Lectr
Maloba, G P	Lectr	Macpherson, Mrs Margaret, MA <i>Oxon</i>	Lectr
Nuro, S J, DipFineArt <i>Lond.</i>	Lectr	Carlin, M M, BA <i>Rhodes & Camb</i>	Lectr.
Kingdon, J. S	Lectr	Dane, P, BA <i>Lond.</i>	Lectr.
		Whitlock, T. G., BA <i>Rand</i>	Lectr
Botany			
Land, Edna M, BSc PhD <i>Lav.</i>			
	Reader, Hd of Dept.	Geography	
Calder, E A, BSc <i>Leeds</i> , PhD <i>Lond.</i>	Sr Lectr	Baker, S J K, MA <i>Lav</i>	Prof
Milburn, T R, BSc <i>Durh</i>	Lectr	McMaster, D N, MA <i>Oxon.</i> , PhD <i>Lond.</i>	Sr Lectr.
Tallantire, Anne C., BSc <i>Durh.</i>	Lectr	Langlands, B W, BA <i>Lond</i>	Lectr.
Morrison, M E S, MSc PhD <i>Belf</i>	Lectr	Ominde, S. H., MA <i>Aberd</i>	Lectr
		McGrath, G, MA <i>Camb</i>	Lectr
Chemistry		Henderson, F P, BSc <i>Edin.</i>	(Geol.) Lectr.
Crawford, M M, DSc <i>Glas.</i> , PhD <i>Munch.</i>		Temple, P. H., BA <i>Lav</i>	Asst Lectr.
FRIC	Prof, Hd of Dept	Hoyle, B S, MA <i>Nott</i>	Asst. Lectr
Peal, W J., BSc PhD <i>Lond</i>	Sr Lectr		
Williams, J F. A., BSc PhD <i>Lond</i>	Lectr.		
Woodhead, M., BSc PhD <i>Leeds</i> , FRIC	Lectr		
Dandly, A J, BSc PhD <i>Bum</i>	Lectr.		
Mitchell, D L, MSc PhD <i>Qu</i> (Org C)	Lectr		
		Geology, see Geog.	
Economics			
Stonier, A W, MA <i>Oxon</i> , DPhil <i>Heidel</i>	Prof.	History	
Kennedy, T A, BA <i>Durh</i>	Lectr	Ingham, K., OBE, MC, MA DPhil <i>Oxon</i>	Prof.
Livingstone, I, BA <i>Sheff</i> , MA <i>Yale</i>	Lectr.	Beachey, R. W, BA <i>Qu</i> , PhD <i>Edin.</i>	Sr. Lectr
Ghai, D P., BA BPhil <i>Oxon</i> , MA <i>Yale</i>	Lectr	Gertzel, Cherry J., BA <i>W.Aust.</i> , BLitt	
		DPhil <i>Oxon.</i>	Lectr.
English		Whyte, J H, BA BLitt <i>Oxon.</i>	Lectr
		Carter, Jennifer J., BA PhD <i>Lond</i>	Lectr.
	Prof	Bridges, R C, BA <i>N Staffs</i>	Asst. Lectr

* Associate Member of the Association of Universities of the British Commonwealth

Law (at Dar es Salaam, see p. 390)

Weston, A. B., LLB *W. Aust.*, BCL *Oxon* Prof
Twining, W. L., MA *Oxon*, JD *Chic* Sr Lectr
McAuslan, J. P. W. B., BA BCL *Oxon* Lectr

Mathematics

Weiler, C. P., MSc PhD *Rand* Reader, Hd of Dept.
Phythian, J. E., MSc *Mane* Lectr
Hume, G. C., BSc *Lond* Lectr
Mann, C. D., MSc *Leeds* Lectr
Hawkes, T. O., BA *Camb* Lectr

Medicine, see below

Physics

Andrews, J. P., DSc *Lond.*, FIP Prof
Thomson, D. M., MA PhD *Camb.* Sr. Lectr.
Ball, C. J., MA PhD *Camb* Lectr
Rose, C. W., BSc BEng *Syd*, PhD *Lond* Lectr
Orr, D., BSc *Lond* Lectr

Political Science

Engholm, G. F., BSc(Econ) *Lond.* Sr Prof
Whitaker, P., MA *Dub.*, PhD *Mane* Lectr

Sociology and Social Anthropology

Southall, A. W., MA *Camb*, PhD *Lond* Prof, Hd of Dept.
Goldthorpe, J. E., MA *Camb.*, BSc(Econ) *Lond* Lectr.
Kumalo, C., MSocSc *Natal*, PhD *Boston* Lectr

Veterinary Science, see below

Zoology

Beadle, L. C., MA *Camb.* Prof.
Bolwig, N., MagScient DrPhil *Copenhagen* Sr Lectr
Wasawo, D., MA *Oxon.*, PhD *Lond* Sr Lectr
Miller, P. L., BA PhD *Camb.* Lectr
Thurston, June P., MA *Camb.*, PhD *Lond* Lectr
Visser, S. A., Ir *T.H. Delft* Nuffield Res Fellow
Banage, W. B. M. R., BSc *Lond.*, PhD *Durh* Res Fellow

AGRICULTURE

Agriculture

Wilson, F. B., MBE, MA DipAgric *Camb*, AICTA *Trin* Prof
Mahadevan, P., BSc *Ceyl*, PhD *Glas* (Animal Husb.) Sr Lectr
Boshoff, W. H., BSc(Eng) *Rand*, MSc(AgricEng) *Durh* (Agric Engin.) Lectr
Macdonald, A. S., BSc(Agric) *Durh* (Crop Husb.) Lectr
Belshaw, D. G. R., MA *Camb*, DipAgric *Oxon* Lectr

Agricultural Biology

Keay, Margaret A., MA *Cape T.*, PhD *Camb* Reader, Hd of Dept.
Huxley, A., BSc *R'dg* (Hortic.) Lectr
Goodchild, A. J. P., BSc *Lond* (Agric Zool.) Lectr
Bowden, B. N., BA BSc DPhil *Oxon* (Agric Bot.) Lectr
Fripp, P. J., BSc *Lond* Lectr

Agricultural Chemistry

Pawson, E., BSc PhD *Lond.*, FRIC Sr Lectr., Actg Hd of Dept
Aiman, Pamela, BSc *R'dg*, MSc *Lond* Lectr

EDUCATION

Education

Lucas, E., MA *Camb* Prof
French, A., BA *Oxon* Lectr
Creaser, H., BSc *Leeds* Lectr
Watson, T., MA *Camb* Lectr
Kajubi, W. S., MSc *Chic* Lectr
Harbottle, Mrs. Moira, MA *Glas* Lectr
Kent, R. B. Lectr
Youngson, W. H. A. Lectr

Educational Psychology

McAdam, K. J., BA BEd *Meib* Lectr, Hd of Dept

Language Method

Bright, J. A., BA *Lond* Reader, Hd of Dept
Wingard, P. G., MA *Oxon* Lectr
Mosha, M., BA *Lond*, MA *Mitch* Nuffield Res Fellow

MEDICINE

Anæsthetics

Steen, T. R., MB BChir *Camb*, FFARCS *†Lectr.

Anatomy

Galloway, A., MBE, MA MB ChB *Abend*, DSc *Rand*, FRSSAf, FRCS Prof
Allbrook, D. B., MB BS PhD *Lond* Reader
Chagula, W. K., MA *Camb* Lectr
Hall-Craggs, E. C. B., MA MB BChir *Camb*. Lectr
Kiryabwire, J. W. M. Temp Lectr

Gynaecology and Obstetrics

Rendle-Short, Coralie, MB ChM *Brist.*, FRCOG Prof
Trussell, R. R., MB ChB *Birm* First Asst
Kayton, Daphne Lectr
Mansfield, H. N., MD *Lond* *†Lectr
Alderdice, A. A., MD *Syd*, MRCP *†Lectr.

* Govt. Medical Service

Mitford Barberton, G. de B., BM

BCh Oxon.

*†Lectr.

Bulwa, F. M.

*†Lectr.

Tolley, Mary, MB ChB N Z., FRCS

*†Lectr

Medicine

Tulloch, J. A., MC, MD *Edn*, FRCPEd Prof

Shaper, A. G., MB ChB *Cape T.*, MRCP

Sr. Lectr., First Asst

Somers, K., MB BCh *Rand*, MRCP Lectr

Rankin, A. M., MB BS *Adel*, MRCP Lectr.

Banwell, J. G., MA BM BCh *Oxon*, MRCP

Lectr

Vaisey, J. M., MD *Camb*, MRCP

*†Lectr.

Alderdice, A. A., MD *Syd*, MRCP

*†Lectr

Lanceley, J. L., MD *Liv*, FRFPGlas

*†Lectr

Murray, T. W., MB ChB N Z., DPM

(Psychiatry) *†Lectr

James, Mrs Jean, MB ChB *Brist*

(Dermatol) *†Lectr

Kinner Brown, J. A., MD *Liv*

(Lepisy) *†Lectr

Pædiatrics

Jelliffe, D. B., MD *Lond*, FRCP

Prof

White, R. H. R., MD *Lond*

Lectr

Welbourn, Mrs. Hebe, MD *Birm.*

Lectr

Pathology

Davies, J. N. P., MD *Brist* Prof.

Wilson, A. A. M., BA BM BCh *Oxon*. Sr Lectr

Wright, D. H., BSc MB ChB *Brist*. Lectr.

McKinney, B. E. G., MB BCh BAO N U I

Lectr

Dodge, O. G., MD *Manc* Lectr.

Buck, S. C., MA MB BCh *Rand* *†Lectr.

Lothe, F., MB ChB *Sheff*, MRCPed *†Lectr.

Holland, J. T., MB ChB *Glas*. †Lectr.

Stansfield, D., MB BS *Lond* †Lectr

Pharmacology

Lock, J. A., BSc *Lond*.

Sr. Lectr.

Physiology

Luck, C. P., BSc MB BCh *Rand* Prof

Wright, P. G., BSc PhD *Lond*. Sr. Lectr.

Crawford, M. A., BSc *Edn* (Biochem) Lectr

Preventive Medicine

Bennett, F. J., MB ChB *Cape T.* Prof

Sr. Lectr

Surgery

McAdam, I. W. J., OBE, MB ChB *Ednn*.

FRCSed

Prof

Cook, J., MB ChB *Ednn*, FRCSEd First Asst.

Lunn, H. F., BSc MB BS *Lond*, FRCS Lectr.

Huckstep, R. L., MA MD *Camb*.

FRCSed, FRCS

Lectr

* Govt. Medical Service

Burkitt, D. P., MD BAO *Dub.*, FRCSEd

*†Lectr.

Ellis-Jones, D. W., MB ChB *Lec.*, DO

(Ophthalmol) *†Lectr.

Davies, A. G. M., MD DMRD *Brist* *†Lectr

Darling, J. S., OBE, MB BCh BAO *Belf.*, FRCS

Martin, J. A. M., MB BS *Lond*. *†Lectr.

Batten, K. L., MB BS *Lond*. *†Lectr

Ashman James, F., MB ChB *Brist*, FRCS

*†Lectr

Alker, M. J., BPh DDD *Northwestern*

(Dent Surg) †Lectr

Adatia, A. K., BDS *Lond* (Dent Surg.) †Lectr

VETERINARY SCIENCE

Polding, J. B., BSc PhD *Lond*. Prof

Barrett, M. A., BSc R'dg (Animal Husb) Reader

Luke, W. S., BA *Camb* (Vet. Med.) Reader

Simpson, Mrs Ruth M., BVSc *Liv*

(Vet Pathol) Reader

Harthoorn, A. M., DVSc *Utrecht*, FRCVS

(Vet Phscol) Sr Lectr.

Bosa, G. M., DipVetSc (Vet Anat.) Asst Lectr.

9 Lectrs.†

EAST AFRICAN INSTITUTE OF SOCIAL RESEARCH

Stenning, D. J., MA PhD *Camb*.

Sec., Appl. Res. Unit

Adam, Virginal, BA *Camb* Res Fellow

Dahya, B. W. Res Fellow

Harnsworth, Josephine, MSc(Econ) *Lond*

Res Fellow

Karim, S. K., BA *Ohio*, MA *Lond*

Res Fellow

Maleche, A., BA *Camb*, MA *Ohio* Res Fellow

Moody, R. W., BA *Camb* Res Fellow

Park, G. K., MA PhD *Chic* Res Fellow

Periman, M. C., BA *Balt Oxon* Res Fellow

Whisson, M. G., BA *Camb* Res Fellow

EXTRA-MURAL STUDIES

Moore, G. H., MA *Camb*. Dir.

Resident Tutors for Uganda

Fordham, P. E., BA *Leeds*

Clarke, R. F., BA *Camb*

Kronde, E., BA *Camb*.

Resident Tutors for Kenya

Prosser, R. C., BSc(Econ) *Lond*.

Richards, E. L. F., MA *Oxon*

Tanner, R. E. S., BSc *Oxon*

Resident Tutor for Tanganyika

Slee, A. C. T., BSc *Lond*, MA *S.A.*,

PhD *Cape T.*

ADMINISTRATIVE AND OTHER STAFF

Wardens: Mitchell Hall, Rev F B Welbourn, MA Camb.; Northcote Hall, H. P. Dinwiddie, MA Camb., New Hall, Mary Stuart Hall, Alice M. Burnett, MA Oxon.; University Hall, J W T Allen, MA Oxon.; Livingstone Hall, R A Hamilton, MA Oxon. Dep Librarian E J Belton, BA Oxon, FLA Asst Librarians Barbara M A Bee, BA Natal, FSALA, Priscilla

M Allen, BA Oxon, FLA; A J Baines, BA N.Staffs Chaplains: Rev D A. Payne, MA Oxon, (RC) Dep. Bursar: F G Sutton Asst. Bursars S S. Mullin; Phyllis M King, M J W Kanya, G. H. Layima Estates Officer H. C. Bulpin Farm Manager E H S Barlow

GENERAL INFORMATION

Makerere Coll. was founded in 1922 as a technical sch. under the educn. dept of Uganda admin. Following the De la Warr report in 1937, which pointed to the future of the coll. as a centre of higher studies in E. Africa, under the inspiration of Sir Philip Mitchell the coll. was presented with land and an endowment and a nucleus of its bldgs. Work on the present admin. block was inaugurated by H R H. the Duke of Gloucester, and the block with its twin chapels was completed in 1941. Support and benefactions from African and European sources have consolidated the inter-territorial status of Makerere. On the recommendation of the Asquith commission in 1945 it was definitely decided that the coll. should become the centre of univ. studies in E. Africa. A scheme of special relationship with the Univ. of London* was entered into at the end of 1949, whereupon the coll. assumed its present title. Courses leading to the general degrees of the Univ. of London in arts and sci. started at the beginning of 1950.

The coll. is wholly residential. It is open to all students, regardless of race, colour and religion, who have the academic qualifs. necessary for admission. Entries are accepted from any of the E. African territories, i.e. Kenya, Uganda, Tanganyika and Zanzibar. There is a limited number of places for students from other territories.

The coll. is situated on the outskirts of Kampala. The vet. sch. is at Kabete, near Nairobi. The farm for the fac. of agric. is at Kabanyolo, 13 miles from Kampala.

A major bldg. programme has been undertaken since 1948, financed mainly by grants of £2,200,000 from C.D. & W. funds. This includes a library, new teaching and res. bldgs. in all facs., 5 halls of residence, and accomm. for staff.

CONSTITUTION. This follows closely the pattern of the English civic univs., with a council consisting of lay and academic members as the governing body, and an academic bd. responsible for all academic matters.

INCOME (1959-60). £620,150 (endowment and grants, 34 per cent.; govt. grants, 90.6 per cent.; tuition fees, 4.6 per cent.; misc., 1.4 per cent.)

FACULTIES AND DEANS (1960-61). Agric., Prof F. B. Wilson; arts, Prof. S. J. K. Baker (geog.),

educn., J A Bright, law, Prof. A B Weston, med, Prof J N P Davies (pathol), sci., Dr Edna M. Lund (bot.), vet. sci., Prof J. B. Polding

LOCATION. The coll. is situated on Makerere hill, and the med. school (address P O Box 2072, Kampala) on the adjacent hill of Mulago, both on the outskirts of Kampala. The vet. sch. is at Kabete, near Nairobi (address P O Kabete, Kenya). A fac. of law is now established at Dar es Salaam, Tanganyika. It will eventually become part of Univ. Coll., Dar es Salaam (see p. 390).

LIBRARIES. Main library, approx. 70,000 vols., sub-library at med. sch., approx. 16,000 vols.

CHAPELS AND MOSQUE. There are 2 chapels (the chapel of St. Augustine for Roman Catholics and the chapel of St. Francis for members of other branches of the church) and a mosque.

TEACHING HOSPITAL. Govt. African hosp. at Mulago, Kampala, on the same site as the med. sch.

FACILITIES OF SPECIAL INSTITUTIONS. The East African Inst. of Soc. Res. is administered by the coll. Its main function is field res. in Uganda, Kenya, Tanganyika and Zanzibar, covering anthropol. studies in particular tribes, or urban surveys and comparative studies of particular aspects of problems of interest to all E. African territories in the field of sociol., econ., psychol., public admin. and law, and linguistic res.

ADMISSION. For admission to degree courses in the facs. of agric., arts and sci. the entry requirements approximate closely to those of the Univ. of London. For admission to dipl. courses or the licentiatehip in med. & surg. (LMS(EA)) passes in appropriate subjects must have been obtained in the H.S.C. or G.C.E. (A level). Admission to the sch. of fine art is by a sp. entrance exam. and by passes in the sch. cert. or G.C.E. (O level).

FIRST DEGREES (of Univ. of London). The following degrees may be taken under the scheme of special relationship: BA (gen.), 3 yrs., BA (hons.) in English, hist., geog., maths, 3 yrs.; BSc (gen.), BSc (spec.) in geog. & maths, 3 yrs.; BSc(Econ), BSc(Agric), 3 yrs.

* For a note on these 'special relationship' arrangements, see p. 961

HIGHER DEGREES (of Univ of London) MA, MSc, 2 yrs after first degree Open only to grads of Univ of London

DIPLOMAS, LICENTIATESHIP The coll awards dipls in vet sci. (4 yrs), educn. (non-grads, 2 yrs, grads, 1 yr) and fine arts (4 yrs.), and a licentiate in med. & surg (5 yrs) The LMS(EA) is a qualif registrable by the General Med Council of the U.K.

CERTIFICATES The coll. awards a cert in fine arts (2 yrs, identical with first 2 yrs of dipl course), and a cert in religious studies (3 yrs, may be taken concurrently with any final award)

LEAVE in the U.K. or at their homes for members of staff recruited from overseas 3 months every 2 yrs For locally recruited staff, 3 months in U.K. every 4 yrs

FEES Residence, £125, tuition. £42 (arts, sci, educn), £51 (med., vet sci).

ACADEMIC YEAR July to April 3 terms of 10 weeks

1961-62 July 17 to Sept. 19, Oct 9 to Dec 19, Jan. 22 to April 10

LANGUAGE OF INSTRUCTION English

ADULT EDUCATION. The dept. of extra-mural studies provides courses in Uganda, Kenya and Tanganyika

APPOINTMENTS BOARD Sec, R A Hamilton, MA Odon.

OLD STUDENTS' ASSOCIATION Makerere Coll. Union Soc. Further information from sec, c/o The Principal, Makerere Coll., P.O. Box 262, Kampala.

RESIDENCE (For wardens, see 'Admin and Other Staff', p 386) On admission to the coll, students reside in one of the halls of residence: Mitchell Hall (112 men), Northcote Hall (180 men), New Hall (160 men), Mary Stuart Hall (100 women), University Hall (160 men), Livingstone Hall (160 men) At Kabete, Kenya, there is accomm for vet sci students and at Kabanyolo for agric students in their first yr

STUDENT HEALTH SERVICE Free service (for all students) run by 2 coll med. officers (pt-time) and nursing staff (full-time) Clinic and ward accom Regular med exams

STUDENTS' UNION. Makerere Coll guild.

PUBLICATIONS. Calendar, Annual Report.

THE YEAR 1960

PRINCIPAL BENEFACTIONS Carnegie Corporation, \$62,000 for extra-mural work, Kenya, US pub health service, \$53,360 to Albany Med. Coll and Makerere Medical Sch for compar study of heart dis

(Total value of all benefactions received £78,000)

MAJOR BUILDING DEVELOPMENTS Bldgs completed. health centre, extns to sch of fine art, flats, squash courts and swimming-pool

RESIGNATIONS O W. Furley (hist), apptd lectr in hist, U.C. of West Indies, J W Lever (Engl), apptd lectr. in Engl, Durh, J Flatt (farm management), Prof G W Gale (prev med.), apptd WHO visiting prof, Prof A W Williams (med), apptd dir, postgrad med studies, Oxford, Prof A J Warner (Engl.), apptd prof of Engl, Magee Univ Coll, Mrs P. Warner (Engl); W Elkan (econ), apptd lectr. in econ., Durh, V G. Pons (sociol), apptd lectr in sociol, Manc; L H K Goma (zool), col. med res apptment, Ross Inst, G T. O'Connor (pathol.); J L Joy (agric econ), apptd sr res officer in farm econ., Camb, M V Temple (warden), apptd lectr in Engl, City of Birm Coll of Comm, G L Money (med), apptd lectr in med, Univ. Coll, Ibadan, E. M. Kibaki (econ), L E Harrison (phys), R F Naylor (chem), apptd prof of chem, Royal Coll, Nairobi, I W Hughes (extra-

mural), apptd. dir, extra-mural studies, Hong Kong

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	843	—
Women	68	—
Total	911	—

Distribution by Faculties Agric., 46, arts, 314, educn, 75, fine arts, 30, med., 140, sci, 280, vet sci, 26 Total 911

Included in the figures above are —

Postgraduate students, 4.

New admissions, 260

Students from other countries, 5 (from U.K.)

DEGREES AWARDED (1959-60) (sp relation with Univ of London) Arts BA, 33, BA (hons), 19

(Note due to lengthening of course no BSc degrees awarded this yr)

DIPLOMAS AWARDED (1959-60). Agric., 10; educn, 26, fine art, 3, med (licentiatehips), 9, vet, 5

CERTIFICATES AWARDED (1959-60). Religious studies, 14

ROYAL COLLEGE, NAIROBI

Founded 1961

Postal Address P O Box 30197, Nairobi, Kenya, East Africa

Cables and Telegrams Rotecoa, Nairobi, Kenya

Telephone . Nairobi 23316-7, 24008, 27702, 24078

VISITOR—SIR PATRICK RENISON, KCMG

CHAIRMAN OF COUNCIL—SIR PHILIP ROGERS, CBE

PRINCIPAL—J M HYSLOP, MA DSc Glas , PhD Camb.

VICE-PRINCIPAL—H P GALE, OBE, BA PhD Lond , DipEd Camb., FRHistS

TREASURER—E V WHITCOMBE, CBE

REGISTRAR—G W MANFIELD, BSc Lond

FINANCE OFFICER—J R. TOVILL

LIBRARIAN—D A. R KEMP, BA Durh , FLA

TEACHING STAFF

Accountancy

Ellmer, R E, MA Camb
Alderson, J A

Sr. Lectr
Lectr

Civil Engineering

Vivian, C P, BSc Lond.

Sr Lectr

Campbell, P A, BSc Rand
Aggarwal, S C, BSc(Eng) Lond ,
MSc Leeds

Sr Lectr
Lectr

Lectr

Architecture

le Briero, T. P.
Price, J. C. B., BA Lond
Morgan, D. L D
Munday, M. G.
Waldock, B D
Bull, E

Sr. Lectr
Sr Lectr
Lectr
Lectr.
Lectr.

Domestic Science

Ricketts, E, BSc Lond
Ward, A
Desai, S N, MA Med Bom , PhD Lond
Baron, M J.
Green, M.

Sr Lectr
Lectr

Lectr.

Lectr

Lectr

Art

Baynes, J
Baynes, Mrs U.

Sr Lectr
Lectr
Lectr.

Economics

Lomas, P K, BCom Durh , MCom Rand

Sr Lectr

Krishna, K G V, BA Mys., MA Bom

Lectr.

Botany

Isaac, W E., BSc PhD Wales

Prof, Hd of Dept.
Lectr

Electrical Engineering

Simmonds, R K, BSc(Eng) Lond
Wolfendale, E., BSc(Eng) Lond
Bhagwat, F. G , BSc(Eng) Lond

Sr. Lectr.

Sr. Lectr

Lectr.

Business Administration

Rodgers, W., MA Edn
Hannigan, A St. J, MA Dub , LLB
Waruhuu, S. N., BA LLB Wales

Sr Lectr
Lectr
Lectr.

English

Wing, G. D, MC, MA Durh.
Wright, E, MA Lond
MacBean, A. H W, OBE, MA Camb
Wallwork, Mrs. J F, BA Manc.
Denny, N V E, BA Rand

Sr Lectr

Sr. Lectr.

Lectr

Lectr

Lectr.

Chemistry

Naylor, R. F, BSc PhD Lond.

Prof, Hd. of Dept.
Lectr
Lectr.

Herbin, G A, BSc Lw
Desai, N. C., MSc Bom , PhD Lond
Odiambo, D, BSc Brist.

Asst. Lectr

Geography

Morgan, W. T W., MSc(Econ) Lond.,
PhD
Bullock, R. A, MA Belf.

Sr. Lectr

Lectr

Geology		Mechanical Engineering	
Loupeckine, I. S., BSc PhD <i>Brist</i>	Prof.	Judson, C. A., BSc <i>Leeds</i> , MIMechE	Prof
	Lectr	Lamond, S. R., BSc(Eng) <i>Lond</i>	Sr Lectr
		Grindrod, B	Sr Lectr
History		Watts, P. E., BSc <i>Lond</i>	Lectr
Gale, H. P., OBE, BA PhD <i>Lond</i> , DipEd <i>Camb</i> , FRHistS	Prof	Patel, R. P., BSc <i>St And</i>	(on leave) Lectr.
Mungeam, G. H., MA <i>Oxon</i>	(on leave) Lectr		
Kieran, J. A., BA <i>Liv</i>	Lectr	Physics	
Land Surveying		Hunter, A. N., BSc PhD <i>Lond</i>	Prof
Williams, H. S., BSc(Eng) <i>Rand</i>	Sr Lectr.	Raja, P. K. S., BSc <i>Madr.</i> , MSc	Sr Lectr
Hartog, P., BSc(Eng) <i>Rand</i>	Lectr.	Platt, C. M. R., MSc <i>Rhodes</i>	Lectr.
Ollivier, J. C., BSc <i>Nott</i>	Lectr	Quantity Surveying	
Mathematics		Nelms, R. H	Sr Lectr
Sears, D. B., DSc <i>Rand</i> , DPhil <i>Oxon</i>	Prof	Jones, J. T. E	Lectr
Williams, A. D., BSc <i>Lond</i> .	Lectr	Zoology	
Alala, M., MA <i>St And</i>	Lectr	Kettle, D. S., DSc <i>Lond</i>	Prof
Rosch, N. J., MSc <i>N Z.</i>	Lectr.	Coe, M. J., BSc <i>Lond</i>	Lectr
		Sale, J. B., BSc <i>Lond</i>	Lectr

GENERAL INFORMATION

The Royal Coll, Nairobi (which incorporates the Gandhi Memorial Academy), was founded in 1954 as the Royal Technical Coll. of East Africa, with a view to providing, for the economic development of the territories in East Africa, facilities in the following subjects for higher technological trg, for professional trg, for res., and for vocational trg either in conjunction with any other trg or separately therefrom: engin., sci., lab technol., sanitary sci., pharmacy, domestic sci., industry, comm., accountancy, econ, arts and art and artistic crafts.

Arising out of the *Report of the Working Party on Higher Education in East Africa* in 1958, the Royal Technical Coll. of East Africa was, by measures of reconstruction, transformed into the second inter-territorial univ coll in East Africa by act of the E. Africa High Commission in Jan 1961. A scheme of special relationship with the Univ of London* was entered into early in 1961 whereupon the coll assumed its present title. Courses leading to the general degrees of the Univ of London in arts and sci and to the degree of BSc(Eng) began in Oct 1961. The coll is residential and is open to all students without distinction of race or creed. Entries are accepted from any of the E. African territories.

The original bldgs were constructed from grants received from C.D. & W. funds, from the E. African govts, from the I.C.A. and from the Gandhi Memorial Academy. A 2nd major bldg programme began in 1960 from funds supplied under the C.D. & W. scheme. This includes a main library for 500,000 vols., sci bldgs. for phys and chem., a new bldg for civil engin, addnl hostels for men and women and an admin. block.

FIRST DEGREES (of Univ of London) The following degrees may be taken under the scheme of special relationship: BA (gen.), BSc (gen.), BSc(Eng), 5 yrs each (incl. 2-yr prelim. course for G.C.E. advanced level).

OTHER COURSES. Students of archit, land and quantity surveying are entered for the exams. of appropriate professl instns. In dom sci, students are entered for a teacher's dipl. recognized by the Univ of Manchester.

FEES Residence, £125, tuition £42 (arts, sci), £51 (engin.).

ACADEMIC YEAR Oct to June 3 terms.

LANGUAGE OF INSTRUCTION English

PUBLICATIONS *Calendar; Annual Report.*

THE YEAR 1960

Statistics

STUDENT NUMBERS (estimated), 1961-62

	Full-Time	Part-Time
Men . . .	400	—
Women . .	65	—
Total . . .	465	—

Distribution by Faculties. *Art & archit*, 68, *arts*, 75, *engin.*, 163, *sci*, 78, *sp professl studies*, 81. Total. 465

* For a note on these 'special relationship' arrangements, see p 961

UNIVERSITY COLLEGE, DAR ES SALAAM

Founded 1961

Postal Address. P O Box 9184, Dar es Salaam, Tanganyika, East Africa
Cables and Telegrams Univcol, Dar es Salaam
Telephone. Dar es Salaam 20377

CHAIRMAN OF PROVISIONAL COUNCIL—The Hon A Y A KARIMJEE, CBE
PRINCIPAL-DESIGNATE—R C PRATT, BA MCG, BPhil Oxon
REGISTRAR—H L SNAITH, MA St And
BURSAR—
LIBRARIAN—H HOLDSWORTH, MA Leeds, FLA

TEACHING STAFF

Law	Twining, W L, MA Oxon, JD Chic. Sr Lectr.
Weston, A B, LLB W.Aust, BCL Oxon Prof	McAuslan, J P. W B, BA BCL Oxon Lectr

GENERAL INFORMATION

The Univ Coll, Dar es Salaam, was establd. under the Univ. Coll, Dar es Salaam (Provisional Council), Ordinance, 1961. The first students from the 3 E African mainland territories are being admitted in Oct 1961. The coll will be primarily residential

CONSTITUTION The coll. is governed by a provisional council consisting of a chairman, vice-chairman, the principal-designate, 2 members apptd. by the Inter-University Council for Higher Education Overseas, 2 members apptd. by the Tanganyika Higher Education Trust Fund Bd of Trustees, 3 members apptd by the principal-designate from amongst the academic staff of the coll, 3 members apptd. by the governor of Tanganyika, 3 members apptd. by the governor of Kenya, 3 members apptd by the governor of Uganda, one member apptd. by the British Resident, Zanzibar, and such addtl members, not exceeding 3, as the governor of Tanganyika may appoint. The ordinance provides for an academic cttee. The functions of the provisional council include the planning, constrcn and establishment of a univ coll at Dar es Salaam, and the govt and admin thereof. The provisional council and the academic cttee are represented on the provisional council of the Univ of East Africa (see p. 382), of which the coll will be a constituent member.

INCOME It is intended that the coll. will derive its main income from grants made by the govts. of Tanganyika, Kenya and Uganda, and from the Tanganyika Higher Education Trust Fund. The secretary of state for the colonies has made a grant of £350,000, from Colonial Development and Welfare Funds, towards initial development

FACULTIES *Lato* Under a scheme of co-operation with Makerere Univ Coll (see p 383), the fac of law is establd as a fac of that coll but is physically sited in Dar es Salaam. The prof of law is a member of the academic bd of Makerere Univ Coll, which is responsible for the submission of a proposal regarding regns and syllabus to the senate of the Univ of London for inclusion within the 'scheme of special relationship' between Makerere Univ Coll and the Univ of London. The proposal of the academic bd is in respect of the inter exam in laws of the Univ of London to be held in June 1962. The scheme of co-operation between the Univ Coll, Dar es Salaam, and Makerere Univ Coll will terminate at a time largely dependent upon the date of the establishment of the Univ of East Africa.

Development is to be planned with a view to opening the fac of *arts* in the academic year 1964-65, and the fac of *sci.* in 1965-66.

ADMISSION Entry requirements to the fac. of law approximate closely to those of the Univ of London.

LOCATION The coll will be run in temp accom in the centre of Dar es Salaam whilst bldgs for the facs of arts and sci and law are being constructed on an 860-acre site on the outskirts of Dar es Salaam. The London firm of Messrs Norman & Dawbarn have been appointed as site planning consultants.

FEEs Residence, £125, tuition, £42

ACADEMIC YEAR. Provisionally 3 terms commencing Oct; dates yet to be fixed.

LANGUAGE OF INSTRUCTION English

RESIDENCE The temp. accom of the coll provides for the residence of 40 students

* For a note on these 'special relationship' arrangements, see p 961

GHANA

University of Ghana (p. 392)

Kwame Nkrumah University of Science and Technology (p. 396)

GHANA

UNIVERSITY OF GHANA

Founded 1961 ; previously established as University College of Ghana,* 1948

Postal Address : Legon, Ghana, West Africa

Cables and Telegrams : University, Legon

Telephone : Legon Exchange

(London Office : 15 Gordon Square, W.C.1 Cables : Univghana, London, W.C.1

Telegrams : Univghana, Westcent, London. Telephone : Euston 2119)

CHANCELLOR—OSAGYEFO K. NKURUMAH, BA STB Hon LLD *Lincoln*, MA MSc *Penn*, President of the Republic of Ghana

VICE-CHANCELLOR—N. K. NKETIA IV, DPhil *Oxon*.

REGISTRAR—

CHIEF ACCOUNTANT—G. M. ROBB, CA

LIBRARIAN—J. E. DEAN, MA *Oxon*

TEACHING STAFF

Agriculture

Wilson, A. S. B., BSc *Edin*

Bray, F. R., MA *N.Z.*

Harding, H. P., FRCVS

Constable, D. H., MSc *Lond.*

Rose-Innes, R., MSc *Rand*

Fry, N. C. V.

Montsma, G., Ir(LI) *Wageningen*

Greig, D., BSc *Leeds*, MSc *Durh*

Dow, M. G. C. M., BSc *Aberd*

Geurts, F. M., MSc *Wageningen*

Forsyth, J., BSc *Aberd*

Thompson, E. J., MS *Iowa*

Nungua Research Stn

Gaudie, M., BA *Camb* Asst. Farm Manager

Kade Research Stn.

Hagenzieker, F., MSc *Wageningen*

Langley, C. J., Res. Officer-in-Charge

Liefstingh, G., MSc *Wageningen* Farm Manager

Jordan, D., BSc *R'dg* Res. Officer

Kpong Research Stn Res. Fellow

Koval, J. M. L., MSc *Wales* Res. Officer-in-Charge

Res. Officer

Farm Manager

Archæology

Shinnie, P. L., MA *Oxon*, FSA Prof.

Davies, O., MA *Oxon*, DLitt *Dub.* Reader

Ozanne, P. C., BA *Camb* Asst Lectr

Botany

Sansome, F. W., BSc(Agric) PhD *Edin*, Prof.

FLS Sr. Lectr.

Lawson, G. W., BSc PhD *Lond.* Sr. Lectr.

Morton, J. K., BSc PhD *Durh* Sr. Lectr.

Harris, B. J., BSc PhD *Wales* Lectr.

Wilson, J. Y., BSc *Lond.*, PhD *Camb.* Lectr.

Lang, E., BSc *Lond.*, PhD *Camb.* Lectr.

Sansome, Eva, MSc *Durh*, DSc *Manch.* Lectr.

Chemistry

Israel, G. C., MSc *N.Z.*, FRIC Prof.

Torto, F. G. T. O'B., BSc PhD *Lond.* Sr. Lectr.

Blair, J. A., BSc PhD *Glas*, FRIC Sr. Lectr.

Quartey, J. A. K., MA PhD *Camb.* Lectr.

Bekoe, D. A., BSc *Lond.*, DPhil *Oxon*, Lectr.

Hutcheon, A. T., PhD *McG*, MSc *Sask.* Lectr.

Classics

Dicks, D. R., BA PhD *Lond* Prof.

Ofosu-Appiah, L. H., MA *Oxon* Sr. Lectr.

Kwapong, A. A., MA PhD *Camb* Sr. Lectr.

Barton, I. M., MA *Camb.* Lectr.

Hanson, J. O. de G., BA *Lond.* & *Camb.* Lectr.

Divinity

King, Rev. N. Q., MA *Oxon*, PhD *Nott* Prof.

Baeta, Rev. C. G., OBE, BA BD

PhD *Lond.*, Hon. DD *Tokyo* Sr. Lectr.

Hicks, Rev. D. C., MA BD *Glas* Lectr.

Dickson, Rev. K. A., BA *Lond.*, BLitt *Oxon* Lectr.

Stewart, J. V., BA *Oxon* Lectr.

* Associate Member of the Association of Universities of the British Commonwealth

Economics

Drewnowski, J., BSc(Econ) <i>Warsaw</i>	Prof
Tordoff, W., MA <i>Camb</i> , PhD <i>Lond</i>	Sr Lectr
Bevin, H. J., BSc(Econ) <i>Lond</i>	Lectr
Rimmel, D., BA <i>Sheff</i>	Lectr.
Hymers, S. H., BA <i>McG.</i> , PhD <i>M.I.T.</i>	Lectr
Fiejka, Z. M., PhD(Econ) <i>Warsaw</i>	Lectr
Berger, E. H., BA <i>Tor</i> , PhD <i>Lond</i>	Lectr
Cohen, C. D., BSc(Econ) <i>Lond</i>	Asst. Lectr
Killick, A. J., BA <i>Oxon</i>	Asst Lectr
Humphreys, Mrs Mary E., MA <i>Camb</i>	
Garlick, P. C., MA <i>Sheff.</i>	Res Fellow

Education

Kaye, B. L. B., BSc(Econ) PhD <i>Lond.</i>	Sr. Lectr
Andrews, H. J., MA <i>Oxon.</i>	Lectr.
Chaplin, B. H. G., BSc <i>Mane</i>	Lectr.
Pritchard, D. F. L., MA DipEd <i>Lond.</i>	Lectr.

English

Dunn, T. A., MA PhD <i>Edin</i>	Sr Lectr
Stock, T. A., MA <i>Oxon</i>	Lectr
Storch, R. F., MA <i>Oxon.</i>	Lectr.
Mayhead, R., MA <i>Camb</i>	Lectr.
Senanu, K. E., BA <i>Lond & Camb</i>	Lectr

French Studies

Jones, R. A., MC, MA <i>Lond</i>	Prof.
Knight, E. W., BA <i>Brown</i> , DUParis	Lectr
Amonoo, R. F., BA <i>Lond</i> , MA <i>Mane</i>	Lectr

Geography

Boateng, E. A., MA BLitt <i>Oxon</i>	Prof
Hilton, T. E., MA <i>Mane</i> , PhD <i>Lond</i>	Sr Lectr
Hunter, J. M., BA PhD <i>Rdg</i>	Lectr.
Dickson, K. B., BA PhD <i>Lond</i>	Lectr.
Hilling, D., BSc <i>Wales</i>	Lectr.

Geology

McCallien, W. J., DSc <i>Glas.</i>	Prof.
Smit, A. F. J., MSc <i>Amst</i>	Lectr
van Landewijk, J. E. M., DSc <i>Utrecht</i>	Lectr
Walton, B. J., BSc PhD <i>Lond.</i>	Lectr.
Austin, W. G. C., BA <i>N.Staffs</i>	Lectr.

History

Irwin, G. W., MA <i>Camb & N.Z.</i> , PhD <i>Camb.</i> , BA <i>Adel.</i>	Prof Sr. Lectr. Sr. Lectr
Lander, J. R., MA MLitt <i>Camb.</i>	
Priestley, Margaret A., MA <i>Camb</i> , BLitt <i>Oxon</i>	Lectr
Sprigge, R. G. S., MA <i>Camb</i>	Lectr.
Boshen, A. A., BA PhD <i>Lond</i>	Lectr
Tufuoh, I. A., BA <i>Lond</i>	Lectr

Fearn, Rev. H., MA <i>Sheff & Camb</i> , PhD <i>Lond</i>	Lectr
---	-------

Law

Lang, J. H. A., LLB <i>Lond.</i>	Prof
Bentsi-Enchill, K., MA <i>Oxon</i>	Sr Lectr
Pooley, B. J., BA LLB <i>Camb</i> , LL.M	
SJD <i>Mich</i>	Lectr
Kuma, A. C., BA <i>Dub & Oxon</i> , LLB <i>Dub</i>	Lectr

Mathematics

Clarke, L. E., MA PhD <i>Camb</i>	Prof
Campbell, M. O'N., MA PhD <i>Camb</i>	Sr. Lectr
Hartley, Elizabeth M., MA PhD <i>Camb</i> ,	Lectr
Baines, M. J., BSc <i>Lond</i>	Lectr

Philosophy

Gibbons, P. C., BA <i>Syd.</i> , BPhil <i>Oxon.</i>	Prof
Collins, E. F., BA <i>Camb.</i>	Lectr
Gjertsen, D., BA <i>Leeds</i>	Asst. Lectr
Cohen, Brenda M., BA <i>Lond</i>	Asst. Lectr

Phonetics

McCallien, Mrs Catherine, MA <i>Glas</i>	Sr Lectr
Woolley, J. S., MA <i>Oxon</i>	Lectr
Stirling, W. F., BA <i>Lond</i> , LicdeFil <i>Madrid</i>	Lectr
Moonie, Irma F., MA <i>Edn</i>	Lectr
Hubbard, Wendy E., BA <i>Leeds</i>	Lectr

Physics

Wright, R. W. H., BSc PhD <i>Lond.</i>	Prof
Ward, A. H., BSc PhD <i>Bum</i>	St. Lectr
Koster, Rev. J. R., MS <i>De Paul</i> , PhD <i>Lond</i>	Lectr
Hutton, V. Rosemary S., MA <i>St And.</i>	Lectr
Osborne, D. G., BSc PhD <i>Durh</i>	Lectr
McClelland, J. A. G., BSc <i>Belf.</i>	Lectr
Grimes, L. G., BSc PhD <i>Brist</i>	Lectr
Clemesha, B. R., BSc <i>Lond</i>	Res Fellow

Sociology

Smith, R. T., MA PhD <i>Lond</i>	Prof
Rollings, P. J., BSc(Soc) <i>Lond</i>	Lectr
de Graft-Johnson, K. E., MA <i>Lond</i>	Lectr
Fiscian, C. E., BA PhD <i>Lond</i>	Lectr
Brokensha, D. W., BA <i>S.A.</i> , MA <i>Camb</i> , BLitt <i>Oxon.</i> (Soc Admnn.)	Lectr & Tutor
Omani, T. P., MSc PhD <i>Wis</i> (Soc Admnn.)	Lectr
Njusane, E. G. M., BA <i>S.A.</i> , BSocSc <i>Natal</i>	Lectr

Zoology

Purchon, R. D., BSc PhD <i>Brist.</i> , FLS	Prof
Thomas, J. D., BSc PhD <i>Wales</i>	Sr Lectr
Mead, A. P., BSc <i>Brist</i>	Lectr

Jago, N. D., BSc *London*
 Hughes, B., BSc *London*

Lectr	Andoh, A. S. Y., MA <i>St. And.</i> , BA <i>Oxon.</i>	
Lectr		Resident Tutor
Lectr	Ampene, E., MA <i>London</i> .	Resident Tutor
	Holden, J. J., MA <i>Oxon.</i>	Resident Tutor

EXTRA-MURAL STUDIES

Kimble, D., BA *R'dg* Dir.
 Jones-Quartey, K. A. B., AM *Col* Asst. Dir.
 de Graft-Johnson, J. C., BCom *MA*
 PhD *Edin* St. Resident Tutor
 Wilks, I. G., BA *Wales* Resident Tutor
 Goodland, T. M., MSc(Econ) *London*.
 Resident Tutor
 Bertelsen, P. H., CandPol *Copenhagen*,
 MA *Camb.* Resident Tutor

INSTITUTE OF AFRICAN STUDIES

Nketa, J. H., BA *London*. Sr Res Fellow

INSTITUTE OF EDUCATION

Dir
 Lectr
 Fiwoo, D. K., MA *Col*, PhD *Edin*.
 Res Fellow

ADMINISTRATIVE AND OTHER STAFF

Med Officer A. M. Boyd, BSc MB ChB
 DPH *St. And.*, DTM&H *London*. Asst. Med.
 Officer S. A. Banful, MB BS *Durh.* Asst.
 Registrars D. E. Bennett, MA *Camb.*, C. K.
 Gbaho, BA *London*, G. R. Gyamerah, BSc(Econ)
London, T. A. Mensah, BA LLB *London*, E. O.
 Dodoo, BA *London* Asst. Chief Accountant
 S. K. B. Taylor Asst. Librarian Elizabeth M.
 Moyes, BA *London* Jr Asst. Librarian E. Y.
 Amedekey, BA *London* Sec. to Inst. of Educn.

N. O. Anim, BA *London*, MA *Claremont* Man-
 ciple G. A. Deegan Hds of Halls of Resi-
 dence (Legon Hall); D. Kimble, BA
R'dg (Akuafio Hall), (Commonwealth
 Hall), Catherine McCallien, MA *Glas* (Volta
 Hall) Hall Bursars (Commonwealth
 Hall); Olive I. Robinson, BA *Camb* (Volta Hall).

LONDON OFFICE W. G. Sewell, MSc *Leeds*,
 Asst. Registrar (London)

GENERAL INFORMATION†

The coll. is an independent instn. governed by a council which was incorporated by the Univ. Coll. of the Gold Coast Ordinance (Gold Coast No. 6 of 1948).

CONSTITUTION The senate consists of all full-time teaching, res. and admin. officers above a certain seniority. The facs and fac. bds, the financial bd, and other bodies, all consist of members of the senate. The duty of submitting resolutions to the senate is entrusted to a council elected by the senate and advised by a general bd of the facs and by the financial bd.

INCOME Govt. grant, £850,000; fees, £63,159, other income, £92,417.

Grants totalling £2,897,000 have been made by the Cocoa Marketing Bd for the devel. of agric. and for general purposes. In addn, the govt. has made grants for bldg. and equipment totalling £6½ million. A grant of £400,000 has been made from Colonial Devel. and Welfare funds towards a hall of residence. A further capital grant of £1,800,000 has been promised by govt. for the next quinquennium to complete the first phase of devel.

FACULTIES Agric., arts, biol. scis., phys. scis., soc. studies

COLLEGE PRECINCT A site of 5 sq. mls. near Accra, presented by the govt., is being developed

for the permanent bldgs. of the coll. The first phase of devel. provides for a fully residential coll. of 1000 students. The ultimate devel. is planned for 5000 students. All depts. and all students are housed in new bldgs. on the permanent site at Legon.

LIBRARY. 120,000 vols., more than 2800 periodicals are taken. Special West Africa collection.

BOTANICAL GARDEN GEOPHYSICAL RES. STN. AGRIC. RES. STNS. at Nungua, Kade and Kpong.

ADMISSION Entry through annual competitive exams. Candidates must have satisfied the entry requirements of the Univ. of London (see Appendix II). Admission is open to men and women of all nationalities and races.

FIRST DEGREES (of Univ. of London) Admitted in 1948 to sp. relationship with the Univ. of London* (as envisaged in the Asquith Commission's report on higher educn. in the colonies, 1945), the coll. provides courses for the London BA (gen.), BSc (gen.), BA (hons.) (in classics, divinity, Engl. French, geog., hist., philos., sociol.), BSc (spec.) (in bot., chem., geol., maths., phys., zool.), BSc(Econ), BSc(Soc) and BSc (Agric).

HIGHER DEGREES (of Univ. of London). Work for the MA and MSc degrees of the Univ. of

* For a note on these 'special relationship' arrangements, see p. 961

† The information which follows relates to the University College of Ghana, now replaced by the University of Ghana which was established on 1st Oct. 1961 by the University of Ghana Act 1961

London can be undertaken in all depts. by students who are London grads. Full-time teaching or res. officers of the coll. may register for the PhD of London under the internal regns.

CERTIFICATES 1 yr.—postgrad cert in educn. (of Univ of London), coll. associate cert in educn. (for experienced non-grad teachers only), 2 yrs.—coll. cert in soc. admin. (for experienced soc. workers)

INSTITUTE OF EDUCATION (see also 'Teaching Staff', above) Provides 1-yr. courses for grads and non-grads (see 'Certificates', above)

FEES. Inclusive fee for tuition and residence for undergrads, £100 p.a., for postgrad students, £200 p.a.

ACADEMIC YEAR 3 terms of 10 weeks each 1961-62—Michaelmas: Sept. 26 to Dec. 8; Lent: Jan. 17 to March 23; Trinity: April 13 to June 29

LANGUAGE OF INSTRUCTION English

EXTRA-MURAL WORK Sessional classes, short residential courses, week-end conferences, occasional lectures and annual residential New Year sch. lasting about a fortnight

STUDENT RESIDENCES. All students are required to reside full-time in coll., undergrads for at least 3 yrs. There are 4 halls of residence (for hds, see 'Admin and Other Staff', above) For men: Legon Hall (180 students), Akuafo Hall (180), Commonwealth Hall (280) For women: Volta Hall (ultimately about 150)

STAFF RESIDENCES Staff accomm. provided by the coll. at a charge not exceeding 75 per cent of salary.

PUBLICATIONS *Annual Report*; *Universitas* (three yrly.), 28.

BOOKSHOP

THE YEAR 1960

RETIREMENTS Prof. E. E. Edwards (zool.), Miss M. A. Tazelaar (zool.).

DEATH Prof. J. H. Blaney (maths)

RESIGNATIONS Dr. C. B. Ashanin (div.), Dr. D. S. Coombs (hist.), apptd. to post with British Council, Miss Lindsay Crisp (phonetics), returned to Edin. at end of period of secondment, Dr. R. L. Curtis (French), apptd. lectr., Westfield Coll., Lond., R. H. F. Dalton (Inst. of Educn.), apptd. lectr. in educn., Birm., P. A. Dixon (bot.), returned to Birkbeck Coll., Lond., at end of period of secondment, Dr. D. T. Gauld (zool.), apptd. lectr., Aberd., R. H. Howorth (classics), apptd. asst. dir. of exams in classics, Civil Service Commission, London, Dr. R. Mansfield (phys.), returned to Bedford Coll., Lond., at end of period of secondment; Dr. W. Manshard (geog.), apptd. lectr. in geog., Univ. of Cologne; B. J. Medlin (philos.), Prof. L. A. Montz (classics), returned to Univ. Coll. of S. Wales and Monmouthshire, at end of period of secondment, P. H. Nye (agric), apptd. to post in agric. unit of res. and isotopes div. Internat'l Atomic Energy Agency, Vienna; S. B. Ofori (agric), apptd. chairman, Ghana Agric. Development Corp., E. N. Ornaeoe (econ), apptd. dep. govt. statistician, Ghana, F. L. Roberts (asst. registrar), apptd. registrar, Loughborough Tech. Coll., B. P. Ruxton (geol), apptd. to post in bureau of mineral resources,

Melbourne, Dr. J. J. Scausbliek (hist.), returned to Queen Mary Coll., Lond., at end of period of secondment; Prof. D. Taylor (philos), apptd. to chair of philos., Otago; Dr. J. A. Wallwork (zool.), apptd. to post in Univ. of Kentucky

Statistics

	STUDENT NUMBERS, 1959-60	
	Full-Time	Part-Time
Men *	568	—
Women	41	—
Total	609	—

Distribution by Faculties: Agric, 43, arts, 239, sci, 124, soc. studies, 203. Total: 609.

Included in the figures above are —

Postgraduate students, 14 (incl. students for postgrad. cert. in educn.)

New admissions, 250

Students from other countries, 23 (Country from which largest number came: Nigeria, 19)

DEGREES AWARDED (sp. relationship with Univ. of London) (1959-60) BA general, 20, BA hon. 36, BD, 1, BSc(Econ), 33, BSc(Soc), 1, BSc general, 25, BSc spec, 9, BSc(Agric), 13

CERTIFICATES AWARDED (1959-60) By Coll. soc. admin., 10, assoc. cert. for non-grad teachers, 19. By Univ. of London: educn., 11

KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY

Founded 1961; previously established as Kumasi College of Technology 1951

Postal Address Kumasi, Ghana, West Africa

Cables and Telegrams University, Kumasi

Telephone 3201-3210

CHANCELLOR—Osagyefo K. NKRUMAH, BA STB Hon. LLD Lincoln, MA MSc Penn, President of the Republic of Ghana

VICE-CHANCELLOR—R. P. BAFFOUR, OBE, BSc(Eng) Lond, MIMechE

REGISTRAR—K. A. OBESE-JECTY, BA Lond

LIBRARIAN—G. M. PITCHER, FLA

CHIEF ACCOUNTANT—I. A. MENSAH

TEACHING STAFF

Agriculture

Twum-Berima, K., MA DipAgric Camb, DTA Trin Hd of Sch
Gordon, J., BSc BAgric Belf, AICTA Trin Sr Lectr.
Town, P. A., BSc DipHort Brut Sr Lectr.
Kannegister, A., Ir(LI) Wagenengen Lectr.
Ennin, I. Lectr.
Sey, S., BSc(Econ) Lond Lectr.
Roy, B. N., MSc Calc, PhD Aberd Lectr.
Adjaye, E. C. O., MSc Durh Lectr.
Zwart, D., Drs VetSuig Utrecht Lectr.
Netscher, C., MSc Wagenengen Lectr.
Ramchandra, R., BSc DipAgr(Eng) Alld Lectr.
2 Tech Instrs

Windsor, J. S., DIC, BSc Lond, MSc Ill

Ridley, P. G., BSc Lond Sr Lectr.
Cleure, C. W. Lectr.
Coussell, D. E., BSc Lond Lectr.
Ashkenazi, V., BSc CE Haifa Lectr.
Ruddock, E. C., BA MSc(Eng) Lectr.
Kotowicz, M. S., Mgrinz Demr.
Addison, J. K. Demr.
Hagan, R. K. Demr.

Engineering, Electrical

Lyddiard, J. A., BSc Burm. Hd of Dept.
Jaworski, Z. E., DipIng Sr Lectr.
Giesner, D., BScTech Manc Sr Lectr.
Holdsworth, B., BSc Lond Si Lectr.
Caesar, V. O., BSc BSc(Eng) Lond Lectr.
1 Tech Instrs

Engineering, Mechanical

Southwell, J. A., BSc(Eng) Lond Principal Lectr.
Berzins, A., BEng Liv Sr Lectr.
Buckerfield, G. M. Lectr.
Quansah, W. A., BSc Lond Lectr.
Richards, W. J., BSc(Eng) Lond Lectr.
Gott, J., BSc(Eng) Lectr.
McKenzie, D., BSc Lectr.
Waller, G. E. D., BSc(Eng) Lectr.
Wynne-Wynne, E. R. Demr.
3 Tech Instrs

Fine Art and Crafts

MacKendrick, J. M. Hd of Dept.
Opoku, A. M. Lectr.
Dobson, D. K. Lectr.
Reddick, P. G., DipFA Lond Lectr.
Asihene, E. V. Lectr.

Architecture, Town Planning and Building

Hobbs, C. I. Hd of Sch.
Evans, H. G. Sr Lectr.
Dix, G. B., BA DipTP Manc. Sr Lectr.
Marles, E. F. Sr Lectr.
Fullerton, R. L. Sr Lectr.
Christians, L. Lectr.
Danby, M. W. Lectr.
Gray, N. Lectr.
Jones, D. G. Lectr.
Welch, J. D. Lectr.
Adu-Dankor, M. Lectr.
Stanton, G. R. T., DiplArch Wales Bldg. Res Officer.
Fewings, B. T., BA Lectr.
Wood, G. Lectr.

Engineering, Civil

Levine, C., BSc PhD Lond Hd of Dept., Dir of Sch. of Engrs

Liberal and Social Studies

Macmillan, M, MA <i>Aberd</i>	Hd of Dept
Thomas, L J, BA <i>Wales</i>	Sr Lectr
Opoku, S K, BA DipEd <i>Lond</i>	Sr Lectr
Nyarko, K A J, BA DipEd <i>Lond</i>	Lectr
Stokes, J; MA <i>Sheff</i>	Lectr
Bartels, V, MA <i>Oxon</i> , DipEd <i>Lond</i>	Lectr
Soyinka, Mrs B, BA <i>Leds</i>	Lectr
Kotei, N A, BA <i>Lond</i>	Lectr
Graham, C K, BA <i>Lond</i>	Lectr
Prah, D W., MA <i>St And & Colorado</i> , DipEd <i>Lond</i>	Lectr
Arnold, F E A, BA <i>Lond</i>	Lectr

Pharmacy

Allman, E	Hd of Dept
Caldwell, A F, BPharm <i>Lond</i>	Sr Lectr
Gyang, E A, BPharm <i>Lond</i>	Lectr
Tacke, A N., BPharm <i>Lond</i>	Lectr
Heman-Ackah, S. M., BPharm <i>Nott</i>	Lectr.

Science

Whittaker, K C, MA DipEd <i>Oxon</i> , BSc <i>Lond</i>	Sr Lectr
Humphrey, C A, MA <i>Oxon</i> , DipEd	Sr Lectr
Kufuor, F A, BSc PhD <i>Brist</i>	Lectr
Holmes, J K, MA <i>Camb</i>	Lectr
Barry, D H., BSc <i>Lond</i>	Lectr
Kootin-Sanwu, M, BSc <i>Lond</i>	Lectr
Lindsay, J E O, BSc <i>Manc</i> , DipEd <i>Lond</i>	Lectr
Taylor, A. M., MA <i>Oxon</i>	Lectr.
Klaver, Rev Fr C. J., BSc <i>N U I</i>	Lectr
Abbiw-Jackson, D K, BA <i>Camb.</i> , BSc <i>Lond</i>	Lectr.
Bampo, S O, BSc <i>Lond</i>	Lectr
Hallet, J D, BSc <i>Lond</i>	Lectr
Dadson, V C, BSc <i>Lond</i>	Lectr
Allotey, K K A, DIC	Lectr.
Oteng, R, BSc <i>Lond</i>	Lectr.

ADMINISTRATIVE AND OTHER STAFF

Sr Asst Registrar E A Bainor Asst
Registrars: W P K Akoto, BA *Lond.*, (London
Office) J A Ata, BA *Lond*, V O D Twum-
Barima, BA *Lond*, E A Accam, BSc(Econ)
Lond; S Boateng, BA DipEd *Lond* Admin

Office: W Bart Plange Accountant E A
Odonkor. Med Officer L R Roberts, BA
DTM&H *Lond*, MB ChB *Edin* Chaplain. Rev.
G K Sintim-Misa, BD *Lond* Dep Librarian
Mrs R D E Young, FLA

GENERAL INFORMATION

The Kumasi Coll of Technology was establd
as the Kwame Nkrumah Univ of Science and
Technology, from Sept 30, 1961

Establd by govt ordinance in Oct 1951, the
coll. opened in 1952 with 200 teacher trg students
in residence, later in 1952 the first engin and
comm students were admitted. In 1953 courses
in pharm and agric began and in 1957 the sch of
archit, town planning & bldg was inaugurated.
As the coll expanded, it became necessary to
remove the teacher trg courses (in 1958) and the
comm dept (in 1959) to Winneba and Achimota
respectively. It was in 1959 that students of the
coll first gained external BSc(Eng) degrees of the
Univ of London

CONSTITUTION Governing council consists of
chancellor, vice-chancellor and chairman of univ
council, 4 persons apptd by chancellor, sec of
Natl Council for Higher Educn & Res, 1 rep
of hds of sec schs, 1 person elected from st
staff of an African univ, 1 person elected from a
univ. outside Africa, 4 persons elected by the
univ.

INCOME (1959-60) £G658,340 Funds for
capital devel £G970,246

FACULTY, SCHOOLS, DEPARTMENTS Fac.
engin, schs agric, archit, town planning &
bldg; depts fine art & crafts, liberal & soc
studies, pharm, sci

UNIVERSITY PRECINCT Situated 4 miles from
Kumasi on a 4 square-mile campus, the univ has
3 permanent halls of residence for men, a temp
hall for women and a 4th permanent hall nearing
completion. There are also 4-storyed gen
lecture block, 2 engin workshops, pharm block,
maths & phys block, sci labs and facilities for
sports & athletics. Univ is non-denominational
but there are 2 chapels for Protestants and Roman
Catholics

Extensive bldg programme exists to meet the
needs of the new univ

LIBRARY Over 24,000 vols

LABORATORIES Agric, bot, bldg res, chem,
engin, maths, phys, radio res, tool

ADMISSION For admission to courses which
prepare students for direct entry to the BSc(Eng)
degree and pharm dipl courses, G C E ordinary
level or school cert grade I or II with minimum
of 5 credits is required. For direct entry to
BSc(Eng) and pharm dipl courses, higher sch
cert or G C E advanced level is required. Ad-
mission to other courses is at pre-entry level and
preparatory courses are integrated with main
courses

FIRST DEGREES 4 yrs —BSc(Eng)

DIPLOMAS 3 yrs —pharm (grad level), 4
yrs —arts & crafts, bldg technol, trop agric
(each non-grad)

GHANA

CERTIFICATES. 4 yrs —pharm

STUDY LEAVE. Ghanaian staff members granted leave to study overseas for postgrad qualifs to fit them for sr. posts in the univ

FEES (incl tuition & boarding) £G66-£G100 according to courses (may be increased to £G185 or £G200 p.a after Sept 1961)

ACADEMIC YEAR Sept/Oct-June

LANGUAGE OF INSTRUCTION. English.

RESIDENCE All students and staff accommodated on campus.

HEALTH SERVICE. Univ hosp provides med facilities for students and staff

STUDENT ACTIVITIES At least 18 student societies approved by academic bd, rll student activities being co-ordinated by student council Sports athletics, basket-ball, cricket, football, hockey, net ball, table and lawn tennis, volley ball

PUBLICATIONS *Calendar; Journal*

THE YEAR 1960

(Kumasi College of Technology)

PRINCIPAL BENEFACTIONS Commonwealth development & welfare grant, £G55,000, Rockefeller Foundation, £G15,000

MAJOR BUILDING DEVELOPMENTS *Bldgs completed* Queen Elizabeth hall, sch of archit, 8 sr staff houses. *Approaching completion:* Re-public hall; library, maths & phys block

RESIGNATIONS Dr W E. Duncanson (principal), G R E Griffin (bldg technol), B J Burton (land surveying); B. W McMullen (maths)

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	503	3
Women	9	—
Total	512	3

Distribution by Schools, etc *Agric.*, 61, *archit, town planning & bldg*, 78, *engin*, 201, *fine art & crafts*, 22, *pharm*, 35, *sci*, 118
Total 515

Included in the figures above are —

Postgraduate students, nil

New admissions, 203

Students from other countries, 19 (Country from which largest number came Nigeria, 16).

DEGREES AWARDED (Univ of London external) (1959-60). BSc(Eng), 3

DIPLOMAS AWARDED (1959-60) Fine art & crafts, 2

CERTIFICATES, ETC, AWARDED (1959-60) *Agric*, 9, *pharm*, 8, *surveying* (inter R I C S), 5

HIGH COMMISSION TERRITORIES

Pius XII College, Basutoland (p 400)

HIGH COMMISSION TERRITORIES

PIUS XII COLLEGE

Founded 1945

Postal Address · P O Roma, Basutoland, Southern Africa

Cables and Telegrams · Picoel, Maseru

Telephone Roma 5

CHANCELLOR—H E. ARCHBISHOP G. McGEOUGH, DD, Apostolic Delegate to Southern Africa

RECTOR—Very Rev L. DOZOIS, PhD Ott., DD SSL Greg.

VIC-RECTOR—Rev. D TUOHY, BA Rand, MA N.U.I.

REGISTRAR—Rev Y M PÉRIGNY, PhL STL Ott., BA Laval, PostgradCertEd Lond

BURSAR—Rev E HICKY

LIBRARIAN—Rev. E RUCH, LPh STL Greg., DLittPhil S.A

ACCOUNTANT—J. ARMOUR, CA

TEACHING STAFF

African Languages		History	
Sibisi, R C, BA BEd S.A	Lectr.	McCarthy, Rev. P., MA W Aust.,	
Teketeke, J, BA S A	Lectr	DPHil Oxon.	Lectr.
		Sylvain, Rev G., MA McG	Lectr.
Afrikaans and Dutch		Mathematics	
Gomes, Rev J D., UED MA Potchef	Lectr	Uszczapowski, G., DiplIng TH Aachen	Lectr
		Varadachari, V C, MSc S Venhat	Lectr
Botany		Philosophy	
Ruch, M., LicScNat Stras	Lectr.	Ruch, Rev E, LPh STL Greg.,	
Morgan, D, BSc Durh	Lectr	DLittPhil S A	Lectr
		Gagné, Rev J, BA LPh STL Ott	Lectr
Chemistry		Physics	
Davies, W G, MSc Cape, PhD R'dg	Lectr	Bacher, Rev R., DrRerNat Freib	Lectr
Caldow, G. L, DPhil Oxon	Lectr		
Economics		Political Science	
Walshe, P, MA Oxon.	Lectr.	Stevens, R P, MA PhD Georgetown	Lectr
Biemans, J, MA Stan., EconDrs EH			
Tilburg	Lectr.		
Education		Psychology	
Auger, Rev G A, MA STL PhD Ott.,		Fehy, Rev D., MA Oxon & Fordham,	
UED Tor, BEd O F S	Lectr	PhL STL Greg.	Lectr
Van Haght, C, PhD Chic	Lectr.		
English		Sociology	
Stewart, J. E., LLB Cape, MA Camb.	Lectr.	Cabon, Rev. H., MA S.A., DSoc Paris	Lectr.
Thompson, D, MA Glas.	Lectr		
Tuohy, Rev D, BA Rand, MA N.U.I	Lectr	Zoology	
		Thelejane, T S, MSc Rhodes	Lectr
Geography		EXTENSION DEPARTMENT	
Schmitz, G, PhysGeogD PhD Utrecht	Lectr.	Brossard, Rev. G, AgrD S.A.	Lectr.
Smits, L. G. A., Drs Utrecht	Lectr		

GENERAL INFORMATION

The coll began in 1945 to work for Catholic higher educn in Africa. 'Statutes' approved by the Sacred Congregation for Seminaries and Univs. in 1955 established govt of the coll in a council advised by a senate in all academic matters. The congregation of the Oblates of Mary Immaculate, who also conduct the Univ of Ottawa, Canada, is in charge. Staff, consisting mostly of lay people, and students include a significant number of non-Catholics. This deliberately pursues the fundamental aim of contributing to the African scene, genuine univ objectivity, autonomy and love of truth and, within an atmosphere of tolerance, a Christian mind and Christian values. The coll has been entirely gift-supported.

FACULTIES AND DEANS *Arts*, Rev Fr D. Tuohy (Engl), *educn*, Rev Fr G A Auger; *sci*, Rev Fr D Fahy (psychol), *soc sci*, Rev Fr H Cabon

COLLEGE SITE The main site of 108 acres is in Roma valley, 25 miles E of the territorial capital, Maseru. An over-all development plan exists to provide for a student enrolment of 1000. Present facilities include central admin block with 2 wings, a monastery and a men's hostel, power plant, warehouse and garage, dining block, temp arts block, women students hostel, incl chapel, sci block incl physiol, chem, zool and bot labs, temp library, and lecture theatre, 24 staff houses.

LIBRARY 35,000 vols and 150 current periodicals

, member of South African, British and American library assocns, and inter-library loan service of South Africa

ADMISSION Minimum entrance requirement is 2nd class matric cert from Jt Matric Bd of South African Univs in Pretoria, or the equivalent

FIRST DEGREES (of Univ of South Africa) Under the agreement of assocn. with the Univ of South Africa, courses are provided for the following degrees of the Univ of South Africa: BA, BA(SS), BSc (3 yrs each)

DIPLOMAS 1 yr—univ educn dipl of Univ of South Africa, 2 yrs.—jr sec. teachers dipl for High Commission territories

RESEARCH Exceptionally rich opportunities exist for res in pure and appl scis and in soc. scis incl educn

FEES Residence and board, £100 per yr of 2 terms, tuition & exam fees average £3.10s per course per yr, registration fee, £4.5. Students Representative Council, £1 per yr, lab fee £2, per course.

ACADEMIC YEAR. Early Feb to mid-Nov. 2 terms

RESIDENCE The coll is entirely residential. Halls of residence have been built on the coll site and provide each student with a separate furnished study-bedroom.

PUBLICATION *Prospectus* (free on applicn to registrar)

THE YEAR 1960

PRINCIPAL BENEFACTIONS Propagation of the Faith, £85,000.

MAJOR BUILDING DEVELOPMENTS *Blags completed.* residence hall for women; sewerage purification plant

Statistics

STUDENT NUMBERS, 1961
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	140	—
Women	29	—
Total	169	—

Distribution by Faculties *Arts*, 73, *educn.*, 13; *sci*, 63, *soc sci*, 3, *various*, 17 Total 169

Included in the figures above are —

Postgraduate students, nil

New admissions, 60

Students from other countries, 140 (Countries from which largest numbers came Republic of S A, 76, Central African Fed., 37, Swaziland, 21)

DEGREES AWARDED (in assocn with Univ of S A) (1960). *Arts* BA, 17 *Sci*, 9, BA(SS), 2

DIPLOMAS AWARDED (1960) Univ educn dipl., 7.

HIGH COMMISSION TERRITORIES

HONG KONG

University of Hong Kong (p. 404)

HONG KONG

UNIVERSITY OF HONG KONG*

Founded 1911

Postal Address : Hong Kong
 Telegraphic Address . University, Hong Kong
 Telephone Hong Kong 42321

PATRON—H M THE QUEEN
 CHANCELLOR—H E THE GOVERNOR OF HONG KONG
 VICE-CHANCELLOR—L T RIDE, CBE, JP, MA DM BCh Oxon, Hon. LLD Tor.
 PRO-VICE-CHANCELLOR—Professor F. E. STOCK, JP, MB BS Lond, FRCS, FACS
 TREASURER—M. W. TURNER, CBE, JP, MA Oxon., Hon. LLD
 REGISTRAR—B MELLOR, JP, MA DipEd Oxon
 BURSAR—A W. WILSON
 LIBRARIAN—H A RYDINGS, MBE, MA Oxon

TEACHING STAFF

[†=Part-Time]

Anatomy

Chang, K S F, MSc *St. John's (Shanghai)*
 PhD Corn Prof.
 Maneely, R. B, MSc *Liv* (Histol) Sr. Lectr.
 Lee, Marjorie M C, MD *W. China Union* Lectr.
 Lee, R H S., MBE, MB BS • †Lectr.
 Chan, Mrs. Shuk-tsz, MB *Natnl Chung*
Cheng Med. Coll. Asst. Lectr.
 Lau, Miss Hing-Ching, BSc *Sun Yat-sen* Demr.
 Low, W D., BSc Demr.
 Miao, W C., MB *Lingnan* Demr.
 Ng, C K, MB *Lingnan* Demr.
 Poon, K T, MB BS Demr.

Architecture

Gregory, W. G, BArch *Liv* Prof.
 Hollmann, H G Sr. Lectr.
 Nedberg, B. Sr. Lectr.
 Wong, C. H., MCD *Liv.*, BArch *Sun*
Yat-sen Lectr.
 Kwan, C W., BSc(CE) *Sun Yat-sen*,
MS(SE) Purdue Lectr.
 Prescott, J A., BArch MCD *Liv* Lectr.
 Mayne, Mrs. Patricia, BArch *Dub* Lectr.
 Wang, C Y., BA *Natnl Puh Tan* Demr.
 Lam, C W., BArch Demr.

Biochemistry

Walsh, E O'F, BSc PhD *Lond.*, FRIC Prof.
 Gray, Doris E., BA MSc PhD *W Ont* Sr Lectr.
 Chisholm, J, BSc PhD *Glas* Asst Lectr.
 Huang, Y Y., BSc MD *St John's*
(Shanghai) Demr.
 Lee Peng, Mrs C. H, BSc *Natnl Chekiang*,
MS Kent State & Col Demr.

Botany

Stenton, H, BA PhD *Gamb.* Prof.
 Chiu, Miss Bek-to, BSc *Lond* Lectr.
 Chen, Miss Spring, BSc PhD *Lond.* Lectr.
 Turner, P D., MSc *Camb.* Lectr.
 Chang, Miss Yung, BSc Demr.
 Lam, Miss Elvera, BSc Demr.
 Yue, S B, BSc (on leave) Demr.
 Yue, Mona L K, BSc Demr.

Chemistry

Miller, J, BSc PhD *Lond* Prof.
 Arthur, H R, BSc *Melb*, MSc *W Aust.*,
 FRACI (Org C) Sr Lectr.
 Hill, D L, DIC, BSc PhD *Lond* Sr Lectr.
 Collins, Mrs. Dorothy A., MSc *Liv.* Lectr.
 Leary, R. H., BSc *W Aust.* Asst Lectr.
 Hui, Miss Wai-han, BA MSc Asst. Lectr.
 Lai, Miss Ting Fong, DPhil *Oxon.*, MSc
 Asst. Lectr.
 Cheung, K. K, BSc Demr.

Chinese

Drake, F S, OBE, BA BD DipEd Prof.
 DipGeog *Lond*
 Sargent, G. E, BSc *Chic*, DUPars
 (Oriental Studies) Reader
 • Lau, P M, LB *Hosei*, BA *Hosei & Nanking*
 Sr Lectr.
 Lo, H L, BA *Tsing Hua* Lectr.
 Jao, T. I Lectr.
 Yu, P. K, BA *Sun Yat-sen*, MA *Wash.* Lectr.
 Ma, M., BA *Yenching* Lectr.

* Member of the Association of Universities of the British Commonwealth

Mou, T. S., BA <i>Peking</i>	Lectr	Yick, Monica, MA <i>Leic</i> , BA	Asst Lectr.
Yang, V. T., BCom <i>Edin.</i>	Asst Lectr	Needham, J. D., BA <i>Oxon</i>	Asst. Lectr
		McLachlan, W. I., BA <i>Oxon</i>	Asst Lectr.
		Chang, Miss H. H. L., BA	Tutor
		Lam, Miss M. O., BA	Tutor

Economics and Political Science

Kirby, E. S., BSc(Econ) PhD <i>Lond</i>	Prof
Szczepanik, E. F., ComSc <i>Warsaw</i> , MSc(Econ) PhD <i>Lond</i>	Sr. Lectr.
Hsia, R., BA <i>Peking</i> , PhD <i>S Calif.</i>	Lectr.
Davies, G., BSc <i>Wales</i> , PhD <i>Lond</i>	Lectr
Matthews, J. W., BSc(Econ) <i>Lond</i>	Lectr
Lethbridge, H. J., BSc(Econ)	
BSc(Sociol) <i>Lond</i>	Lectr.
Hsueh, S. S., BA <i>Peking</i> , DScSocPol <i>Geneva</i>	Lectr
McKenzie, M. M., BA Sc Bt <i>Col</i> , MBA <i>Stan</i>	Asst Lectr

Geography and Geology

Davis, S. G., PhD MSc <i>Lond</i> , FGS	Reader
Llewellyn, J., MSc <i>Wales</i> , FGS, FRAI	Sr Lectr
Dwyer, D. J., BA PhD <i>Lond</i>	Lectr
Shepherd, A., MA <i>Oxon</i>	Lectr
Riley, G. C., MSc PhD <i>McG</i>	Lectr
Grant, C. J., MA PhD <i>Edin.</i>	Lectr
Talbot, H. D., BSc <i>Lond</i>	Lectr
So, C. L., MA	Asst Lectr
Chiu, T. N., BA	Demr
Lai, D. C. Y., BA	Demr

Education

Simpson, R. F., BSc MA <i>Lond</i>	Prof
Wright, Beryl R., BEd <i>Syd.</i>	Lectr
Li, Mrs Anita K., BA <i>Lake Forest</i> , DipEdPsychol <i>Burm.</i>	Lectr.
Young, Mrs. Wang Man Shung, BA Natnl. Central(Nanking)	Lectr.
Rose, J., BSc <i>Lond</i>	Lectr
Lee, Mrs Gennie G. H., BA <i>Beloit</i>	Asst. Lectr.

History

Harrison, B., MA <i>Dub.</i>	Prof.
Endacott, G. B., MA BLitt DipEd <i>Oxon</i> , BA <i>Lond</i>	Sr Lectr
Cranmer-Byng, J. L., MC, MA	
DipOrientalLangs <i>Camb.</i>	Lectr
Young, L. K., BA <i>Birm & Oxon.</i> , DPhil <i>Oxon</i>	Lectr.
Blackmore, M., MA <i>Camb</i>	Asst Lectr
Ng, P. Y. L., BA	Asst Lectr
le Feuvre, E., BA <i>Chic</i> , MA <i>N U.I.</i>	Asst Lectr.

Engineering

Mackey, S., BSc ME <i>N.U.I.</i> , PhD <i>Leeds</i> , FGS	Tai Koo Prof
King, S. Y., DIC, PhD <i>Lond</i> , BSc(Eng)	Reader
Lumb, P., DIC, MSc <i>Lond</i>	Lectr.
Chen, L. K., BSc <i>St John's</i> (Shanghai), BScE MS <i>Ill</i>	Lectr
Rafferty, J. J., ME <i>N.U.I.</i> , PhD <i>Leeds</i>	Lectr.
Loh, S. C., BSc PhD <i>Leeds</i>	Lectr.
Soundranayagam, S., BSc <i>Lond</i>	Lectr.
Fang, P. S. K., BSc <i>Chiao Tung & Manc.</i> , MEng <i>McG.</i>	Lectr
Shih, S. L., BSc <i>Chiao Tung</i> , MSc <i>Union</i>	Lectr
Leung, W. S., BSc(Eng) <i>Lond</i> , PhD <i>Leeds</i>	Lectr.
Leung, K. W., MSc(Eng)	Lectr
Wong, K. C., DIC, PhD <i>Lond</i> , BSc(Eng)	Lectr
Hui, C. Y., DIC, BSc(Eng)	Asst. Lectr.
Yu, P. K., BSc <i>Lingnan</i>	Asst Lectr
Lung, Y. S., BA <i>Sun Yat-sen</i>	Asst Lectr
Chan, K. H., BSc <i>Natnl Taiwan</i>	Demr
Chang, T. H., BSc(Eng)	Demr.
Workshop Instr	

Mathematics

Wong, Y. C., BSc <i>Sun Yat-sen</i> , PhD DSc <i>Lond</i>	Prof
Leung, K. T., DPhil <i>Zur</i>	Sr. Lectr
Maunder, W. F., BSc(Econ) PhD <i>Lond</i> (Stats)	Sr Lectr
Leung, K. V., IngDoc <i>Paris</i>	Lectr
Tsou, S. T., BSc <i>Sun Yat-sen</i> , PhD <i>Liv.</i>	Lectr.
Chen, Mrs Doris, BSc <i>Sun Yat-sen</i> , MSc PhD <i>Lond</i>	Lectr.
Hui, C. S., DIC, SM <i>Harv.</i> , BSc(Eng) (Stats)	Asst Lectr
Chan, H. M., PhD <i>Bnm</i> , BSc	Asst Lectr
Chen, Y. M., BSc <i>Chiao-Tung</i>	Asst Lectr
Young, S. H., BSc <i>Fukien Christ.U.</i>	Tutor
Hsu, C. S., BSc <i>Natnl Taiwan</i>	Tutor

Medicine

McFadzean, A. J. S., MD <i>Glas.</i> , FRCP	Prof.
Wong, C. C., MB BS <i>Lond.</i> , MRCPed	
Todd, D., MD, MRCPed	Sr. Lectr.
Pan, Y. C., MB BS, MRCPed	Lectr.
Kwaan, H. C., MD, MRCPed	Lectr.
Gabriel, Sr M., MB <i>N U.I.</i> , MRCPed (Tuberculosis)	†Lectr
Choa, G., DTM&H <i>Lw</i> , MD, MRCP (Clin M)	†Lectr
Ho, H. C., MB BS, MRCP (Radiol)	†Lectr
Hu, S. C., MB BS, MRCPed, FFR (Ped)	†Lectr.
Minett, F. R. D., MB <i>Edin</i> , MRCPed (Dermatol.)	†Lectr

English

Blunden, E. C., CBE, MC, MA <i>Oxon.</i> , FRSL	Prof
Green, A. W. T., MA <i>Oxon</i> (Linguistics)	Sr Lectr.
Visick, Mrs Mary, MA BLitt <i>Oxon.</i>	Lectr
Hardie, A. M., MA <i>Oxon</i>	Lectr
Rooke, Barbara E., MA <i>Qu</i> , PhD <i>Lond</i> .	Lectr.
Yu, Margaret, PhD <i>Marquette</i> , DiplEnglStud <i>Edin.</i> , BA	Lectr.
Blunden, Mrs. Claire M., MA DipEd <i>Oxon</i> .	Lectr.

Yap, F M, MA MD *Camb*, DPM *Lond*
(Mental Dis) †Lectr
Yeoh, G E, MB BS (Infectious Dis) †Lectr
Young, Rosie T. T., MD, MRCPEd Asst Lectr.
Chau, Y. K., MB BS Asst Lectr.
Lai, K S, MB BS (on leave) Asst Lectr.

Modern Languages

Thompson, R W, MA *Dub* Sr Lectr
Castel, A. P. A., Lèsl Dipl'd ÉtSup
DESdeDroitPub&Prive *Paris* Lectr
Batalha, Mrs G., LemFrlClassica *Combra* †Lectr
Hillen, St E H Lectr
Boak, C. D., MA PhD *Camb* Lectr

Obstetrics and Gynaecology

Chun, Daphne W C, OBE, MB BS, FRCSEd, FRCOG Prof
Chew, W, MB BS Lectr
Braga, Carolina A., MB BS Lectr.
Chan, D P C., MB BS, FRCSEd, FRFPGlas Lectr.
Kan, P S, MB BS Lectr
Chow, K. K., MB BS †Hon. Lectr.
Chow, C, MB BS †Lectr
Kwan, Dorothy, MB BS †Lectr.
Tsao, Y K, MB BS †Lectr.
Tso, Edith H Y, BS *Yenching*, MD *Peking Union Med* †Lectr.
Lu, Therese, MB BS Asst Lectr

Oriental Studies, see below

Pathology

Kirk, R., OBE, BSc MD *Glas.*, FRCP, FRFPGlas Prof.
Teoh, T. B., PhD *Leeds*, MB BS Sr. Lectr
Huang, C. T., MB *Lingnan*, PhD *Leeds* Sr Lectr
Ma, L, BSc *W.China Union*, PhD *Leeds* Lectr.
Fang, Lilhan, BS MD *Shanghai*, PhD *Leeds* Lectr
Wong, Mrs F C, MB *Lingnan*, PhD *Lond* Lectr.
Fang, T C, MD †Lectr
Mallett, Barbara, BSc *Oxon* Asst. Lectr
Chan, Miss C H., MB *Lingnan* Asst. Lectr
Wong, Miss Ming Ming, BSc *Wilmington*, MSc *Ohio* Demr
Tso, T O T, MB BS Demr
Chun Tie, Grace, BSc *Q'ld* Demr.
Chak, S P., MB *S.ChinaMed.Coll.* Demr

Philosophy

Agassi, J., MSc *Jerusalem*, PhD *Lond* Reader
Cronin, Rev Fr F, BA *N.U.I.* Lectr.
Kvan, Rev E, CandTheol *Copenhagen* Lectr.

Physics

Chesterman, W D, DSc *Brist*, FIP Prof.
Hui, P M., PhD *Lond*, BA Lectr
McLean, I. W., BSc *Adel.* Lectr.

Blundell, Mary, BSc *Mane* Lectr.
Wang, C P, MSc PhD *Malaya* Lectr
Chiang, K. E., BSc *Nat Norm U*, *Peiping* Demr
Lee, A H, BA *Inter.Christ.Univ Tokyo* Demr.
Lung, C Y, BSc(Eng) *Lond* Demr.
Leung, C L, BSc Demr
Watt, J C Y, BA *Oxon* Demr

Physiology

Cheng, K K., PhD *Lond*, MB BS (Physiol.) Prof.
Hsieh, C. L., BSc MD *St.John's (Shanghai)* Sr. Lectr.
Gruhzat, C C, BS MD *Mitch*, PhD *Syr.* (Pharmacol.) Lectr.
Bard, S. M., MB BS †Hon. Lectr.
Liang, C C., BSc *Tsing Hua*, PhD *Lond* Asst Lectr.
Ch'iu, C. C., MB *Sun Yat-sen* Asst Lectr.
Cheung, H S T., BA *Lond*, MSc Demr
Lu, K M., BSc *Nanking* Demr

Political Science, see Econ and Pol Sci

Preventive and Social Medicine

Teng, P H, DPH *Lond*, MB BS †Prof
She, Louise, BA *Yenching*, MA *Mitch* Lectr.
Pun, Miss Su-Fun, MA *Col*, BA Asst. Lectr.
31 Lectrs † & Demrs †

Surgery

Stock, F. E., JP, MB BS *Lond*, FRCS, FACS Prof
Hodgson, A R, MB ChB *Edm*, FRCSed, FACS (Orthop S) Sr Lectr
Hui, K K L, MB BS, FACS Sr Lectr
Fung, J H Y, MB BS, FRCS, FRCSed, FACS Lectr
Brodetti, A, MD *Naples* (Orthop S) Lectr
Yeung, M H, MB BS, FFARCS Lectr
Li, F., MB BS, FRCS, FRCSed Lectr
10 Lectrs |

Zoology

Barker, D, MA DPhil *Oxon* Prof
Thornton, I W. B, BSc PhD *Leeds* Sr Lectr
Strahan, R, MSc *W Aust* Lectr
Hill, D. S, BSc *Hull* Lectr
Marshall, A T, BSc *Leeds* Asst. Lectr
Chun, N K, MSc Asst Lectr
Adal, M N, BSc Demr.
Ip, M C, BSc Demr

INSTITUTE OF ORIENTAL STUDIES

Drake, F S, OBE, BA BD DipEd Dir
DipGeog *Lond* Dir
Ng, Mrs. E., BA Admin Asst
Ma, M, BA *Yenching* Principal of Lang Sch
Chow, Mrs Josephine, BA *Ginting* Tutor
Chou, H, BA *Yenching* Tutor

Lau, S., BA *Sun Yat-sen*
 Liu, S. C., BA *Wis.*, MA *Calif*
 Lou, E. H., BSc *Peking*, MA *Col*
 So, M. Y., LLR *Chung Shan*
 Chang, Mrs. A., BA *Nanking*
 Shih, W. C., BA *Peking Normal*
 Wu, Mrs. Y. L., BA *Yenching*

Tutor 7 Temp Tutors

Tutor
 Tutor
 Tutor
 Tutor
 Tutor
 Tutor

EXTRA-MURAL STUDIES

Hughes, I. W., LLB *Wales* Du
 Lai, T. C., MA Asst to Dir

ADMINISTRATIVE AND OTHER STAFF

Dep Registrar R. N. Jackson, MA *Camb*
 Dep Bursar N. Gillanders Asst Registrar
 P. W. M. Cheung, OBE, BSc *Oxon*, BA Admin
 Assts Mrs. Ellie Alleyne, BLitt *Oxon*, BA,
 N. H. Young, CertEd *Lond*, BA, H. C. Lam,
 BA; B. Choa, BA Dep Librarian G. W.
 Bonsall, MA *Camb* Asst Librarians Mrs. D.
 Hu, BA, P. Tong, MA *MLS Calif*, BA
 Accountant W. S. Chien Maintenance Engineer
 M. Antonoff Planning Engineer E. Wong
 Tape, BSc(Eng) Controller of Gdns C. W.
 Pan, BSc(Hort) *Nanking* Univ Health Officer
 S. M. Bard, MB BS Asst Univ Health Officer
 Irene Osmund, MB BS Dir of Physical Educn
 J. H. Duthie, MC, Asst to Dir of Physical

Educn W. K. Low, CertEd *Nott* Publisher to
 Univ. Press H. Vetch.

WARDENS OF HALLS OF RESIDENCE (Men)
 G. B. Endacott, MA BLitt DipEd *Oxon*, BA
Lond (May Hall), R. H. Leary, BSc *W Aust*,
 (Lugard Hall), J. Llewellyn, MSc *Wales*, FGS,
 FRAI (University Hall), D. L. Rogers, BA *Leeds*
 (Moulson Hall); R. Harris (Ricci Hall), Rev
 E. Kvan, CandTheol *Copenhagen* (St. John's
 College), S. G. Davis, PhD MSc *Lond*, FGS
 (Hornell Hall, non-residential) (Women) Mrs
 Mary Visuek, MA BLitt *Oxon* (Lady Ho Tung
 Hall), Mrs. D. A. Collins, MSc *Liv* (Duchess of
 Kent Hall, non-residential)

GENERAL INFORMATION

In 1887 Sir Patrick Manson, GCMG, started the Hong Kong Coll. of Medicine for the Chinese in the Alice Memorial Hosp. opened the same yr. on a London Missionary Soc. foundation. As students of nationalities other than Chinese began to join the coll., the words 'for the Chinese' were struck out of the title in 1907, and the institution was incorporated as 'The Hong Kong College of Medicine'.

The coll. offered to amalgamate in a univ., and in March 1911 the Univ. of Hong Kong was incorporated by a local ordinance, embodying the principle of religious tolerance and racial neutrality. H.M. govt. guaranteed funds for the foundation of 'King Edward VII' scholarships, awarded on entrance exam. results. The univ. was opened in March 1912, in a bldg. donated by Sir H. M. J. Mody, with facs. of med. and engn. A fac. of arts was organized in the following yr., a fac. of sci. in 1939 and a fac. of night in 1951. The last was combined with the fac. of engn. in 1958.

A plan has been adopted for the univ.'s expansion which will result in the increase of undergrads to about 1800 by 1965. Degree courses in electr. and mech. engn. have been reinstated, and plans are in preparation for degree courses in dent.

CONSTITUTION The supreme governing body of the univ. is the court, with the governor of Hong Kong as chancellor and chairman. The executive body is the council, composed of the vice-chancellor, the treasurer, the colonial sec., the deans of the facs., 4 members apptd. by the chancellor, 3 elected by the court and 1 elected by the senate. The senate, which deals with

academic matters, is composed of the vice-chancellor, the dir. of educn, the profs and the hds. of teaching depts. who are not profs.

INCOME (1959-60) (HK \$16=£1) Interest on investments, \$3,127,910, fees, \$2,028,136, govt. subventions, \$5,800,000, other sources, \$226,589, total, \$11,182,635.

FACULTIES AND DEANS Asst. Prof. B. Harrison (hist.), engn. & archit., Prof. S. Mackey (engn.), med., Prof. F. E. Stock (suig.), sci., Dr. I. W. B. Thornton (zool.)

LIBRARIES Univ. libr. over 114,000 vols. in Engl. and other European langs.; receives over 1200 journals. Fung Ping Shan Chinese section over 118,908 Chinese vols. (incl. 2300 Japanese vols.) and receives 108 current Chinese journals. Sp. collections incl. Hankow collection of invaluable source material on relations between China and the west during the Ch'ing dynasty, and Morrison collection of 2748 vols. incl. some of antiquarian value in the fields of oriental and biblical lit.

TEACHING HOSPITALS. Queen Mary H., Tsan Yuk H.

INSTITUTE OF ORIENTAL STUDIES (see p. 406) The Inst. of Oriental Studies provides facilities for study of the Mandarin and Cantonese langs. to colonial administration service officers and lang. officers of the army and air force, and for res. in various fields of Far Eastern study.

ADMISSION Minimum qualifs. attainment of age 17, medical exam. of fitness, success in the

Univ of Hong Kong matric exam (passes in Engl, a second lang, a sci or maths. subj, 2 subjs at the advanced level and at least 3 subjs at one exam) In addn there are various fac. requirements

EXTERNAL STUDENTS Applicants whose educn standards in Engl lang. and in the subjects of their choice are considered adequate by the hd of dept concerned may be admitted as external students but may not take exams. of the univ There are about 18 external students, mostly attending courses in the arts subjects, and 31 lang. sch. students

FIRST DEGREES 3 yrs—BA (pass, hons), BSc general, BSc(Eng), 4 yrs—BSc special, 5 yrs—BArch (pass, hons), 6 yrs.—MB BS The min residence in the univ for graduation is 3 yrs, except where individual exemption is given Students reading for BA may elect courses from one, two, or three of the following: Chinese, econ & pol sci, Engl, geog & geol, hist., maths, mod. langs, philos Courses for BA pass and hons. are identical (hons awarded on result of final exam)

Students in sci courses are required to graduate with a BSc general degree before they may be permitted to read during a further yr for a BSc special degree in chem, phys, bot, zool, pure maths., or appl maths

HIGHER DEGREES. MA, MSc, MSc(Eng)—conferred on grads of the univ or of approved univs after advanced work extending over at least 2 yrs. MD, MS—conferred on grads. of the univ. of 5 yrs' standing, or in special cases of 3 yrs' standing MArch—conferred on hons grads. of the univ or of approved univs. after 1 or 2 yrs. advanced work. DSc—conferred on grads of the univ. of at least 5 yrs' standing on evidence of publication of authoritative contributions to learning. Ph.D.—conferred on grads. of the univ or of approved univs for original contribution to knowledge deriving of publicn, after 2 yrs' full-time study

DIPLOMAS. Educn—1 yr, soc study—1 yr. (candidates must be grads of the univ or approved univs), Chinese lang—1 yr (candidates must have cert in Chinese lang. or equiv.)

CERTIFICATES. Soc study—2 yrs., candidates must be matriculated students of the univ Educn—1 yr. full-time, or 2 yrs pt-time, candidates must be grads. of approved univs., and must be grade of at least 3 yrs' standing for the pt-time course Chinese lang.—2 yrs.; candidates must be matriculated students of the univ or equiv.

STUDY LEAVE may be granted where it can be arranged without serious inconvenience to the work of the univ.; terms of leave are at discretion of the council.

FEES (HK \$16=£1) Matric, min entry fee \$50; caution, \$100, composition (incl. registration, tuition, lab or workshop, exam., and student

health) BA (hons or pass) (3 yrs), \$3160; BSc general (3 yrs.), \$3760; BSc special (4 yrs.), \$5010, MB BS (5 yrs.), \$6260, BSc(Eng) (4 yrs), \$4610, BArch (5 yrs), \$5710, higher degree exams. MA, MSc, MSc(Eng), MArch, \$400, DSc, MD, MS, \$600 Graduation BA, BSc, MB BS, BSc(Eng), BArch, \$100, MA, MSc, DSc, MD, MS, MSc(Eng), MArch, \$200

ACADEMIC YEAR Sept to June: 3 terms of 10, 9 and 9 wks 1961-62 Sept 1-Dec 20, Jan 1-March 19, March 26-June 30

EXTRA-MURAL COURSES. Courses in accty and secretarial practice; lang courses, various other occas. and refresher courses.

POSTGRADUATE AWARDS Two 2-yr. scholps. awarded by H.K. govt each yr for postgrad. study or res. open to applicants from other parts of the Commonwealth (Commonwealth Scholarship & Fellowship Plan)

GRADUATES' ASSOCIATIONS Hong Kong Univ. alumni assocn of Hong Kong, pan-Malayan Hong Kong Univ alumni assocn (branch assocns of S Malaya, Central Malaya, Perak and North Malaya); Hong Kong Univ. alumni assocn in the U K

HALLS OF RESIDENCE For men in univ. estate—May Hall (accomm for 90), University Hall (52), Lugard Hall (75)—fees, \$180 p m, Morrison Hall, Hatton Rd (54), conducted by London Missionary Soc—fees, \$200 p m, Roca Hall, Pokfulam Rd (62), conducted by Jesuit Fathers—fees, \$200 p m For men and women St John's Coll., Pokfulam Rd (116), Anglican coll. of residence—fees, \$211 p m For women Lady Ho Tung Hall, Pokfulam Rd (100)—fees, \$220 p m (For wadens, see 'Admin and Other Staff', above)

STAFF RESIDENCES. The univ. controls 42 houses and flats for teaching staff situated within the univ estate, and 31 outside it.

STUDENT HEALTH SERVICE. Provides for initial exam on admission, required vaccinations and inoculations, and professional services up to specialist level

STUDENTS' UNION. The union was establd in 1912 Membership is obligatory. It is controlled and directed by a council, the pres and hon sec of which, and also 4 indep members, are elected by the undergrads The union possesses a Jordan memorial library.

STUDENT ATHLETICS. Cricket, football, hockey, swimming, tennis, basket-ball, badminton, etc.

PUBLICATIONS *Calendar*, *Handbook of the Matric Exam*, *Matric Exam Question Papers*, *Departmental Reports*, *Journal of Oriental Studies*, *Univ Gazette*, *Contemporary China*; *Union Magazine* (students)

The UNIVERSITY PRESS is managed by a cttee. apptd. by council Publisher, H. Vetch

THE YEAR 1960

NEW DEPARTMENTS AND CHAIRS Dept. and chair of biochem, chair of bot

RETIREMENTS Prof L G Kilborn (physiol), Prof J E Driver (chem), Prof Hou Pao-chang (pathol)

RESIGNATIONS Mrs Dorothea Scott (librarian), R Oblitas (registry), apptd city hall manager, Dr C. T. Yung (bot), apptd pres of Chung Chi Coll; Dr J B Sousa (chem), Mrs. Audrey F. M. Driver (physiol), D Lao (archit), Mrs Grace Wen (asst librarian); Miss Tung King Ng (asst librarian)

DEATHS Y B Chan (anat), H Wohlfahrt (mod langs); Dr G. M. Thomson (med)

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	941	95
Women	326	45
Total	1267	140

Distribution by Faculties. *Arts*, 693, *engin & archit*, 166; *Inst of Oriental Studies*, 31, *med*, 311, *sci.*, 184; *soc studies*, 22. Total 1407

Included in the figures above are —

Postgraduate students, 170

New admissions, 512

Students from other countries, 82 (Country from which largest number came. Fed of Malaya, 61)

DEGREES AWARDED (1959-60) *Arts* BA, 129, MA, 5, MA(Ed), 1 *Engin & archit* BSc (Eng), 19, MSc(Eng), 4, BArch, 3 *Med* MB BS, 49, MD, 1 *Soc* BSc (gen), 30, BSc (sp), 17, MSc, 3

DIPLOMAS AWARDED (1959-60) DipEd, 53, DipSS, 7

CERTIFICATES AWARDED (1959-60) CertEd, 14, CertSS, 7

INDIA

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|----|--|----|---|
| 1 | Agra University (p. 428) | 19 | University of Kerala (p. 539) |
| 2 | Aligarh Muslim University (p. 437) | 20 | University of Lucknow (p. 545) |
| 3 | University of Allahabad (p. 444) | 21 | University of Madras (p. 556) |
| 4 | Andhra University (p. 448) | 22 | Marathwada University (p. 566) |
| 5 | Annamalai University (p. 455) | 23 | University of Mysore (p. 569) |
| 6 | Banaras Hindu University (p. 460) | 24 | Nagpur University (p. 575) |
| 7 | Maharaja Sayajirao University of Baroda (p. 464) | 25 | Osmania University (p. 589) |
| 8 | Bihar University (p. 472) | 26 | Panjab University (p. 599) |
| 9 | University of Bombay (p. 475) | 27 | Patna University (p. 607) |
| 10 | University of Calcutta (p. 483) | 28 | University of Poona (p. 611) |
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| 12 | University of Gauhati (p. 507) | 30 | University of Roorkee (p. 621) |
| 13 | Gorakhpur University (p. 511) | 31 | Saidar Vallabhbhai Vidyapeeth (p. 625) |
| 14 | Gujarat University (p. 516) | 32 | University of Sagar (p. 628) |
| 15 | University of Jabalpur (p. 522) | 33 | Shreemati Nathibai Damodar Thackersey Women's University (p. 633) |
| 16 | Jadavpur University (p. 525) | 34 | Sri Venkateswara University (p. 635) |
| 17 | University of Jammu and Kashmir (p. 531) | 35 | Utkal University (p. 640) |
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| | | 37 | Visva-Bharati (p. 650) |



The places named in black type are seats of university institutions as numbered overleaf

THE UNIVERSITIES OF INDIA

[Contributed by Mr S. R. Dongerkery, Vice-Chancellor of Marathwada University]

HISTORY. Modern university education in India dates from the foundation of the universities of Calcutta, Bombay and Madras in 1857. Educational institutions comparable to the universities of to-day did not exist in pre-Aryan India. Glimmerings of the idea of a university can be seen in the colleges and schools for advanced study attached to temples, where the Aryans provided education in religious and secular subjects for their youth. The *gurukula* where the *guru* or teacher imparted the knowledge of the Vedas to the *shishyas* or pupils entrusted to his care was more a residential college than a university, inasmuch as, beyond providing intimate contacts between the teacher and his pupils, it did not afford opportunities for the association of teachers. Such opportunities were, however, provided by *parshads* or conferences of teachers and scholars organized from time to time. By granting recognition to scholars who exhibited their learning before them, these *parshads* performed one of the functions of a modern university.

Takshashila or Taxila, in Kandahar, the most important of the earliest known seats of learning in ancient India, became a university centre in the seventh century B.C. It flourished for nearly ten centuries as a university to which scholars and students were attracted from all parts of India. Similar university centres sprang up at Ujjain, Valabhi, Vikramasila, Banaras and Kanchi (Kanchipuram). At one time, the University of Nalanda in the north (Bihar) and that of Kanchi in the south attained celebrity as centres of Indian culture and scholarship.

With the spread of Buddhism, the *viharas*, or monasteries, developed into centres of learning which attracted lay students by the fame of their teachers. These *viharas*, which, unlike the old *gurukulas*, had many teachers in residence, approximated to the modern idea of a university. About A.D. 425, Kumaragupta I, a devout Hindu, founded the *sangharanika* (college) of Nalanda as a residential university. Before him, the Emperor Asoka had built a temple and a *vihara* at the same place. Kumaragupta's successors built more *sangharanikas*. The University of Nalanda possessed eight *sangharanikas*, three extensive libraries and an observatory. It flourished till the thirteenth century A.D., when it was destroyed by invaders. Theology and philosophy were compulsory subjects of study at the university. Great importance was also attached to the teaching of the various systems of logic. The curricula included astronomy, grammar and medicine. The reputation of the great scholars who taught at Nalanda spread not only throughout the length and breadth of India, but even beyond its borders,

and attracted students from China, Tibet and Ceylon. Nalanda had, at one time, as many as ten thousand students and teachers. The method of instruction consisted of individual tuition and guidance rather than formal lectures. The students derived great benefit by listening to the discussions which took place among their teachers. Close personal contacts were established between the teachers and the taught.

Some of these ancient seats of learning continued to thrive even after the Muslim conquest of India, although the Muslim rulers encouraged the setting up of *madrasahs*, or colleges, in different parts of India, e.g. at Lahore, Delhi, Rampur, Lucknow, Allahabad and Jaunpur. The subjects of study in the *madrasahs* included theology, grammar, logic, rhetoric, law, geometry, astronomy and metaphysics. While Sanskrit was the medium of instruction in the Hindu centres of learning, Arabic was the chief medium in the *madrasahs*.

When the East India Company came on the scene, it was in no hurry to change the indigenous systems of education. On the contrary, it established the Calcutta Madrasah and the Banaras Sanskrit College on the traditional pattern, with the avowed purpose of preserving and cultivating the laws, literature and religion of the people and training young Indians for the administrative and judicial services. The renewed charter of the East India Company, in 1813, contained a clause stipulating that 'a sum of not less than one lakh of rupees in each year shall be set apart and applied to the revival and improvement of literature, and for the introduction and promotion of knowledge of the sciences among the inhabitants of the British territories in India'. Under the leadership of Raja Rammohun Roy, the Hindu College was founded in Calcutta, in 1817, to provide instruction in the European languages and science. In Bombay, Mountstuart Elphinstone advocated the establishment of schools for teaching English and the European sciences. The Elphinstone Institution was founded in Bombay, in 1834, to train persons for high employment in the civil administration. European missionaries, too, were active during this period, establishing schools in the presidency towns for imparting western education through the English language. A controversy arose between those who wanted to impart instruction through Sanskrit and Arabic and those who wanted to do so through English, which provided the occasion for Macaulay's famous minute. Endorsing this minute, the governor-general in council passed a resolution on March 7, 1835, declaring that the great object of the British government ought to be to promote

European literature and science among the Indian people and to employ all funds allocated to education on English education alone. The controversy, in Bombay, over the medium of instruction was settled in favour of English, in 1843. In 1845 the Bengal Council of Education proposed to the court of directors of the East India Company the establishment of a university at Calcutta, but the proposal was turned down as premature.

The next landmark is the dispatch of 1854 of Sir Charles Wood, sometimes called the 'Magna Carta of English education in India', but which may more accurately be described as the *fons et origo* of the modern universities of India. This historic document impressed upon the government of India the duty of creating a properly articulated system of education from the primary school to the university, and recommended, *inter alia*, the institution of universities in the presidency towns of Calcutta, Bombay and Madras. It stated that the object of establishing universities was to encourage 'a regular and liberal course of education by conferring academical degrees as evidences of attainment in the different branches of arts and science'. It held out the University of London as a model which might be followed with advantage in India. The dispatch further advised the institution of professorships at the universities in various branches of learning. The educational policy outlined in it was implemented by the establishment of the universities of Calcutta, Bombay and Madras in 1857.

The jurisdiction of the University of Calcutta, extending from the Punjab in the west to Burma in the east, covered practically the whole of north India, while that of the other two universities was restricted to the respective presidencies. For twenty-five years these three universities catered for the educational needs of the whole country. The universities continued to be purely examining and affiliating bodies. To meet the increasing needs of the student population as well as to relieve Calcutta University of its heavy burden, two new universities were created—the University of the Punjab (now in Pakistan), in 1882, and the University of Allahabad, in 1887. Both these universities followed the example of the three earlier ones by confining their activities to examination and affiliation. No addition was made to these universities till 1916, although, meanwhile, higher education was rapidly expanding.

The next landmark in university education is the appointment, during Lord Curzon's viceroyalty, of the Universities Commission of 1902. The important recommendations of this commission were (i) that the senates of the universities should be limited in size, (ii) that teaching powers should be conferred on the universities, (iii) that they should be given greater control over the affiliated colleges and (iv) that they should undertake research. These reforms, incorporated in the Indian Universities Act of 1904, enabled the five existing universities to improve their efficiency by assuming teaching functions, exercising an

effective check over their affiliated colleges and encouraging research.

The next stage in the progress of university education is indicated by the government of India's resolution, published in 1913, which urged that the area of jurisdiction of the existing affiliating universities be reduced so as to provide a separate university for each of the leading provinces, and that simultaneously new local teaching and residential universities be created in each province in harmony with the best modern educational opinion. Government announced their intention to establish teaching and residential universities at Dacca, Aligarh and Banaras, and additional universities at Patna and Nagpur, and expressed their desire that the existing universities should provide and develop teaching facilities and encourage a corporate life which would advance higher study and create an atmosphere conducive to social and moral as well as intellectual progress.

Banaras Hindu University was founded in 1915. It was intended to be a live centre of Hindu culture and to promote the study of the applied sciences, and was the first denominational university to be established in India. Patna University was founded, in 1917, as an affiliating university to cater for the educational needs of the new province of Bihar and Orissa. Aligarh Muslim University, which developed from the Mahomedan Anglo-Oriental College, founded in 1875, was established in 1920 to serve the special cultural and educational needs of the Muslim community. In 1916, the University of Mysore, the first university in an Indian state, was created by the Mysore legislature.

In 1917 the government of India appointed the Calcutta University Commission under the chairmanship of Sir Michael Sadler, which was to have a profound influence on the subsequent progress of secondary and university education in India. The terms of reference of this commission included problems of secondary education as well as those covering all aspects of collegiate and university education. The recommendations of the commission have affected subsequent university legislation in different parts of India. One was the creation of intermediate colleges and boards of secondary and intermediate education. Another was the creation of teaching and residential universities. The universities of Aligarh, Lucknow, Dacca (now in Pakistan) and Delhi, established between 1920 and 1922, followed the model suggested by it. The commission recommended less government control, a greater participation by teachers in the government of the universities, a closer co-operation between the universities and the colleges and the appointment of full-time vice-chancellors. Most of these reforms have been adopted by the older universities and incorporated in the constitutions of the more recent ones. Omania University was founded at Hyderabad (Deccan), in 1918, before the Calcutta University Commission's report was published. An outstanding feature of this university was the adoption of Urdu, the language

of the state, as the medium of instruction. Since the merger of the state in the Indian union, English has been adopted as the medium of instruction in the colleges of the university, while in a few of them parallel classes are conducted in Hindustani.*

The decade following the publication of the Sadler Commission's report witnessed a spate of university activity throughout the country. Aligarh Muslim University (1920) and the universities of Lucknow (1921), Dacca (1921), Delhi (1922), Nagpur (1923), Andhra (1926), Agra (1927) and Annamalai (1929) followed one another, in rapid succession. Many of these were unitary, teaching and residential universities. The years between 1929 and 1937 were lean years for university activity. The founding in 1937 of the University of Travancore (now the University of Kerala), the third in an Indian state, gave a signal for the revival of the university movement which, after a slight set-back during the second world war, gained renewed vigour, resulting in the establishment of Utkal University (1943), Saurashtra University (1946), Rajasthan University (1947). Since the attainment of independence by India, nineteen more universities have come into existence, namely, Panjab University (1947), Gauhati University (1948), the University of Poona (1948), Jammu and Kashmir (1948), Maharaja Sayajirao University of Baroda (1949), Roorkee University (1949), Gujarat University (1949), Karnataka University (1950), Shreemati Nathibai Damodar Thackersey Women's University (1951), Visva-Bharati (1951), Bihar University (1952), Sri Venkateswara University (1954), Jadavpur University (1955), Sardar Vallabhbhai Vidyapeeth (1955), Gorakhpur University (1956), Vikram University (1957), Jabalpur University (1957), Kurukshetra University (1957), Maithwada University (1958) and the University of Burdwan in West Bengal (1960).

The Shreemati Nathibai Damodar Thackersey Women's University and Visva-Bharati, though established by private agencies in 1916 and 1921 respectively, became statutory universities under acts passed in 1949 by the Bombay government and in 1951 the central government respectively. Sardar Vallabhbhai Vidyapeeth, which was an offshoot of Gujarat University, was founded in 1955 and is a teaching and affiliating university.

In addition to the above-mentioned universities the Indian Institute of Science, Bangalore, and the Indian Agricultural Research Institute, New Delhi, are deemed to be universities under section 3 of the University Grants Commission Act (1956).

In seventeen universities (Andhra, Bombay, Calcutta, Delhi, Gauhati, Jadavpur, Jammu and Kashmir, Karnataka, Kerala, Madras, Marathwada, Osmania, Panjab, Rajasthan, Roorkee, Sri Venkateswara and Utkal) English is the sole medium of instruction. In the others it is English and Hindi or English and the mother-tongue, alternatively, except in the Shreemati Nathibai Damodar Thackersey Women's University where it is the student's mother-tongue, and

the Sardar Vallabhbhai Vidyapeeth where it is Hindi.

Four important reports dealing with university education were published after that of the Calcutta University Commission, viz. (1) the Hartog Committee's report (1929), (2) the report of the Panjab University Commission (1933), (3) the report of the Central Advisory Board of Education on post-war educational development in India (1944) (known as the Sargent report) and the report of the University Education Commission (1949), presided over by Dr Radhakrishnan.

The Hartog report was in the nature of a review of the growth of education in British India. It contains some observations on the importance of a corporate life in universities. The authors also observe that the requirements of India cannot be met solely by unitary universities, and that the affiliating university is likely to remain for many years. The Panjab University Enquiry Committee's report did not produce any appreciable change in the constitution of that university on account of the unwillingness of the senate to implement its recommendations, valuable though they were. The Sargent report drew attention to crying defects in the Indian university system, such as the undue importance attached to examinations, the emphasis on book-learning as contrasted with original thinking, the lack of personal contacts between teachers and students, the dependence of universities on examination fees, the absence of schemes for assisting poor but able students and the need for additional universities. Among its important recommendations were the following: (1) that the duration of the degree course should be reduced from four to three years by adding one year of the intermediate course to the schools without lowering standards, (2) that one-third of the students at universities should receive assistance from government by way of scholarships and maintenance grants, and (3) that a University Grants Committee on the lines of the U.G.C. of Great Britain should be constituted.

The report of the University Education Commission (1949) is the most recent authoritative and comprehensive document on the subject of university education in India. The second world war and the achievement of India's independence, accompanied by the partition of the country, hastened the need for a complete and comprehensive enquiry into all aspects of university education, as it was realized that the remoulding of the country's educational policy to suit her future requirements was one of the first essential steps in her national progress. The report gives to the teacher the place which, though due, has been denied to him hitherto in the educational structure, a place above books and curricula, buildings and equipment, administration and the rest. It recommended suitable scales of salary for university teachers in keeping with their importance and status so that the best men and women would be attracted to the profession, the raising of the age of superannuation from 55 to 60,

with extensions up to 64 in special cases, so that ripe scholarship and experience should not be lost to the country, and more congenial conditions of work. Deplored the colossal wastage resulting from the failure of students at university examinations, the commission recommended the raising of the level of education in secondary schools, the provision of occupational institutes to divert students, unfit for university education, to suitable vocations, the raising of the standard of admission to universities, the increase in the duration of pass and honours degree courses from two to three years, the raising of the percentage of marks prescribed for passing degree examinations, credit for class work throughout the degree course and other reforms in the examination system, restrictions on the admissions to colleges, compulsory tutorial classes for undergraduates and the introduction of courses in general education. One of the important chapters of the report is on the problem of the medium of instruction which is facing the Indian universities to-day. While recommending the compulsory study of English as a subject, the commission realized the inevitability of English giving place as the medium of instruction to an Indian language, sooner or later, and accordingly recommended that it be replaced by an Indian language other than Sanskrit, that Hindi be developed through the assimilation of words from different sources, including those forming the international technical and scientific terminology, and that universities should be free to use Hindi as the medium of instruction for some or all subjects as an alternative to the regional language. The commission pointed out that pupils at the higher secondary and university stages will need to learn at least three languages: the regional language, the federal language (Hindi) and English. The report recommended the inclusion of university education in the concurrent legislative list (the list of matters falling within the jurisdiction of the central as well as the state legislatures) and the contribution by the centre (to the extent of 50 per cent.) to the cost of postgraduate and research work in the universities, in addition to capital grants for buildings and equipment and the setting up of a University Grants Commission.

Since the publication of the report of the University Education Commission in 1949, two important events have occurred in the educational history of India, which have had far-reaching consequences on university education in the country, namely, the publication of the report of the Secondary Education Commission in 1952-53 and the setting up of a University Grants Commission in 1956 by an act of the Indian parliament.

By its terms of reference the Secondary Education Commission was asked to report on the position of secondary education in India in all its aspects and to suggest measures for its reorganization and improvement. In making its recommendations, the commission, while expressing its anxiety not to encroach on the purview of the universities, nevertheless strongly advocated the

advisability of abolishing the intermediate stage in the four-year degree course in arts and science, increasing the period of secondary education by one year, and planning a three-year degree course at the university stage. By a strange irony, the universities, with one solitary exception (Bombay), agreed in principle to accept the pattern of the three-year degree course recommended by the commission, and many of them have implemented this course long before the introduction of the reform of the addition of one year at the secondary stage on a wide scale. The result has been that the affiliated colleges have undertaken the responsibility of conducting the pre-university course, and may be obliged to continue to do so for a long time.

By virtue of the enlarged powers given to it by statute, the University Grants Commission is able effectively to promote and co-ordinate university education, maintain standards and assist universities with funds to expand their activities. Realizing the importance of raising standards of university education, the commission has given top priority to the improvement of libraries and laboratories, by making grants to universities and to affiliated colleges, and of the quality of teaching by subsidizing the increased scales of salaries of university and college teachers. It has also made grants to affiliated colleges to meet the additional expenditure incurred by them in introducing the integrated three-year degree course. It also makes grants to universities for postgraduate work and research. The universities find it much easier to get financial assistance from the commission than from the government direct, on account of the less formal relations and better understanding existing between them and the commission, with which they are in close and constant touch (*see also pp 417-418*).

CONSTITUTION (a) *Structure of universities.*

Indian universities are of four main types, viz. (i) unitary teaching, (ii) federal teaching, (iii) teaching and affiliating and (iv) purely affiliating. The majority of them are teaching and affiliating, that is, they carry on teaching activities in their own departments and/or through constituent colleges, the instruction being given either by their own teachers or by teachers of constituent colleges recognized by them. They also affiliate colleges within their jurisdiction which teach under university supervision. The colleges have to abide by their conditions of affiliation with regard to finance, adequacy of staff, equipment, libraries, laboratories, buildings and hostels. In some universities falling in this category the central core predominates, as in Andhra University or in Poona University in the Poona area, in others, the affiliated colleges do most of the teaching, the university's teaching being restricted to a few departments. There are eleven unitary teaching universities in India. A unitary university has been defined as 'one, usually localized in a single centre, in which the whole of the teaching is conducted by teachers appointed by or under

the control of the university'. The control of the teachers, the teaching, the courses of study and the administration are centralized in the university. A unitary teaching university is usually residential, and vice versa Aligarh, Allahabad, Annamalai, Banaras, Baroda, Jadavpur, Kurukshetra, Lucknow, Patna, Roorkee and Visva-Bharati conform to this type. Most of the Indian universities began as affiliating universities, being mainly concerned with laying down courses of study and examining students sent up by their affiliated colleges. They had no control over the teaching imparted in the affiliated colleges and were, for all practical purposes, no more than external, examining bodies. Gradually these universities began to assume teaching functions, and associated the teachers in the affiliated colleges with the framing of their courses and their general administration, until to-day there are only two purely affiliating universities (Agia and Vikram) in the country. The University of Bombay, as reconstituted in 1953, is a federal, teaching university as is the newly constituted University of Kerala (formerly the University of Travancore). Its colleges, in which all the undergraduate teaching is carried on, are constituent colleges, enjoying a great measure of autonomy in their internal administration, but they can be required to pool their resources for both post-graduate and post-intermediate teaching. Their principals are *ex-officio* members of the senate, the academic council and boards of university teaching and the heads of their departments are *ex-officio* members of the university's boards of studies. There is thus a close link between the university and its colleges. Poona University, too, so far as the Poona area is concerned, is a federal, teaching university, though it is an affiliating university in relation to the colleges situated outside Poona.

(b) *Internal government*. The main authorities of the universities and their relation to one another follow more or less the same pattern with minor variations. With a few exceptions, the governor of the state is the *ex-officio* chancellor or nominal head of the university. The chief academic and executive officer of the university is the vice-chancellor, who in most universities to-day is a full-time, paid officer, appointed for a fixed term. His appointment is made by the chancellor from a panel of names submitted by the supreme governing body. In a few universities (Bombay, Nagpur, Poona, Gujarat, Baroda and Shreemati Nathibai Damodar Thackersey Women's Universities and Sardar Vallabhbhai Vidyapeeth) the appointment is still an honorary one. Each university has at least three authorities, viz. the senate or court, the syndicate or executive council, and the faculties. In some there is also an academic council. The senate or court is the supreme governing body, which holds the purse-strings and decides broad questions of policy. Its membership is large, represents a variety of interests and includes *ex-officio*, nominated and elected members. Heads of government departments, university professors and principals of

colleges are included among the *ex-officio* members. A certain number are nominated by the chancellor and the rest are elected by university and college teachers, headmasters, registered graduates, local bodies, associations, the state legislature and donors of large amounts. The syndicate or executive council, which runs the day-to-day administration and handles its finances, is perhaps the most effective body in a university. It consists of the vice-chancellor, the director of public instruction, elected representatives of the supreme governing body, the faculties and principals. The academic and the lay element in it are usually evenly balanced. The faculties usually function through boards of studies in the several subjects included in them. They and the academic council, which consists mainly of teachers and heads of affiliated institutions, deal with purely academic questions, such as the framing of courses, the organization of teaching and regulation of examinations. In a few universities there are special boards of university teaching. Except in Roorkee University and the Shreemati Nathibai Damodar Thackersey Women's University, which have each one faculty only, namely, engineering and arts respectively, the number of faculties varies from four to twelve.

RELATIONSHIP TO GOVERNMENT. Only four Indian universities, viz. Aligarh, Banaras, Delhi and Visva-Bharati, were established by acts of the central government. All the other universities have been created by state legislatures. In the sense that they are dependent on the central or the state government, as the case may be, for their constitution and powers, they may be said to be under government control, but they enjoy the greatest measure of autonomy in their internal administration. They stand midway between the British and the continental universities. While government control over them is nothing like the all-pervading control of the state over the universities of France or Italy, they do not enjoy the full freedom of the British universities. The control of government is more indirect than direct. Thus the governor of the state is, as a rule, the chancellor and he appoints the vice-chancellor. When the vice-chancellor is nominated from a panel, the final power of approval or veto rests with the chancellor. The chancellor's approval is necessary in some universities before a statute or regulation passed by their supreme governing bodies can become effective. In many universities the final power with regard to the affiliation and disaffiliation of colleges is in the hands of the government. Heads of certain government departments are *ex-officio* members of the supreme governing bodies, and the chancellor has the right to nominate a number of their members. The president and the governors of states are usually invested with visitatorial powers or powers of enquiry and inspection, though these are rarely exercised. The accounts of the universities are subject to government audit.

Government Grants and the University Grants Commission. Under the Indian constitution,

university education, excluding the four central universities, is a state subject. The universities have to look to their state governments for financial assistance. They also receive special grants, mainly for postgraduate and research work, from the funds placed at the disposal of the University Grants Commission by the government of India.

A University Grants Committee, consisting of four members, was formed in 1945 to advise the central government on the grants to be made to central universities. In 1946, and again in 1947, its membership was increased and it was empowered to deal with the other universities also. Its chairman was not a full-time officer. The Radhakrishnan commission recommended drastic changes in the constitution and powers of this committee, the most important of which was that it should be an expert body with power to allocate grants, within the total limits set by the government, instead of merely recommending their allocation to the finance ministry. In November 1953 the University Grants Commission, consisting of a full-time chairman and secretary and eight members, was set up by a resolution of the government of India to act as an expert body of advisers to the central government on the allocation of funds for grants-in-aid to the universities, and the disbursements of grants out of the funds placed at its disposal. By act of parliament (no. 3 of 1956) the commission was made a statutory body, consisting of nine members, including the chairman, whose office is a whole-time, salaried one. All the members, including the chairman, are appointed by the central government. Not more than three of them must be chosen from among the vice-chancellors of universities, two must be officers of the central government. The remaining members must be educationists or persons who have obtained high academic distinction. The commission is assisted in its work by a full-time paid secretary and staff. It is empowered to associate with itself persons whose assistance or advice it may need. Its duties and functions are to enquire into the financial needs of universities, allocate and disburse out of its fund grants to the central universities for their maintenance and development and to other universities for their development, advise the central and state governments on the allocation of grants, establishment of new universities, or proposals for expanding the activities of existing universities, collect information from and on behalf of universities and generally to take steps for the promotion and co-ordination of university education and maintenance of university standards. The University Grants Commission is under a statutory obligation to present annual reports of its activities to the central government. These reports are laid before both houses of parliament. Three such reports have so far been published. Mr. D. S. Kothari is the chairman of the commission and Mr. S. Mathia is its secretary. The address of the commission is Old Mill Road, New Delhi, 2

Realizing the importance of raising the standards of education in the universities, the University Grants Commission decided to give top priority to the improvement of libraries and laboratories and of the quality of teaching in the universities in its programme under the second five-year plan (1956-61). It has accordingly been making grants for the strengthening of their libraries and laboratories and giving them subsidies for raising the salaries of their teachers.

Grants to universities and colleges. During 1959-60 the University Grants Commission made grants to the universities for the implementation of schemes relating to subjects in the humanities and social sciences to the extent of Rs. 9,005,000 and in science and technology to the extent of Rs. 7,605,500. For the development of post-graduate teaching and research in specialized fields in science it assisted the universities of Delhi and Osmania in establishing departments of astronomy and astrophysics, Nagpur and Saugam in introducing courses in applied geology, Andhra and Banaras in providing training facilities in geophysics, and Annamalai and Kerala in strengthening the existing facilities for training and research in marine biology. It also provided facilities for teaching in specialized fields in the humanities: archaeology in Allahabad, Baroda, Calcutta, Madras, Patna and Poona, museology in Baroda and Calcutta, Buddhist studies in Banaras and Delhi; and music in Annamalai, Banaras, Baroda, Delhi and Visva-Bharati. It helped in the establishment of 18 new post-graduate departments in science and technology and 46 new departments in the humanities and social sciences, involving the creation of 157 additional teaching posts (25 professors, 51 readers and 81 lecturers). In pursuance of its liberalized policy of assisting affiliated colleges, in view of the fact that by far the larger part of the actual teaching, including some of the post-graduate work, is provided by more or less autonomous colleges affiliated to the universities, the commission gave grants to as many as 248 affiliated colleges for such basic requirements as hostels, libraries and laboratories, apart from grants to enable them to raise the salaries of their teachers.

Other grants. The University Grants Commission also makes grants for the holding of periodic conferences and seminars on various subjects for the benefit of university and college teachers and makes grants to individual teachers to enable them to visit centres of research in particular subjects for short periods.

The grants in the Table on p. 419 were paid by the commission to the universities (figures in millions).

FINANCE. In 1957-58* the income (in crores) of universities was: recurring, Rs. 13.75, non-recurring, Rs. 5.04; and of colleges: recurring, Rs. 24.9; non-recurring, Rs. 5.54. The main sources (in crores) were: state governments, Rs. 18.44, student fees, Rs. 16.12, central government, Rs. 8.42.

* Figures supplied in 1960 by Ministry of Education, Government of India

	1957-58	1958-59	1959-60
	Rs	Rs	Rs
(i) Humanities	4,587,344	18,192,107	21,826,470
(ii) Science	2,397,196	4,973,473	10,137,216
(iii) Technology	4,532,366	9,663,256	8,694,233
(iv) Central Universities *	18,279,754	21,601,781	29,431,973
(v) §Centenary grants to Bombay, Calcutta and Madras Universities	4,861,000	2,179,000	3,122,000
Total	34,657,660	56,609,517	73,211,892

* Aligarh, Banaras, Delhi, Visva-Bharati

§ The University Grants Commission decided to grant sums of Rs 1 crore each to these three universities to commemorate their centenaries which they celebrated in the early part of 1957

PRE-UNIVERSITY EDUCATION The examination which a student has to pass before he can enter upon a course of university study is the secondary school (leaving) certificate examination held by the board of secondary education set up for the area in which the university is situated, or the matriculation or entrance examination held by the university itself. Very few universities in India to-day (e.g. Nagpur and Punjab) hold their own matriculation or entrance examinations. The majority of pupils completing their high-school course take one of the school certificate examinations. The duration of the high-school course is ten years in most of the states and eleven years in Bombay. This period includes the time spent in the four primary standards and the three standards of the middle school. Instruction in the secondary schools, except in a few English teaching schools, is given through the pupil's mother-tongue or the regional language of the area. Not every holder of a secondary school certificate is eligible for admission to a university. The universities prescribe the subjects and minimum percentage of marks necessary for the purpose. In addition to the secondary schools, which provide education only in literary subjects, there are technical, agricultural and commercial high schools from which pupils can take the school certificate. Subject to certain restrictions, certificate holders from such vocational schools are also eligible to join a university. Pupils who join schools which prepare them for the Cambridge school certificate or higher school certificate examination are also admitted to the arts or science courses, provided that they pass in certain subjects or obtain a certain number of credits. In many universities, especially in north India, a Cambridge school certificate holder is admitted straight to the second year of the four-year arts or science degree course. For admission to Delhi University, which has a three-year degree course, a candidate has to complete the course for the higher secondary examination and pass it. The entrance qualification for the Allahabad, Agra and Lucknow universities is the passing of the intermediate examination of an Indian university,

of the board of high school and intermediate examination (Uttar Pradesh), or an equivalent examination. When the three-year degree course is introduced in the universities, pupils who have completed the school-leaving certificate course will have to spend one more year in a pre-university course of study, either in a higher secondary school or in a college, before they are permitted to enter upon the degree course.

ADMISSION In theory, all qualified applicants have the right of admission to university courses of study, but, in practice, owing to the limited number of places, it often becomes necessary for the authorities of the institutions to make a selection from among the applicants. This happens especially in the medical, engineering, commerce and teachers' training colleges. The relevant authority lays down its own criteria for making the selection. Performance at the qualifying examination, distinction in sports and extra-curricular activities and membership of the national cadet corps are the chief determining factors.

Mention has been made above of the requirements for admission to the first-degree courses in arts and science. As regards professional courses leading to the first degree, the minimum requirements vary to some extent from university to university, except for the medical and engineering courses, where there is a greater degree of uniformity. Thus, the universities with four-year degree courses insist on the passing of the intermediate science examination with physics, chemistry and biology for admission to the MB BS course and the intermediate science examination with mathematics for admission to the BE or BSc(Eng) course. Those universities which have a three-year degree course require the passing of the pre-professional examination with biology and mathematics respectively. Owing to the comparatively small number of places available and the large number of applicants, candidates who have not obtained good marks at the qualifying examination have little or no chance of securing admission to these courses. Some universities have laid down further conditions, such as the

securing of 45 or 50 per cent. of the marks, or passing in the first division, as the minimum requirements for admission to the medical or the engineering course. Except in Bombay and Karnataka universities, only graduates are admitted to the LLB or BL degree course. In the two above-mentioned universities, a student passing the intermediate examination in arts, science or commerce, or part I of the BA examination, is admitted to the law course, though he has to study for three years, whereas for graduates the course is one of two years. The qualification for admission to the degree course in commerce is the intermediate arts, science or commerce, or the pre-university examination, except in some universities where admission to the course, which is one of four years, is made after the secondary school certificate examination, e.g. in Baroda, Bombay, Gujarat, Karnataka and Poona universities, and in Delhi, where the minimum requirement is the passing of the higher secondary examination and the course is one of three years. The minimum qualification for admission to the BSc Agriculture course is intermediate science, pre-professional, or intermediate science (agriculture), except in the Gujarat, Karnataka, Marathwada and Poona universities, where the course is one of four years after the secondary school certificate examination.

The requirement for admission to postgraduate study and research is the possession of a first degree in the same faculty. The higher degrees are, as a rule, open to graduates of other universities on a reciprocal basis. The master's degree by papers can be taken after two years of study. In Annamalai, Andhra and Madras universities, a candidate who had passed the BA (hons.) or BSc (hons.) examination was until recently entitled to take the master's degree by mere efflux of time. In some universities the master's degree can also be taken by research. The PhD degree can be taken only by research, not less than two years after the master's, or three years after the bachelor's, degree. For research degrees the candidate has to work under the guidance of a recognized university teacher. He has also to submit a thesis and undergo a *viva voce* test, unless he is exempted therefrom on the recommendation of his referees. In certain universities only students who have done well in the first degree examination are permitted to undertake postgraduate study or research.

STRUCTURE OF DEGREE AND DIPLOMA COURSES
Most of the universities have decided to adopt the integrated three-year course for the BA and BSc degrees, involving the abolition of the intermediate examination, as recommended by the Secondary Education Commission (1952-53). The details of the course have yet to be settled by the universities, and there are bound to be certain variations in them. The main idea underlying this course is to alter the former pattern of university education by transferring one year of the old four-year degree course to higher secondary schools, making it a pre-university course. Until

the secondary high schools are upgraded into higher secondary schools, this pre-university course will be taught in the affiliated colleges. Simultaneously with the introduction of the new three-year courses, integrated courses in general education, on the lines recommended by the Radhakrishnan commission in chapter V of their report, are likely to be adopted by most universities. The University Grants Commission is giving financial aid to the universities to implement their schemes in this regard.

All the teaching and affiliating universities in India, except Bombay, have agreed in principle to accept the scheme of the three-year degree course. The universities of Uttar Pradesh propose to have a three-year degree course after a twelve-year school-cum-intermediate course and the University Grants Commission has agreed to assist these universities on a 100 per cent. basis towards their capital projects (excluding hostels). The implementation of the scheme in the state universities was financed until recently on an equal sharing basis between the state governments and the universities and managements of colleges on the one hand, and the government of India and the University Grants Commission on the other. On the recommendation of the planning commission, and with the concurrence of the ministry of education, the University Grants Commission has agreed to take over the entire responsibility for the implementation of the three-year degree course scheme in all Indian universities from the financial year 1960-61. The three-year degree course has already been introduced in the following twenty-six universities: Aligarh, Andhra, Annamalai, Banaras, Baroda, Calcutta, Delhi, Jabalpur, Jadavpur, Karnataka, Kerala, Madras, Marathwada, Mysore, Nagpur, Osmania, Panjab, Poona, Rajasthan, Sardar Vallabhbhai Vidyapeeth, Saugar, S N D T Women's, Sri Venkateswara, Utkal, Vikram and Visva-Bharati.

The three-year degree course is preceded by the pre-university course examination which is at present being conducted by the universities. The course includes compulsory and optional subjects. The universities hold an examination at the end of the second year in the compulsory subjects and in some papers of the optional subjects. In some universities there is an examination at the end of the first year also. Failure in these examinations does not prevent a student from proceeding to the final or third year of the degree course in which he is examined in the optional subjects only.

Students wishing to join a professional course in medicine or engineering are required to undergo what is called a pre-professional course in science subjects, with a professional bias, which is at present being taught in the degree colleges in arts and science, although it is the intention that these courses should eventually be catered for by the professional colleges themselves. The pre-professional examinations correspond to the old intermediate science examinations.

Under the pattern of the old four-year degree course some universities had a special honours

examination with advanced courses of the duration of two or three years after the intermediate examination. Andhra, Annamalai and Madras had a three-years' honours course, and conferred the MA degree, without further examination, on candidates taking the honours degree, after the lapse of a certain period. They have discontinued these courses since the introduction of the three-year degree course. Among the universities which have already switched over to the three-year degree courses only one (Poona) has an honours course of the same duration as the pass or general course, but with a larger number of papers and with specialization, on the lines of the honours courses of Delhi University. The other universities have not instituted honours courses so far. Bombay University, which still follows the old pattern of the four-year degree course, has two types of courses, known as 'general' and 'special', each of two years' duration, the difference depending upon the groups and selection of subjects. A candidate can secure honours in either course, depending upon the level of his performance at the examination. In practice, however, a very small number of candidates select the 'general' course.

The duration of courses leading to the BSc(Eng) or BE (civil, electrical and mechanical) degrees varies from three to five years after the intermediate science, or pre-professional, examination. In some universities the course includes practical training, varying from six months to a year, in others, there is no provision for practical training. The course for the MB BS degree varies from five to six years after the intermediate science, or pre-professional, examination. It includes internship from six months to a year in all universities except Agra and Mysore. The course for the LLB or BL degree varies from two to three years. The course for the bachelor's degree in commerce varies from one year after the pre-university examination, or two years after the intermediate arts, science or commerce examination, to four years after matriculation. Two universities (Andhra and Madras) have honours course, and in one university (Bombay) candidates passing in the second class are deemed to have passed with honours. The BSc(Agr) course varies from three years after the intermediate science or the higher secondary examination to five years after matriculation. The degree courses

in dentistry and veterinary science are each of four years' duration after the intermediate science examination, and the BEd or BT course covers one year after graduation in all universities. The courses in technological subjects (other than engineering) are usually of four years' duration after the intermediate science examination or two or three years after the BSc degree. It may be broadly stated that those universities which have adopted three-year degree courses in arts and science have substituted the pre-professional or some other examination corresponding to the intermediate, as the springboard for admission to the professional courses.

Study for a postgraduate qualification normally involves attendance at advanced courses of lectures, clinics or practicals, as the case may be. Where the degree is by research, the candidate has to work under the supervision of a recognized teacher except for the DLitt and DSc degrees, which are awarded on the basis of independent research.

Most universities conduct diploma courses in a variety of subjects, cultural, technical and professional, such as foreign languages, journalism, public administration, foreign affairs, music, soap-making, pottery, teaching, librarianship and medical subjects. Some are postgraduate diplomas, others undergraduate. The duration of the courses varies from one to three years.

Some universities confer 'oriental titles' (corresponding to degrees or diplomas) on candidates who pass their examinations in courses in languages such as Sanskrit, Arabic or Urdu, or in Ayurveda or Unani (indigenous systems of medicine), or in theology or music. These courses are taught at the university level, and must not be confused with courses provided by institutions other than universities which confer their own titles on those who pass their examinations. These institutions are colleges maintained or sponsored by state governments or by learned bodies with a view to encouraging traditional courses and methods of instruction in Sanskrit or other oriental languages. For a list of oriental titles conferred by universities, see p. 426.

STAFF The teaching staff in university departments consists of professors, readers, lecturers and demonstrators. The affiliated colleges have professors, assistant professors, lecturers and demonstrators, but no readers.

NUMBER OF TEACHERS BY DESIGNATION, 1958-59 *

	Principals/ Vice- Principals/ Directors	Professors/ Assistant Professors	Readers	Lecturers	Others	Total
University Teaching Departments	—	1068	344	1,127	287	2,826
University/Constituent Colleges	208	1322	690	6,777	2501	11,498
Affiliated/Associated Colleges	1032	4623	689	18,301	4691	29,336
Total	1240	7013	1723	26,205	7479	43,660

* Figures are provisional

The scales of pay in the universities are more or less uniform, whereas in the colleges they vary considerably. Some universities have prescribed minimum scales of pay for their college teachers. As a result of the subsidies given by the University Grants Commission, the revised scales of salaries of universities which receive such subsidies are uniform. The professors are paid Rs. 800-50-1250 per month, the readers Rs. 500-25-800 and the lecturers Rs. 250-500, with annual increments of not less than Rs. 20. The commission pays to the universities 80 per cent. of the increased expenditure due to revision, while the remaining 20 per cent. is borne by the state government or the university concerned. The four central universities pay according to the same scales as those mentioned above, with slight variations in the lecturers' scales to meet local requirements. Bombay University pays its lecturers Rs. 300-25-600. Panjab University also has slightly higher scales for its teachers. Many of the affiliated colleges have recently upgraded the salaries of their teachers on a sharing basis, the commission subsidizing the increased expenditure to the extent of 50 per cent. and the state government or the college contributing the balance.

The usual method of instruction consists of the lecture, the tutorial and the seminar. Lectures predominate. Tutorials and seminars are held, once a week or fortnight, in different subjects. A college teacher is usually not burdened with more than fifteen lectures in a week, if he does not take postgraduate classes. Teachers of undergraduate classes generally get very little time to do their own research.

The practice of sabbatical leave as such is non-existent in the colleges. Teachers in the university departments are permitted to go on study leave up to a maximum of three or four years during the entire length of their service. The age of superannuation in most universities is sixty years, which may be extended by two to five years in special cases. In a very few universities it is fifty-five. No distinction is made in the case of those coming from abroad, unless the appointment is on contract for a fixed period.

The usual method of filling vacant teaching posts is by advertisement in the Indian newspapers, and sometimes also in foreign newspapers. Appointments are ordinarily made by the executive council on the recommendation of statutory selection committees, which include experts unconnected with the university.

There is no statutory bar to the appointment of nationals of other countries to university or college teaching posts, although the number of such persons is rapidly decreasing on account of the availability of Indians with high academic qualifications obtained in foreign universities. The majority of teachers are persons who have taken their first degrees in India. Only a small minority have received their first degree training abroad. The older universities have on their staffs a fair proportion of teachers who have graduated from

other universities, although the majority are from the home university.

STUDENTS Most universities enrol only full-time students but some have students taking diploma or evening courses. In *Agra University* about 25 per cent. of the students are part-time, in *Gauhati* about 17 per cent. and in *Baroda* about 12 per cent. About 13 per cent. of the students in *Poona University* are external students, i.e. persons gainfully employed in the university area, who are allowed to appear for its examinations without keeping terms, after registering their names in the university office. *Calcutta*, *Delhi*, *Madras* and *Utkal* universities have small numbers of part-time students. Some of the universities, e.g. *Agra*, *Nagpur*, *Osmania*, *Rajasthan* and *Utkal*, permit certain categories of persons, such as school teachers, educational inspectors, women, librarians, library clerks and laboratory assistants, to appear as private candidates at their examinations. Very few universities conduct vacation courses or summer schools. *Poona University*, for example, conducts such a course for the *MED* examination for secondary school teachers. The majority of students live in their own homes. About 10 to 20 per cent. live in halls of residence or hostels maintained by the universities or affiliated colleges. It is usual for a university, when affiliating a college, to lay down a condition that it shall make provision for the accommodation of a certain proportion of its students in its own hostel.

Most universities and colleges have their own students' unions or representative councils. Every college has its own athletic club and a number of societies conducting cultural activities such as literary, dramatic, debating, historical and philosophical societies or clubs.

Almost every university has its contingent of the national cadet corps. Girls' divisions have recently been started in many universities. Student welfare activities are on the increase. The government of India organizes an annual inter-university youth festival. Students take part in training camps, village apprenticeship and development schemes, and labour corps, for which the universities receive financial assistance from government. Universities and colleges have their own medical officers to look after the health of their resident students. In some universities there are arrangements for the medical examination of entrants. Some universities have made physical training compulsory in the first two years of the degree course. A few universities have foreign universities' information bureaux, and *Calcutta University* has also an appointments board. As the number of students from overseas is increasing, the universities are considering a proposal to appoint advisers for them. A few universities have student counsellors.

The tuition fee varies from Rs. 120 to Rs. 250 per annum for arts and science courses, and from Rs. 250 to Rs. 400 for professional and technological courses. The cost of residence in hostels,

including boarding, varies from Rs 80 to Rs. 100 per month. For overseas students, it may go up to Rs 150 per month, but much depends on whether the university is situated in a small town or a large city.

The major sources of financial assistance by way of research studentships, fellowships and scholarships are (a) the government of India and/or the state government (b) university or college funds and (c) endowments. The government of India awards a certain number of scholarships to students coming from abroad. They also award scholarships to backward class students. The universities and colleges, too, award free studentships to deserving but poor students. As a rule, however, scholarships and other financial awards are made on the basis of merit. Figures are not available to show to what extent students receive financial assistance, though, on a rough estimate, it may be said that about 10 per cent receive financial aid. Vacation employment of students is practically unknown.

The University Grants Commission gives grants to students' and funds established in the universities and colleges for rendering financial assistance to poor students to meet their tuition or examination fees or to purchase books or meet similar other expenses in connexion with their studies. Such grants are made on a fifty-fifty basis, subject to a maximum amount of Rs 10,000 for a university and Rs 2000 for a college. During the year 1959-60 the Commission subsidized health centres in the universities of Aligarh, Jodhpur, Karnatak, Patna and Roorkee.

The average age of Indian students joining universities is 17 plus. Foreign students (for statistics, see p. 427) are usually much older, i.e. between 18 and 24, as many of them come only for professional or postgraduate studies.

The total number of students has been increasing from year to year. It increased from 420,000 in 1951 to 862,539 in 1958-59. Of the 862,539, 115,432 were women. See also 'Statistics', p. 426.

ACADEMIC YEAR The academic year is divided into three terms in most universities. Some have only two terms. The academic year usually begins in June or July and ends in March or April. In the Jammu branch of the Jammu and Kashmir University and in Roorkee University it begins in September, and in the Panjab University in October. The long (summer) vacation, except in these three universities, falls between March and July. The difference in the terms and vacations is mainly due to climatic conditions. Most universities have a short break of a fortnight to a month in October, and another short break of ten days to a fortnight in December. No vacation courses are held in summer to enable students to earn credit for attendance.

ADULT EDUCATION The idea of extra-mural classes and university extension is comparatively new. Some universities have, however, recently been moving in that direction; for example, Poona University has established a board of

extra-mural studies which is responsible for adult education in the university area. It has 71 extra-mural centres where more than 600 lectures were delivered in 1957. It also conducts summer and autumn schools, mainly for school teachers, at a few extra-mural centres. The Marathwada University has a statutory board of extra-mural studies. It has 18 centres where about 153 lectures were delivered in 1960-61. Bombay University has recently started adult education classes in Hindi and Marathi in labour areas for labourers in mills and factories and in English for office employees desirous of acquiring a knowledge of cultural subjects. Some other universities also conduct adult education classes through their own lecturers and college teachers. The University Grants Commission gives financial assistance for university extension courses to universities undertaking them.

INTER-UNIVERSITY ORGANIZATIONS In pursuance of a resolution passed by the first conference of Indian universities held at Simla in 1924, the Inter-University Board of India was established in 1935 to co-ordinate the work of the Indian universities, by providing for the discussion of common university problems, acting as a bureau of information, facilitating the exchange of professors, assisting the universities in obtaining recognition for their degrees by other universities, and in other ways. Member universities are represented on the board by their vice-chancellors and, in their absence, by members of the syndicate or executive council. The universities of Rangoon and Ceylon are also members of the board. The board meets annually to consider proposals from individual universities and the government of India, and also convenes quinquennial conferences to discuss important university problems. Through a subsidiary sports board it conducts inter-university tournaments in the major games and in athletics. In addition to the proceedings of its annual meetings and conferences, its *Bulletin*, *Lists* of subjects in which research is in progress in the universities and research institutes and the *Bibliography of Doctorate Theses* accepted by the universities, it publishes a *Handbook* giving detailed information about the Indian universities and research institutes. It is in relationship with the Association of Universities of the British Commonwealth. The board has a standing committee, elected biennially, which acts as its executive body. The presidentship rotates annually among the vice-chancellors. The office of the board is located at 13 Lucknow Road, Civil Lines, Delhi, India. The chairman of the standing committee of the board is N. K. Sidhanta, MA Camb, Hon. LLD Tor, Vice-Chancellor of the University of Delhi. The secretary of the board is Professor V. K. Ayappan Pillai, MA Madr, BA Oron.

There is no national association of university teachers in India, although there are local associations in some universities, e.g. Bombay and Poona, whose activities are mainly social.

There is a body called the National Union of Students, to which a few students' unions are affiliated, but it cannot be said to be a very representative body.

THE UNIVERSITIES TO-DAY. The universities are faced to-day by a number of problems, largely the result of the situation in which India finds herself since independence, and the rethinking which has become necessary for them to fulfil the requirements of the country in which they must play their rôle as integral parts of her national life. The main problems are inadequacy of staff and equipment, the pressure of an ever-increasing number of students and the replacement of English by a suitable Indian language as the medium of instruction. In a way, the universities are in a better position now than they ever were before, inasmuch as the University Grants Commission is always willing to help them. With its assistance they have been able to improve the pay scales of their teachers, build or extend their scientific and technological laboratories, strengthen their libraries and provide more accommodation for their students and staff, and, in particular, to extend their research facilities. They are anxious to bring about closer contacts between teacher and student by laying greater emphasis on tutorials and seminars than on lectures, and to improve the examination system by making the examinations more objective and giving credit to the students for their class work. They realize the importance of character-building and physical welfare for their students and the creation in them of a spirit of self-sacrifice and a desire to render social service by encouraging them to take part in labour camps and village development schemes and impressing upon them the dignity of manual labour; in a word, to make them keenly alive to the need of making their individual contribution to the building up of a more contented, prosperous and happy India. Student welfare and activities, therefore, loom large in their programmes. Their students are keen on building roads and schools for the poor villagers and swimming pools and open-air theatres for themselves by voluntary labour during their vacations. The universities themselves are extending their teaching activities and giving greater scope to their teachers and students for the development of research. Among the new specialized courses recently introduced are business management, industrial engineering and industrial administration. Nuclear research is also receiving special attention. Building programmes are going forward all over the country. New scientific laboratories and more and better hostels are being built. The constitutions of the universities are being amended with a view to strengthening the academic element. The prospect for university education for the next few years is promising, although the heavy demands made on the country's finances by the urgent need for agricultural reform and industrial expansion have made it difficult for the government to provide adequate funds for the expansion of

university education. The problem of the medium of instruction has yet to be satisfactorily solved amidst the conflicting claims of Hindi and the other regional languages.

INSTITUTIONS OF HIGHER EDUCATION OTHER THAN UNIVERSITIES. Although the universities cover the major part of the instruction in the field of higher education, it cannot be said that 'higher education' is synonymous with 'university education'. There are a number of institutions of higher education and research which work in collaboration with, or independently of, the universities. Thus, the Bhandarkar Oriental Research Institute, Poona, is a constituent recognized institution of Poona University. The Tata Institute of Fundamental Research at Bombay, which provides instruction of a high order in specialized branches of physics, mathematics and other allied sciences, is recognized for the guidance of candidates for the masters' and doctors' degrees of Bombay University. The University of Bombay recognizes for its postgraduate degrees the research work carried on in the Indian Cancer Research Centre, Bombay, and in the Atomic Energy Establishment, at Trombay, under the guidance of the members of the research staffs of these institutions in subjects for which they have special facilities. The Central Building Research Institute, Roorkee, which is one of the national laboratories, works in close liaison with the University of Roorkee. The Leather Research Institute, Madras, and the Harcourt Butler Technological Institute, Kanpur, stand in a similar relation to the universities of Madras and Agra respectively. The national laboratories, set up by the government of India, and some of the central research institutes, are recognized by many of the Indian universities as institutions which can send students working in them for the postgraduate research degrees of the universities concerned. The All-India Institute of Medical Sciences, New Delhi, established under an act of parliament (Act 25, of 1956), and the Indian Institute of Technology, Bombay, give their own degrees in medicine and engineering, respectively. The Forest Research Institute, Dehra Dun, is a centre for the whole country for technical instruction in forestry, and confers the diploma of forestry research in India at the end of a year's course. The Central Food Research Institute, Mysore, conducts fundamental and applied research in different branches of food and a postgraduate course of two years in fruit technology, leading to an associateship of the institute. The Indian Statistical Institute, Calcutta, provides teaching courses leading to its associateship and fellowship. The Serampore College, West Bengal, functions as a university in the faculty of theology, while submitting its students in arts and science to the examinations of the University of Calcutta. The Indian Institute of Science, Bangalore, which provides instruction and facilities for research in general chemistry, organic chemistry, biochemistry, physics, applied mathe-

matics, metallurgy and various branches of engineering, has recently been accorded the status of a university. The Indian Institute of Technology, Kharagpur, in West Bengal, is another non-affiliated institution conducting courses in civil, electrical, mechanical and agricultural engineering, architecture and naval architecture, and awarding its own degree of bachelor of technology. The Jama Millia Islami, Jamianagar, Delhi, provides courses in the arts and social sciences leading to an examination which is recognized by government as equivalent to the BA degree of an Indian university.

For detailed information about institutions of higher education and research other than statutory universities the reader is referred to the current edition of the *Directory of Institutions for Higher Education* published by the Ministry of Education, Government of India, New Delhi.

FURTHER INFORMATION (see also Appendix VI and the 'Publications' section in each university entry below). In addition to the *Handbook of the [Indian] Universities, 1958*, and other publications of the Inter-University Board of India mentioned above, the following may be consulted

University Education Commission Volume I Report and Appendices, Volume II Evidence (Manager of Publications, Delhi, 1949 and 1951)

Directory of Institutions for Higher Education (Ministry of Education, Government of India, New Delhi), annual

Report of the University Grants Commission, 1959-60 (U G C, New Delhi, 1960.)

Education in Universities in India. (Ministry of Education, Government of India, New Delhi, 1959)

Commonwealth Universities Yearbook (A.U.B.C., London), annual

Information on specific university topics can be obtained in reply to written enquiries from .

The Secretary, Inter-University Board of India, 13 Lucknow Road, Civil Lines, Delhi

The Ministry of Education, Government of India, New Delhi

The Secretary, University Grants Commission, Old Mill Road, New Delhi, 2.

DIRECTORY TO SUBJECTS OF STUDY

The following subjects in arts and science may be studied at most Indian universities: botany, chemistry, economics, English, French, geography, geology, German, Hindi, history of India and Europe (ancient, medieval and modern), mathematics, modern Indian languages spoken in the area, Pali, Persian, philosophy, physics, political science, psychology, Sanskrit, sociology, statistics and zoology.

A list is given below of certain other subjects which may be studied at universities. Unless otherwise stated, the courses mentioned are for a first degree. Most universities which make provision for degree courses also provide facilities for master's and/or doctor's degrees in the same subject.

Agriculture Courses leading to the BSc(Agr) or BA degree are provided by Agra, Allahabad, Andhra, Banaras, Bihar, Calcutta, Delhi, Gauhati, Gorakhpur, Gujarat, Jabalpur, Karnatak, Kerala, Madras, Marathwada, Mysore, Nagpur, Orissa, Panjab, Poona, Rajasthan, Sardar Vallabhbhai Vidyapeeth, Saugar, Utkal and Vikram. A BSc (Dairying) is awarded by Panjab.

Commerce. Except for Jadavpur, Roorkee, S N D T. Women's and Visva-Bharati, all universities have a bachelor of commerce degree.

Dentistry. The BDS is awarded by Bombay, Calcutta, Lucknow, Madras and Panjab.

Education. All universities except Allahabad, Bihar, Jadavpur and Roorkee have courses leading to the BEd or BT degree, which are open to graduates in arts, science or commerce. Bombay and Patna also provide diploma courses in education.

Engineering. The BE, or BSc(Eng), in civil, electrical and mechanical engineering, is awarded by all universities except Allahabad, Gorakhpur, Jammu and Kashmir, Lucknow, S N D T Women's and Visva-Bharati. See also Technology.

Fine Arts. Degrees in the fine arts are offered by Baroda and S N D.T. Women's, and diplomas by Allahabad, Annamalai, Banaras, Baroda and Visva-Bharati.

Forestry Courses at Delhi

Home Science. Degree or diploma courses at Allahabad, Baroda, Calcutta, Delhi, Jabalpur, Madras and S.N.D.T. Women's.

Indigenous Medicine. Degrees in Ayurveda are offered by Banaras, Kerala, Lucknow and Poona, and in Unani medicine and surgery by Aligarh. Madras awards a BIM (Indian medicine).

Journalism. Diploma courses in journalism are offered by Calcutta, Madras, Nagpur, Orissa, Panjab.

Law. With the exception of Annamalai, Baroda, Jadavpur, Jammu and Kashmir, Roorkee,

S.N.D.T. Women's, Sri Venkateswara and Visva-Bharati, all universities have courses leading to the LLB or BL.

Library Science. Delhi has a degree and a diploma course. Aligarh, Andhra, Banaras, Baroda, Bombay, Calcutta, Madras, Nagpur and Poona have diploma or certificate courses only.

Medicine. The MB BS degree is awarded by Agra, Andhra, Baroda, Bihar, Bombay, Calcutta, Delhi, Gauhati, Gujarat, Jabalpur, Karnatak, Kerala, Lucknow, Madras, Mysore, Nagpur, Orissa, Panjab, Patna, Poona, Rajasthan, Sri Venkateswara, Utkal and Vikram.

Musology. Diploma courses at Baroda and Calcutta.

Music. Degrees in music are awarded by Annamalai, Banaras, Baroda, Calcutta, Madras and Visva-Bharati, and diplomas or certificates by Agra, Allahabad, Andhra, Annamalai, Banaras, Baroda, Gorakhpur, Madras, Patna, Poona and (music and dance) Visva-Bharati.

Nursing. Calcutta, Delhi, Madras and S.N.D.T. Women's offer a BSc in nursing.

Oriental Learning. Courses in oriental learning leading to bachelor's or master's degrees or diplomas, or (see below) oriental titles are provided by Andhra, Annamalai, Banaras, Baroda, Bihar, Jammu and Kashmir, Kerala, Madras, Orissa, Nagpur, Panjab, Patna and Rajasthan. Sanskrit, Pali and the modern Indian languages are taught in almost all universities.

Pharmacy. Degrees (BPharm or BScPharm) are offered by Agra, Andhra, Banaras, Bombay, Gujarat, Madras, Nagpur, Panjab, Rajasthan and Saugar.

Physical Education. Diplomas are awarded by Lucknow, Madras and Panjab.

Public Administration. Nagpur has a post-graduate course for the M.A. Lucknow, Madras, Orissa and Patna have diploma courses. A diploma in local self-government (administration) is awarded by Allahabad and Nagpur.

Religion and Culture. Courses at Orissa.

Russian. Diploma or certificate courses at Aligarh, Allahabad, Delhi, Lucknow, Orissa.

Social Work. Degrees or diplomas are awarded by Allahabad, Annamalai, Baroda, Calcutta, Delhi, Gorakhpur, Lucknow, Madras, Patna and Vikram.

Technology (other than civil, electrical and mechanical engineering) *Agricultural engineering* is taught only at Allahabad, *highways* at Madras

and Roorkee, *mining* only at Banaras, *applied chemistry* only at Calcutta, *ceramics & glass technology* only at Banaras, *food technology* at Bombay and Kerala, *intermediates & dyes, pigments, paints & varnishes and plastics* only at Bombay, *leather technology* at Madras, *oil technology* at Nagpur and *tanning* at Calcutta. Courses in *architecture* leading to the BArch are available at Baroda, Bombay, Calcutta, Delhi, Madras and Roorkee. Nagpur awards a diploma in *architecture*. Courses in *chemical engineering* leading to the BE or BSc(ChemEngin) are offered by Andhra, Annamalai, Banaras, Bombay, Delhi, Jadavpur, Madras, Nagpur, Panjab and Orissa. Banaras, Calcutta and Poona provide courses in *metallurgy* leading to the BSc or BE. Degree courses in *textile technology* and/or *textile chemistry* are offered by Baroda, Bombay, Delhi, Madras, Mysore and Panjab. Jadavpur, Madras, Poona, Rajasthan and Saugar have courses in *telecommunication engineering* leading to the BSc(Tech), BE or BTele. See also Engineering.

Veterinary Science. Agra, Andhra, Bihar, Bombay, Calcutta, Gauhati, Jabalpur, Kerala, Madras, Orissa, Panjab, Rajasthan, Saugar, Sri Venkateswara, Utkal and Vikram offer courses leading to the BVSc or BSc(Vet).

Oriental Titles

Acharya Ban., Bda., Luck., *Adib-i-Fazil* Madr., *Afsal-ul-Atibba* Madr., *Afsal-ul-ulam* Kerala, *Afsal-ul-Ulama* Madr., *Alim* Luck., *Ayurvedacharya* Ban., *Bhasha Praveena* And., *Bhudi-man* Panj (I), *Bhushan* Panj (I), *Chakravarty* Ban., *Dabir-i-Kamil* Luck., *Dabir-i-Mahr* Luck., *Fazil-i-Adab* Luck., *Fazil-i-Tafsir* Luck., *Gyam* Panj (I), *Kala-Prapurna* And., *Karma Kand* Shastri Ban.; *Madhyama* Ban., *Madhyama Pariksha* Ban.; *Malpan* Madr.; *Maulvi* Nag., *Maulvi Alim* Nag., *Maulvi Fazil* Nag.; *Munshi* Nag., *Munshi Alim* Nag., *Munshi-i-Fazil* Madr.; *Munshi* *Fazil* Nag., *Pawanik* Bda.; *Paurohtiya Ratna* Ban., *Prabhakar* Panj (I); *Prajna* Jabalpur, Nag., Panj (I), *Pulavar* Annam.; *Rattan* Panj (I), *Sahitya* *Siromani* Kerala.; *Sangita* *Bushana* Annam., *Sangita* *Siromani* Madras., *Shastriacharya* Ban., *Shastri* Ban., Bda., Jabalpur, Luck., Nag., Panj (I), *Siromani* And., Annam., Madr., *Soppar* Madr., *Tabib-i-Kamil* Madr., *Upadhyaya* Bda., *Vachaspathi* Ban., Bda.; *Vedacharya* Ban.; *Ved Shastri* Ban., *Vidvan* Kerala, Madr., *Vidvan* And., Annam., Panj (I), *Vidya Praveena* And., *Visharad* Jabalpur, Nag., Panj (I).

STATISTICS

[Source: Ministry of Education, Government of India]

TOTAL STUDENT ENROLMENT In 1958-59 (the latest year for which official statistics are available)

938,696 students (provisional figures) were enrolled in Indian universities, their constituent and

affiliated colleges, and colleges affiliated to state boards of intermediate education. This figure was made up as follows:—

*General education** intermediate students, 468,990, BA and BSc students, 235,755, MA and MSc students, 36,399, students studying for doctorates, 3403, diploma and certificate students, 6356

*Professional education** intermediate students, 33,450, first degree students, 129,439, post-graduate students, 16,490, students studying for doctorates, 342, diploma and certificate students, 8072

STUDENTS FROM ABROAD The total number of students from abroad enrolled in 1958-59 was 3635. The countries from which they came were: Afghanistan, 4; African countries, 729, Australia, 5; Austria, 1, Belgium, 1, Bhutan, 5, British Guiana, 14, Burma, 105, Cambodia, 7, Ceylon, 927, China, 25, Fiji, 36, France, 2, Germany (west), 8, Goa, 128, Indo-China, 1, Indonesia, 19, Iran, 5; Iraq, 1, Ireland, 1;

Italy, 1, Japan, 7, Laos, 1, Malaya, 244, Malta, 1, Mauritius, 26, Nepal, 547; Pakistan, 456, Philippines, 5, Russia, 3, Saudi Arabia, 13, Sikkim, 52, Switzerland, 2, Thailand, 40, Tibet, 5, Turkey, 1, United Arab Republic, 5, United Kingdom, 2, U.S.A., 17, Vietnam, 1, West Indies, 2, Yugoslavia, 1, others, 159

DEGREES AWARDED (1959) The following first and higher degrees were awarded:

*General education** arts/science, 88,359, fine arts, 10, home arts/home science, 228; music, 24, oriental studies, 39, social work, 137, theology, 11

*Professional education** agriculture, 2055, commerce, 12,091, education, 10,526, engineering and technology, 4614, law, 5794, library science, 20, medicine, 3527, veterinary science, 684

Doctorates (general and professional education*) 274

* 'General education' includes arts, science, oriental studies, fine arts, etc. 'Professional education' includes agriculture, commerce, education (teachers' training), engineering and technology, law, medicine, veterinary science, etc.

§ Provisional figures. Figures for Bombay, Calcutta, Madras, Mysore and Saugur universities relate to 1957-58

AGRA UNIVERSITY*

Founded 1927

Postal Address : Paliwal Park, Agra, Uttar Pradesh, India
Cables and Telegrams : Agra University, Agra, Uttar Pradesh
Telephone : Agra 2748

VISITOR—THE STATE GOVERNMENT OF UTTAR PRADESH
CHANCELLOR—THE GOVERNOR OF UTTAR PRADESH
VICE-CHANCELLOR—P D GUPTA
REGISTRAR—R S. AGRAWAL, BCom
HON LIBRARIAN—R N SAKSENA, MA PhD DLitt

ADMINISTRATIVE AND OTHER STAFF

Dep Registrar T P Mital, BCom Asst Registrar (Confidential). K B Asthana, BA LLB. Asst Registrar (Exams) M. M Mehrotra, MA Asst Registrar (Accts) C. Sen, BA Asst. Registrar (Admin) S Lal, BA

UNIVERSITY INSTITUTIONS

AGRA, *Agra Univ Institute of Social Sciences* (tel. : 3267) MA (in sociol), MSW, MSc (Stats) Dir.—Prof R N Saksena, MA PhD DLitt. Prof. B. P. Adhikari, DSc, Asst. Profs. C. Prasad, MSW, R. Prasad, MSW, R N Srivastava, MA PhD, S K Srivastava, MA PhD, D S Chauhan, MA PhD, A S Mathur, MA, Y Singh, MA PhD, S Bahadur, MA; V K Sethi, MSc, J C. Gupta, MSc

AGRA, *K.M Institute of Hindi Studies and*

Linguistics, Agra Univ MA (in linguistics & comparative lit), MA (in Hindi, sp. alternative course with Indian linguistics and lit crafts), certs. of proficiency in mod Indian langs and foreign langs Dir.—Prof B N. Prasad, MA PhD Asst. Profs. G S Satyendra, MA PhD DLitt, V. V R Sarma, MOL, N. A Vyas, MA BT, R. G Harshe, DLitt, R. N Sahai, MA, A R Kelkar, PhD, J Parthasarathi, MA, V. D. Pandey, MA, D. S. Dwivedi, MLitt.

AFFILIATED COLLEGES

[MA, etc., after the name of a coll. means that courses are provided there for MA, etc]

AGRA, *Agra College* (tel. 100). MA, MSc, LL.M Hds of Depts. MATHS.—Principal M. Ray, DSc, FNI, PHYS.—A. Mookherji, DSc; ENGL.—B Prasad, MA DPhil *Alld*, HIST AND POL.—A. L. Srivastava, MA PhD *Luck*, DLitt *Luck & Agra*, ECON—R R Singh, MA PhD, PHILOS.—; HINDI—Pdt. J. N Tewari, MA Shastri, SANSK.—K C. Misra, MA Shastri; DRAWING AND PAINTING—R P Shukla, MA, CHEM.—A K Bhattacharya, DSc *Alld*, FRIC, BOT.—S Sinha, MSc *Luck*, PhD; ZOOL.—B C Mahendra, MSc *Alld*, DSc, MILIT SCI.—Capt H Raj, MA *Panaj*, LAW—K Prasad, MA LLB, STATS.—S. K Ray, MA MSc

AGRA, *Bahauant Rajput College* (tel. 111) MA, MSc; MCom; MSc(Ag), BT; MEd Principal—R. K. Singh, MA DEd *Haru*. Hds. of Depts. ENGL.—R. B. Sharma, MA PhD *Luck*, PHILOS.—Shoodan Singh, MA PhD, HIST. AND POL.—B N. Mehta, BT *Nag*, MA PhD, HINDI AND SANSK.—N D. Singh, DPhil *Alld*, MA, ODOG.—I P. Gupta, MA PhD; MATHS.—Sabal Singh, MA PhD, COMM.—T R Sharma, MCom *Calc.*, PhD *Luck*, MA, ECON.—R S Bhatia, MA PhD; PHYS.—R. N. Singh, PhD MSc, CHEM.—R. Singh, MSc PhD LT *Alld*, BOT.—B. Singh, PhD *Luck*, MSc; ZOOL.—R. D. Saxena, MSc PhD; AGRON.—Raghuraj Singh, MSc(Ag)

* Member of the Association of Universities of the British Commonwealth

PhD \ AGRIC. ECON—Roshan Singh, MSc(Ag), ANIMAL HUSB AND DAIRYING—S N Singh, MSc PhD, HORTIC.—S M Singh, MSc Ban, PhD, MILIT. SCI—G R Singh, MSc(Ag).

AGRA, *Engineering College*, Dayalbagh (tel 780) BSc(Engg) Hds of Depts ELECTR ENGIN—Principal B Das, BSc(Engg), MYTHS—P C Gaur, MSc LLB, MECH ENGIN—S R Singh, BSc(Engg).

AGRA, *Medical College* (tel 145) MB BS, MD, MS, DCH, DMRE, DO, diploma in anaesthesiol Hds of Depts PATHOL—Principal P N Wahi, MD, MRCP, FRCS, ANAT—P I. Shukla, MS, PHYSIOL—I Singh, MB BS PhD, BIOCHEM—M G Chakravarti, DIC, MSc PhD, FRIC, MED—K S Mathur, MD, MRCP, SURG—A N Razdan, MS, FRCS, OBSTET AND GYN&COL—N Kishore, MS, FACS, OPHTHALMOL—K N Mathur, MS DOMS, PHARMACOL—N K Chaudhau, MD PhD DTM&H, RADIO—P K Halder, MD DMRE DMRD DMRT

AGRA, *Radha Swami Educational Institute*, Dayalbagh (tel. 730) BSc, BCom, BT Hds of Depts TEACHING—Principal B. P. Johri, MSc LT, ECON—S P Madhosh, MA, COMM—S P Sahai Verma, MCom LLB, PHYS.—A. Bhargava, MSc, MATHS—P. M. Gupta, MA, CHEM—G. C Das Verma, MSc.

AGRA, *St John's College* (tel. 155) MA, MSc, MCom Undec genical control of the Church Missionary Soc Admits non-Christians Hds of Depts STATS—Principal P T Chandi, MA MSc Lond, ENGL—S P Sharma, MA Alld, PHILOS AND PSYCHOL—M A Hakim, MA Luck, MEd *George Prabhoo Coll*, HIST—Miss Mildred E Gibbs, Hona in Mod Hist *Oxon*, MA Manc, POL SCI—E A Daniel, MA, ECON—C T Gideon, MA LT Alld, GEOG—A R Tewari, MA Alig, MA PhD, PERSIAN AND URDU—M. U. Faridi, MA Alig, HINDI—H H N Tandon, MA Ban, PhD, MATHS—J C Chatuvedi, MA MSc PhD, CHEM—P I Ittyerah, BA Madh, PhD Camb & Agra, MSc, PHYS—K P Mathur, MSc, ZOOL—T Singh, DIC, MSc PhD Lond, MED, BOT—B L Gupta, MSc Alld, COMM—R S Dwivedi, BCom Alld, MA

AGRA, *Women's Training College*, Dayalbagh (tel 730) BA, BT, MEd Principal—S P Sukhna, MA TDip Hds of Depts HINDI—Mis Shaida Misra, MA BEd, HIST—Mrs Anand P Dass, MA BT (Sr Lectr), PSYCHOL. AND PHILOS—Mrs G P Sherry, Assoc Inst of Educn, Lond, MA BT, POL—N N Sharma, MA, ENGL—Miss P V Mehrotra, MA MEd, ECON—P Singh, MA, DRAWING AND PAINTING—S Kumari, MA

AJITMAL (ETAWAH), *Janta Agriculture College* BSc(Ag) Hds of Depts AGRON—U S Pathak, MSc(Ag), ANIMAL HUSBANDRY AND DAIRYING—G S Rajoria, MSc(Ag), ENTOMOL.—K M Singh, MSc(Ag), AGRIC ECON—V P Sharma, MSc.

ALIGARH, *Barahsen College* (tel 145). MA; MCom, LLB, BT Principal—M. C Mathur, MA Delhi, MSc Belf, PhD Hds. of Depts. ECON.—Vice-Principal M. Lal, MA Alld. & Agra, HINDI—S K Varshney, MA LLB, ENGL—N. P Gupta, MA, GEOG—H K Gupta, MA Alig, POL.—G P Srivastava, MA PhD Luck, LLB, COMM—S S Rathu, MA MCom LLB; LAW—D P Varshney, MA LLB Alld., HIST—Mrs K N Hasan, MA, SANSK—R Shastri, MA, PSYCHOL—J. G Tiwari, MA, MILIT SCI—A R Mathia, BA, SOCIOLOG—G K Nairan, MA, DRAWING AND PAINTING—G M Chaturvedi, LDUCN—R C Gupta, MA MEd

ALIGARH, *Dharam Sanjay College* (tel : 158). MA, MSc Hds of Depts PSYCHOL.—Principal V G Jhingan, MSc Luck, BEd Edm., ENGL—D M Gupta, MA BT; HIST—M S Jain, MA LLB, POL SCI—G K Gaharana, MA, ECON—S S Gupta, MA, SANSK—R S Jaitley, MA, GEOG—O N Kapoor, MA Alig, LLB BT Pany, MILIT SCI—R Nath, BA Pany, MATHS—U Chaitan, MSc LT, CHEM—S L Gaig, MSc, PHYS—R S Bhargava, MSc Alld, DRAWING—B L Razdana, BA, HINDI—M L Gaur, MA PhD, GEOG—R S Saxena, MSc, ZOOL—K L Khairbada, MSc, SOCIOLOG—R C Gupta, MA, BOT—S C Shciah, MSc

ALIGARH, *Tika Ram Kanya Mahavidyalaya* BA, Dipl in Music Principal—Mrs. Santi Sharma, MA MEd Hds of Depts ENGL—Miss Pushpa L Singhal, MA, HINDI—Miss Kamla Sharma, MA, HIST—Miss Urmila Dhaui, MA, MUSIC—Pdt N R Sharma, MA Sangat Prabhakar, POL SCI—Miss Kamla Bhasin, MA, DRAWING AND PAINTING—R L Seni, BA, PSYCHOL—Mrs Omvati Gupta, MA, ECON—Mrs Pushpa Lata, MA

ALLAHABAD, *Kulbhaskar Ashram Degree College* BSc(Ag) Principal—B Sahai, MSc Hd of Dept AGRIC ZOOL—U Shanker, MSc

ALMORA, *Almora Degree College* MA; BT. Hds of Depts. TEACHING—Principal A. D Pant, MA, HIST—U. C Pande, MA Alld, MA LT, POL SCI—D C Tewari, MA Alld, ECON.—C S Pandey, MA Alld; HINDI—T. Pandey, MA, ENGL.—A. D Pant, MA, GEOG—P. C Tewari, MA, SANSK—M D Pant, MA, LAW—M L Verma, BA LLB

AMROHA (MORADABAD), *J S Hindu College* BA Principal—J P Gupta, MA PhD. Hds of Depts HINDI—A C Agarwal, MA, POL SCI—V V Sharma, MA BT, ENGL—K Gopal, MA, SOCIOLOG—R L Raipuria, MA, ECON—J Sahai, MA

ATTARA (BANDA), *Attara Degree College* BA Principal—J P Singh, MA Hds of Depts SANSKRIT—S A Misra, MA, ECON—P S Saxena, MA, POL SCI—S N Saxena, MA; ENGL—L L Baiconis, MA

BAKHARWAR (ETAWAH), *Janta College*. BSc, BSc(Ag) Hds of Depts : Principal—P. N.

Saxena, MSc, CHEM.—A. C. Gupta; PHYS—S S Tiwari, MSc, ANIMAL HUSBANDRY AND DAIRYING—G C Banerji, MSc

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MODINAGAR (MEERUT), *Multan Mal Degree College*. BA, BSc; BCom. Hds. of Depts. CHEM—Principal G. D. Tuli, MSc PhD; COMM.—R. N. Goyal, MA MCom LLLB, ECON.—O. P. Gupta, MA, ENGL.—D. C. Sharma, MA, HINDI—N. P. Bajpai, MA, HIST.—J. N. Rastogi, MA; MATHS.—T. R. Prabhakar, MA Ban; PHYS.—M. L. Pandya, MSc; POL. SCI.—S. P. Goyal, MA LLLB; ZOOL.—O. P. Saxena, MSc; BOT.—B. R. Vashist, MSc; STATS.—K. Sen, MA.

MORADABAD, *B.A.K. Pathshala College*. BA. Principal—Bimla D. Gupta, MA BT. Hds. of Depts. ENGL.—Sarda Menon, MA, EDUCN.—Manorma Dixit, MA BT, ECON.—Pushpa Sajnani, MA.

MORADABAD, *Gohaldas Hindu Girls' College*. BA. Hds. of Depts.: HINDI—Offg. Principal—

G Agrawal, MA PhD; ECON—Dolly Fanthom, MA LT, POL.—Mrs. Shanti D Bala, MA *Allid*; PSYCHOL.—Mrs. Prakash Atreya, MA MEd; MATHS.—, SANSK.—Miss Sharda Swarup, MA, MUSIC—Miss Madhuri Ghoshal; HISR.—Miss Seva Sood, MA

MORADABAD, *Hindu Degree College* MSc, MCom, BT Principal—K D Agrawal, MA LLB BT Hds. of Depts TEACHING—L S Meitrya, MA BT, COMM—N K Jain, MCom LLB, MATHS—B B S Bansal, MSc, PHYS—D Dayal, MSc *Allid*, CHEM—V Prakash, MSc *Pany*, ENGL—D V Shamma, MA *Luck*, BOT—A P Shamsheery, MSc, ZOOL—L D Chaturvedi, MSc, I S Maitha, MA BT

MORADABAD, *K G K. College* (tel. 193) MA, LLB Hds of Depts ENGL—Principal R N Mehrotra, MA, ECON—K L Widhani, MA *Pany*, SOCIOL—P N Tandon, MA, PHILOS—J P Atreya, MA, HIST—R C Verma, MA DPhil *Allid*, POLIT—B. S Verma, MA, HINDI—N Pratap, MA *Allid*, SANSK—G S Trigunayati, MA PhD, GEOG—R M Mathur, MA, MILIT. SCI.—Lt A Keshab, MA, LAW—K Sahai, BSc LLB *Allid*, PSYCHOL—R K Tandon, MA PhD

MUZAFFARNAGAR, *D.A.V. College* BSc, LLB, MA, MSc Hds of Depts PHYS—Principal S Prasad, MSc *Allid*, CHEM—S S Khanna, MSc DPhil; MATHS.—B Nand, MSc, ZOOL—U P Agrawal, MSc PhD, BOT—M. P Kaushik, MSc, LAW—S Deo, BA LLB, ECON—S Ram, MA MCom

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MUZAFFARNAGAR, *S D College* (tel 173). MA, MCom Principal—D. Singh, MA LLB *Allid*. Hds. of Depts. ENGL.—K C Bhatnagar, MA PhD, MATHS.—T Raj, MSc PhD, SANSK.—K L. Sharma, BA *Pany*, MA *Cole*, Shastri *Ban.*, HIST—O P. Agarwal, MA LLB, POL. SCI.—S K. Sinha, MA *Luck*, HINDI—V N Misra, MA DPhil *Allid*; COMM.—R C. Agrawal, MCom PhD, DRAWING AND PAINTING—B S Agarwal, BA, GEOG.—S L. Duggal, MA, ECON.—R L Goyal, MA PhD

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COMM—R P Yadav, MCom, ECON—K N Trivari, MA; GEOG—S S. Awasthi, MA

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GENERAL INFORMATION

Act VIII of 1926 of the United Provinces legislature provided for the establishment of a univ 'for the purpose of affiliating the colleges associated with the Univ of Allahabad' so as to set the latter free to function as a unitary, teaching and residential institution. It empowered Agra Univ to affiliate colls in Uttar Pradesh, Madhya Bharat, Vindhya Pradesh, Ajmer and Bhopal, except within the limits of the univs of Allahabad and Lucknow. The act as amended has confined the univ's jurisdiction to Uttar Pradesh. To supplement the work in affiliated colls the univ may institute teaching posts at selected centres. There is an Inst of Hindi Studies & Linguistics and an Inst of Soc Scis (see below).

Five categories of persons are eligible, subject to prescribed conditions, for degrees and other academic distinctions: (a) candidates who pass the univ's exams after pursuing an approved course at an affiliated coll; (b) teachers who pass the univ's exams; (c) inspecting officers in the dept of educn who pass the univ's exams; (d) res workers; (e) women who have carried on private study. Lectures and instrcn may be provided by the univ. for, and dipla. may be granted to, persons other than students of an affiliated coll.

CONSTITUTION The supreme governing body of the univ is the senate, the other principal authorities being the executive council, academic council and facs. The vice-chancellor is a whole-time salaried officer appointed by the chancellor from amongst persons recommended by the executive council. He is the principal executive and academic officer.

INCOME (1959-60) Total income, Rs 2,761,852 (incl Rs 1,892,652 from exam fees, Rs 1866 as contributions from state colls; Rs 171,035 govt grant)

FACULTIES AND DEANS. *Agric*, Dr. U. S. Sharga, *arts*, S. P. Sinha, *comm*, N. K. Chedda; *engin*, B. D. Satsangi; *law*, S. Mal, *med*, Dr. K. S. Mathur; *sci*, Dr. M. Ray; *technol*, E. D. Daruwala, *vet. sci. & animal husb*, Dr. C. M. Singh.

LIBRARIES 50,260 vols and periodicals in univ res library. In addn, each of the affiliated colls is required to maintain a lib of its own.

INSTITUTE OF HINDI STUDIES Offers instrcn for MA in linguistics & comparative lit., MA in sp. Hindi, cert of proficiency in foreign langs, in Hindi (for those whose mother-tongue is not Hindi) and in mod Indian langs. other than

Hindi (for those whose mother-tongue is Hindi).
See also p 428.

INSTITUTE OF SOCIAL SCIENCES. Offers instruction for MA in sociol, MSc in statistics and MSW. See also p 428

ADMISSION Students are not eligible for admission to a degree course unless they have passed the inter exam. of the bd of high sch and inter. educn of Uttar Pradesh, or of an Indian univ incorporated by law, or an equivalent exam. No inter or pre-univ courses are given in the affiliated colls.

FIRST DEGREES. BA, BSc, BSc(Ag), BSc(Tech), BSc(Pharm), 2 yrs, BCom, 3 yrs (2 yrs for those who have passed inter exam with comm. subjs), BVSc&AH, BSc(Engg), 4 yrs; MB BS, 5 yrs, BSc(ChemEngg), BSc(Text), 4 yrs

HIGHER DEGREES. BT, 1 yr., LLB, MA, MSc, MSc(Ag), MCom, MVSc, MSW, 2 yrs, LL.M, 1 yr. course, exam taken 2 yrs. after LLB, PhD (in arts, sci., comm., agric, med) by thesis, 2 yrs after master's degree; DLitt (in arts, comm), DSc (in sci, agric), by thesis, open to PhDs or masters of arts, comm, sci, agric., of at least 5 yrs' standing, MD, MS, by thesis and

exam (written & clin.), open to holder of MB BS of the univ after 3 yrs' practice

DIPLOMAS Music, 1 yr Postgrad anæsthesiol, child health, embryol, med radiol & electrol, ophthalmic med & surg, orthopaedics, tuberculosis, each 1 yr's course in addn to 1 yr's internship in a recog hosp

ACADEMIC YEAR. July to April 2 terms Term dates (approx). July 8 to Dec. 21, Jan 2 to April 26

USUAL LANGUAGES OF INSTRUCTION. English and Hindi.

SCHOLARSHIPS A no. of 1es and postgrad scholps are awarded

NATIONAL CADET CORPS. Many affiliated colls have N C C. units.

PUBLICATIONS *Calendar* (usually once in 3 yrs), Rs 8, *Handbook* (annually), Rs 5, *Research Journal* (twice yearly), Rs 20 for sci. and Rs. 15 for letters yearly, or on exchange basis The univ. also publishes text-books

UNIVERSITY PRESS Establd in 1951 in univ premises

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	35,165	10,784
Women	4,612	5,132
Total	39,777	15,916

Distribution by Faculties Agric, 1816, arts, 33,798, comm, 4924; educn, 1822, engin, 309; law, 2935; med, 373, sci, 9103; technol., 60; vet sci., 553. Total 55,693

Included in the figures above are —

Intermediate or Pre-University students, nil

Postgraduate students, 13,572

New admissions, 32,334

Students from other countries, 23 (Country from which largest number came Nepal, 17)

DEGREES AWARDED (1959-60) Agric BSc (Ag), 335, MSc(Ag), 123. Arts: BA, 5083, MA, 3644 Comm: BCom, 751, MCom, 406 Educn. BT, 1319, MEd, 14. Engin. BSc (Engg), 65 Law LLB, 510 Med MB BS, 73. Sci. BSc, 1642; MSc, 409. Vet sci BVSc&AH, 74; MVSc&AH, 38

DIPLOMAS AWARDED (1959-60). DCH, 7, DOMS, 2, DMRE, 1

ALIGARH MUSLIM UNIVERSITY

Founded 1920

Postal Address : Aligarh, Uttar Pradesh, India

Cables and Telegrams : Muslim University, Aligarh, Uttar Pradesh

Telephone : Aligarh 73

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CHIEF RECTOR—H E THE GOVERNOR OF UTTAR PRADESH

CHANCELLOR—HIS HOLINESS MULLA S T SAIFUDDIN SAHIB

PRO-CHANCELLOR—NAWAB SAIDUL MULK BAHADUR H M A SAID KHAN SAHIB OF CHATTARI, LLD

VICE-CHANCELLOR—COL B H ZAIDI, BA Camb.

PRO-VICE-CHANCELLOR—YUSUF HUSAIN KHAN, DLitt Paris

TREASURER—HAJI OBAIDUR RAHMAN KHAN SAHIB SHERWANI

REGISTRAR—Y D KHAN

LIBRARIAN—S BASHIRUDDIN, MA, FLA

TEACHING STAFF

[†=Part-Time, *=Chairman of Dept, §=Women's Coll]

Arabic and Islamic Studies

Aleem, A., PhD *Berl.*, BA
Ahmad, S. M., MA DLitt DPhil *Oxon*
Mustafa, H G, MA
Sherwani, R R K, MA *Pan*
Ali, A, MA DPhil *Alid*
Ansari, M M, Alama-yahat *Al-Azhar*

*Prof
Reader
Lectr
Lectr
Lectr
Lectr.

Qureshi, M M, PhD *Lousana*, MSc
Rahman, W, MSc PhD
Zaidi, A. A., MSc
Abraham, N A, MSc
Siddiqi, M S, MSc
Osman, M, MSc PhD
Surti, A, MSc
Gupta, G S, MSc PhD
Ahmad, M S, MSc
Beg, M A, MSc PhD *Alid*
Varshney, I P, DSc *Paris*, MSc PhD
Ahmad, N, MSc
Khan, N H, MSc
Nasim, Z, MSc
Minhaj, Miss Fatima, MSc PhD
Pal, Miss Shakti R, MSc *Pan*

Lectr
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Lectr.
Lectr.
Lectr.

Botany

Chowdhury, K A, MS *Syn*, DSc *Edn*,
FNI
Khan, R, MSc PhD *Delhi*
Khan, A. M., PhD *Mun*, MSc
Husain, A, MSc *Alid*
Ansari, M S, MSc *Luck*
Abbas, A, MSc *Alid*
Farooq, M, MSc
Khan, M R, MSc
Haq, O, MSc
Mahmud, K, MSc
Siddiqi, M. A., PhD *Wales*, MSc
Saxena, S. K., MSc
Naqvi, Mis. Zubaida, MSc
Ahmad, S, MSc

*Prof
Reader
Reader
Lectr
(on leave) Lectr
(on leave) Lectr
Lectr
(on leave) Lectr
(on leave) Lectr
Lectr
Temp Lectr
Temp Lectr
Lectr
Lectr.

Commerce

Farooque, Q H, MA BCom *Luck*,
MSc(Econ) *Lond*
Rizvi, F H, MA MCom *Agra*, BCom *Luck*
Ismail, M, MA LLB
Hafizuddin, M, MA MCom *Agra*
Farooq, I H, MA BCom LLB
Mohsin, M, MA MCom *Agra*
Samuiddin, MA MCom
Rahman, H, MA BCom LLB
Byli, S M, MA BCom LLB

*Reader, Actg Hd of Dept
Lectr.
Lectr.
Lectr.
Lectr.
Lectr.
Lectr.
Temp. Lectr

Chemistry

Kidwai, A R, BSc *Jama*, MS *Ill*,
PhD *Corn*
(Biochem) Reader, Actg Hd of Dept
Husain, I, MSc PhD *Manc*
Malik, W, MSc PhD *Agra*
Rahman, S M F, MSc
Hasan, H, MSc PhD
Rahman, A, DrRerNat *Tubingen*,
MSc *Luck*, PhD

Reader
Reader
Lectr
Lectr
(on leave) Lectr.

Economics

Khan, M S, AM *Mish*, MA
Salm, A, MSc(Econ) *Lond*, MA

Reader, Actg. Hd of Dept
Reader

Khan, A. A., MA LLB
 Ali, A., MA LLB
 Gaur, R. C., MA

Lectr
 Lectr.
 Temp. Lectr.

Physics

Gill, P. S., MS S *Calif*, PhD *Chic*, FNI *P1 of
 Mitra, A. N., MSc PhD *Delhi & Corn* Reader
 Venkateswarlu, P., DSc *Ban.* Reader
 Hans, H. S., MSc *Ban*, PhD Reader
 Ahmad, R., MSc PhD *Calc*, MSE

Prin.

Haq, E., MSc Lectr.
 Ali, S. A., MSc Lectr.

Islamic Studies, see Arabic**Law**

Rahman, H., SJD *Penn*, BA LLB *Reader
 Dayal, S., BSc LL.M. *Luck* Lectr
 Rashiduzzafar, BA LLB *Luck*, LL.M. (on leave) Lectr
 Hasan, M., BCom LL.M. Lectr
 Khan, G. A., MCom LLB Lectr
 Khan, M. R. A., MA LLB Temp Lectr
 Shahid, Z. M., BSc LLB Temp Lectr

Mathematics and Statistics

Shah, S. M., MA PhD DLatt *Lond* *Prof.
 Siddiqui, J. A., MA DPhil *Alld.*, Reader
 DSc *Paris* Reader
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 Rizvi, A. K., MA Lectr.
 Omai, S., MSc Lectr.
 Husain, A., MA Lectr.
 Kokan, A. R., MA *Madr* Lectr.
 Khan, N. A., MA PhD (on leave) Lectr
 Ahmad, M., MA PhD Lectr
 Ramanujan, DSc *Madr*. Lectr.
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 Kulshartre, P. K., MA Lectr.
 Rizvi, M. H., MSc (on leave) Lectr
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 Khanna, Miss Guje, MA DPhil *Alld* §Lectr
 Neeyamat, Z. M., MSc Lectr
 Ali, S. M., MA Lectr
 Islam, Z. Lectr
 Zaki, M., MSc Lectr

Khan, M. A. B., MSc (on leave) Lectr
 Mohammad, F., MSc Lectr
 Khan, A. A., MSc Lectr
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 Saxena, R. P., MSc PhD Lectr
 Shafi, M., MSc Lectr
 Singh, M. P., MSc (on leave) Lectr
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 Khan, S. A., MSc Temp Lectr
 Tyagi, R. K., MSc Temp Lectr
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Political Science

Sultan, C. M., MA *Luck* *Prof.
 Ali, S. N., MA LLB Reader
 Haqqi, A. H., BA *Luck*, MA PhD LLB Reader
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 Matnuzzaman, M., MA (on leave) Lectr
 Bulgrami, S. A. H., MA *Luck*, PhD (on leave) Lectr
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 Beg, A. S., MA LLB Lectr
 Mulhtar, Miss Akhtar, MA (on leave) §Lectr
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 Sharma, A. P., MA Lectr
 Khan, Miss Kulsum H. A., MA §Lectr
 Samuddin, Miss Abida, MA §Lectr

Sanskrit, see Hindi and Sanskrit**Statistics, see Maths. and Stats****Urdu**

Ahmad, N., PhD DLatt *Luck*, Dipl *Tehsil* *Reader
 Israeli, S., MA LLB BT Lectr
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 Alam, S. M., MSc PhD *Lond*. Reader

Qasim, Z., MSc PhD Lond., MSc Alg., PhD Wales	Reader	Ansari, I. H., MB BS Bom., BSc	Reader
Aziz, S. A., DIC, MSc PhD Lond	Lectr	Hasib, A., DIMS Luck, MSc	Reader
Farooqi, M. M., MSc	Lectr	Kabiruddin, M.	Reader
Khan, N. H., MSc PhD Mass	(on leave) Lectr.	Rahman, M. S., MB BS Bom.	Lectr.
Ahmed, M., MSc	Lectr	Lal, S. B., MB BS	Lectr.
Siddiqi, A. H., MSc PhD	(on leave) Lectr	Hasan, H. N. A	Lectr.
Adhami, O. M., MSc	Lectr	Khan, M. Z.	Lectr.
Farooqi, H. U., MSc	Temp Lectr	Khan, H. Z. A	Lectr
Siddiqi, W. A., MSc	(on leave) Lectr	Husain, I. K., BUTS	Lectr
Hafeez, M., MSc	Lectr	Khan, H. S. R., BUMS	Lectr
Agarwala, M. M., MSc	Temp Lectr.	Siddiqi, A. M., MSc	(on leave) Lectr
Riaz, Miss Nuzhat, MSc	§Lectr	Taiyab, H. M., BUMS	Lectr
Subramaniam, Miss Sharda, MSc	§Lectr	Ansari, F., BUTS	Lectr
Banerjee, Miss Sabita, MSc	§Lectr	Siddiqi, M. W., MSc	Lectr
		Kidwai, H. S. M.	Demr
		Haq, W	Science Teacher
		Khan, N	Science Teacher
		Jafri, A. H., BUMS	Demr
		Ahmad, K., BIMS	Demr

MEDICINE

Latif, H. A., Shifa-ul-Mulk Luck *Prof.

Ophthalmology

Shukla, B. R., BSc MB BS Luck.	*Prof
Hameed, S., MB BS Luck. (Pathology)	Reader
Agarwala, K. C., MD (Bacteriol)	Reader
Harnida, Miss Suduzazafar, MB MS Luck,	(Ophthalmol.) Reader
Dayal, Y., MB BS Luck, DOMS	Lectr
Grover, A. D., MB MS	(Ophthalmol) Sr. Res. Asst.
Fazal, A., MSc	Lectr.
Ahmad, E., MB BS	Ophthalmic Registrar
Suri, P. R., MD (Med Ophthalmol)	Lectr.
Paul, S. O., MB BS	Lectr

Unani Tib and Surgery

Latif, H. A., Shifa-ul-Mulk Luck. *Prof

THEOLOGY

Shia Theology

Naqvi, M. A. N	*Reader
Kamoonpun, M. H., PhD Al Ashar	(Nazim Theol) Lectr
Abbas Sahib, M. S. A. Z	Teacher
Jafri, Miss Razia, MTh	§Teacher

Sunni Theology

Akbarabadi, M. S. A., MA	*Reader
Bilgrami, Q. M. A.	(Nazim Theol) Lectr
Hafeezullah Sahib, M. M	Lectr
Begum, Miss Raufa, MA	§Lectr

COLLEGE OF ENGINEERING AND TECHNOLOGY

Applied Science

Siddiqi, O. A., MSc	Reader
Osmani, R. A., MSc	Lectr
Naqvi, T. H., MSc PhD	Lectr
Ahmad, N., MSc	(Maths) Lectr
Singhal, J. P., MSc	(Sci) Lectr
Caahyap, S. M., MSc	Lectr.
Naseem, T., MSc	Demr.
Ahmad, N., MSc	(on leave) Demr
1 Drawing Teacher	

Civil Engineering

Chakko, K. C., PhD	*Prof.
Ansari, M. Y., MASC Tor, BSc(Engg)	Reader
Barri, S. J., BSc(Engg)	Reader
Ahmad, S. N., PhD Lond	Reader
Sulaiman, K. M., BSc(Engg)	(on leave) Lectr.
Bahauddin, K. M., MScTech Manc.,	BSc(Engg)
Imamuddin, K., BSc(Engg)	(on leave) Lectr
Siddiqi, M. K., BSc(Engg)	Lectr
Ali, R., BE	Lectr.
Reddy, G. V. R., BE	Lectr.
Zafar, R., BSc	Lectr

Reddy, S. V. B., BTech	Lectr
Hasan, M., BSc(Engg)	Lectr
Qasim, A., BSc(Engg)	Lectr.
Kazmi, J. A., Dip Civil Engin Roor	Demr
Siddiqi, S. H	Demr.
Alvi, S. H., BSc	Demr

Electrical Engineering

Saha, N. C., BSc Glas, MSc PhD Manc.	*Prof.
Bhattacharjee, S. C., BSc Calc.,	BSc(Engg) Ban
Siddiqi, F. A., BSc(Engg)	Reader
Jalaluddin, BSc(Engg)	Lectr
Bansal, V. S., BSc	Lectr
Upreti, G. C., MSc	Lectr
Amirani, M., BSc(Engg)	Lectr
Gupta, R. K., BSc(Engg)	Lectr
Mahboob, G., BA	Lectr
Rasheeduddin, DipElectrEngin	Demr
Gupta, H. C., DipEng Calc	Demr
Khan, R. A	Demr
Goyal, Y. P.	Demr.

Mechanical Engineering

Sen, S. B	*Prof
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Habibullah, A H M, BA BSc <i>Madr</i> , BSME <i>Utah</i> (on leave)	Reader	Hasan, Z., BSc(Engg)	Lectr.
Husain, A, BSc BSc(Engg)	Reader	Yahya, S M, BSc(Engg)	Lectr.
Munn, J A, BSc(Engg)	Reader	Hasnain, S M A, BSc(Engg)	Lectr.
Mustajabuddin, BSc(Engg)	Lectr	Rao, Y V N, BSc(Engg)	Lectr.
Bhardwaj, B K, BSc(Engg)	Lectr	Singh, R	Demr
Mohsin, S M, BSc(Engg)	Lectr	De Cruze, W	Demr
Parnik, K. A. R., BE	Lectr.	Mukerjee, D. C, MEE <i>Roor</i> .	Demr
		Ali S M	Demr

UNIVERSITY POLYTECHNIC

Applied Science		Salam, S A., DiplCivilEngn	Demr.
Huda, N, MSc <i>Dacca</i>	Lectr	Alam, S. M. Z., DiplCivilEngn	Demr.
Salam, A., MSc	Lectr.	Electrical Engineering	
Akhtar, M., MSc	Lectr.	Alhashmi, H A, BSc(Engg)	Lectr
Ali, M. S., MSc	Instr.	Siddiqi, M U., BSc(Engg)	Lectr
Husain, S M R	Instr	Mathui, S G P	(on leave) Lectr.
Khan, A W, MSc	Demr.	Gupta, R K, BSc(Engg)	Lectr.
Farooque, I H, MSc	(on leave) Demr.	Farhatullah, BE <i>Dellu</i>	Lectr
Grover, R C, MSc	Demr.	Zaidi, H. H., BSc(Engg)	Lectr
Wasi, M	Demr	Ahmad, Q., DiplElectrEngn	Demr
		Ozair, M, DiplElectrEngn	Demr
		Bhatia, A S, DiplElectrEngn	Demr
Civil Engineering		Mechanical Engineering	
Hasan, A A Z, BSc(Engg)	Reader	Hasan, S N, BSc(Engg)	Lectr.
Hasan, Q N., BSc(Engg)	Lectr	Khan, L S R, BSc(Engg)	Lectr.
Husain, S M, BSc(Engg)	Lectr	Khan, S R, BSc(Engg)	Lectr.
Ahmad, S, BSc(Engg)	Lectr.	Hasan, S., BSc(Engg)	Lectr.
Nabi, S, BSc(Engg)	Lectr.	Zaman, B., BSc(Engg)	Lectr
Naqvi, N R, BSc(Engg)	Lectr	Mustahsin, M, DiplElectr&MechEngn	Demr
Khalid, F H K, MA	Demr.		
Yadav, J. S, DiplCivilEngn	Demr.		

ADMINISTRATIVE AND OTHER STAFF

ADMINISTRATIVE STAFF Hon Asst Treasurer
A Rauf, BA LLB Dep Registrar Capt II
Hasan, MSc PhD Asst Registrar (Academic)
S S Ahmad, BSc Asst Registrar (Executive)
J Rahman, BA Asst Registrar (Exams) S
Chakrabarti, MA Bursar

Provosts S S Hall, Dr H Rahman,
V M Hall, Dr I Husain; Aftab Hall, Prof A A
Suroor, Sulaiman Hall, Dr M Shafi, Abdullah
Hall, Mrs M J Haider, Non-resident Students
Centre, Prof H L Shaima

PROCTOR Prof A Basir Khan

PRINCIPALS AND DIRECTIONS OF INSTITUTIONS
Women's Coll, Mrs Mumtaz J Haider, Tibbiya
Coll, Prof H A Latif, Coll of Engineering
and Technology, Z Ansari, Univ Polytechnic,
S A Abbas, Inst of Islamic Studies, Prof A
Aleem, Inst of Ophthalmology, Dr B R
Shukla

MEDICAL OFFICER Capt H Rahman

ADVISER TO FOREIGN STUDENTS Prof A A
Suroor

GENERAL INFORMATION

Founded in 1877 by the late Sir Syed Ahmad
Khan as the Mohammedan Anglo-Oriental Coll,
with the object of imparting to the Muslim youth
a modern scientific educn, the univ received its
first charter in 1920. By the Act of 1951 the

constitution of the univ was amended to bring it
into conformity with recommendations of the
univ commission and the constitution of the
Indian republic. The univ, a teaching and
residential instn., brings together students and

scholars from different parts of the country with different religious, linguistic and cultural backgrounds

CONSTITUTION. The main authorities of the univ are the court, executive council, academic council, facs. and depts of studies. All teaching staff in depts. are members of the respective depts of studies. On the fac are represented all profs in the fac. and 1 reader and 1 lectr from each dept of studies assigned to it, there are also sr. teachers and learned men from outside the univ. The academic council consists of all hds of depts of studies and a few other members. These bodies deal with the academic side of the univ. The executive council, on which sr. members of the teaching staff are represented, deals with the executive side. The court is a larger body containing reps of interests outside the univ. It meets once or twice a yr and is the supreme governing body of the univ.

LIBRARIES Central library 103,068 vols. Deptl. librangs philo., 1200 vols, maths, 3000, Engl., 2000, geog., 3000; econ., 2000; phys., 3000, chem., 3000, bot., 2500, zool., 2000; hist., 1900, educn., 3000, comm., 700, milit. sci., 100, Persian, 550; Arabic, 450, Urdu, 2000, Sansk., 500, engin., 4000

FACULTIES AND DEANS Arts, Prof. M. Umaruddin (philos. & psychol.), comm., Q. H. Farooquee, engin. & technol., Z. Ansari, law, Dr. H. Rahman, med., Prof. H. A. Latif (Unani Tibb), sci., Prof. S. M. T. Rizvi, theol., M. S. A. Akbarabadi

MEDIUM OF INSTRUCTION. English.

PRE-UNIVERSITY COURSES in arts, comm., sci. extend over 1 yr after high sch. or matric. exam. of an Indian univ.

FIRST DEGREES 3 yrs after pre-univ course—BA, BSc, BCom. (With the introd. of the pre-univ. & 3-yr degree courses, the BA hons and BSc hons. courses have been discontd.) 5 yrs. after pre-univ course—BSc(Engg) (civil, electr., mech.), 5 yrs after high sch.—BUMS (bachelor in Unani med. and surg.).

HIGHER DEGREES 1 yr after BA, BSc, BCom—BLib 1 yr. after BEd—MED. 2 yrs after approved 1st degree—MA, MSc, MCom, LLB, BTh. 2 yrs after approved master's degree—PhD by res. 2 yrs after LLB—LLM 1 yr after BTh—MTh.

Women students are admitted to the same classes as men for MA and MSc in all subs. and for BEd and MED as well as to the pre-univ. and BA, BSc classes held in the Women's Coll.

DIPLOMAS Stats (1 yr after pre-univ course), engin. (civil, electr., mech.) (3 yrs after high sch. course) Postgrad. 1 yr—ophthalmic med. &

surg., bus. admin., steno-typing, draughtsman-ship, 2 yrs.—foreign affairs, theol.; 1 yr—proficiency in Arabic, Persian, German, French, Russian, Turkish, Malayalam or Telugu.

CERTIFICATES Library sci. (4 mos), proficiency in Arabic, Persian, German, French, Russian, Turkish, Malayalam or Telugu (2 yrs)

PRIVATE CANDIDATES. Only women & teachers may be permitted to appear as private candidates at the following exams. pre-univ., BA, BCom, BSc, MA, MCom, MSc (in maths., psychol. and geog. only), BTh, MTh and LLB (for women only).

FEES Tuition. pre-univ. (arts, sci., comm.), Rs. 9 p m.; BA, BSc, BTh, BEd or BCom, Rs. 12 p m.; MA, MSc, LLB, MTh or MED, Rs. 15 p m.; MA & LLB (combined), Rs. 22 p m.; PhD (arts or sci.), Rs. 20 p m., BSc(Engg), Rs. 22.50 p m. for 1st & 2nd yrs & Rs. 25 p m. for 3rd & 4th yrs, DiplEngg, Rs. 10 p m., BUMS (Tibbia), Rs. 5 p m., dipl. in ophthalmol., Rs. 25 p m., dipl. in foreign affairs, Rs. 50 p a. No tuition fee in fac. of theol.

Exam. high sch., Rs. 20, pre-univ. Pt. I, Rs. 5, pre-univ. Pt. II, Rs. 30, BA, or BSc Pt. I (one subj.), Rs. 4; BA Pt. I, or BSc Pt. I (more than one subj.), Rs. 7, BA, or BSc Pt. II, Rs. 40; BCom (previous), Rs. 20, BCom (final), Rs. 25, MA (previous) or MSc (previous), Rs. 25, MA (final) or MSc (final), Rs. 35, LLB (previous), Rs. 25, LLB (final), Rs. 40, LLM, Rs. 150, BEd, Rs. 25, MED, Rs. 35, PhD or LLD, Rs. 100, BSc(Engg) I & II Yr., Rs. 25, BSc(Engg) III Yr., Rs. 35, Dipl(Engg) I Yr., Rs. 15, Dipl(Engg) II Yr., Rs. 20, Dipl(Engg) III Yr., Rs. 25; BUMS (Tibbia) I professional, Rs. 10, II professional, Rs. 15, III professional, Rs. 20, IV professional, Rs. 20; dipl. in ophthalmol., Rs. 100, dipl. in foreign affairs, Rs. 20, dipl. in foreign affairs (proficiency test), Rs. 10

ACADEMIC YEAR July–April; 3 terms. mid-July–beginning of Oct., mid-Oct.–end Dec., early Jan.–end April.

RESIDENCE A feature of the univ is its predominantly residential character. Hostels are grouped together into halls of residence each under a provost. Total residential accomm., 5000 approx. There are 4 halls for men and 1 for women. Sir Syed Hall, Vigarul Mulk Hall, Aftab Hall, Sulaiman Hall, Abdulhal Hall (women only).

Non-resident students centre 25 per cent of the total no. of students are admitted as day scholars under the admin. control of the provost of the centre. For provosts, see 'Admin. and Other Staff', above.

PUBLICATIONS. Calendar (quinquennial, free), Prospectus (annual), Univ. Magazine (English and Urdu); MU Gazette.

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	4590	—
Women	317	—
Total	4907	—

Distribution by Faculties *Arts*, 1251, *comm*, 204, *engin*, 1153, *law*, 304, *med*, 186, *sci*, 1461, *theol*, 31, *women's coll*, 317 Total 4907

Included in the figures above are —

P1c-University students, 371

Postgraduate students, 698

Students from other countries, 62

DEGREES AWARDED (1960) *Arts* BA (pass), 312, BA (hons.), 12; MA, 283, BLib, 17
Comm BCom, 44; MCom, 21. *Educn* . BEd, 82, MEd, 14 *Engin* BSc(Engg), 77 *Law* LLB, 136 *Med* BUMS, 28 *Sci* BSc (pass), 206, BSc (hons.), 3, MSc, 101 *Theol* . BTh, 2, MTh, 4 PhD (all facs) 18

DIPLOMAS AWARDED (1960) *Engin*, 42, foreign affairs, 3, ophthalmic med. & surg, 8, dipl in bus admin, 30

UNIVERSITY OF ALLAHABAD*

Founded 1887

Postal Address . Allahabad 2, Uttar Pradesh, India

Cables and Telegrams : University, Allahabad

Telephone . Allahabad 2219

CHANCELLOR—B. RAMAKRISHNA RAO, BA LL.D.

VICE-CHANCELLOR—P. K. KAUL, BA LL.B.

TREASURER—K. L. MISRA, MA LL.B.

REGISTRAR—O. P. GUPTA, MSc LL.B.

PROCTOR—R. B. TEWARI, BA LL.M. JSD Yale

LIBRARIAN—A. B. LAL, MA

TEACHING STAFF

Ancient History, Culture and Archæology		Fine Arts	
Sharma, G. R., MA 7 Asst. Profs.	Offg. Prof.	Kochak, U. S., MSc 1 Asst. Prof., 8 Teachers	Asst. Prof., Hd
Arabic and Persian		French and German	
Hasan, S., MA PhD Lond. 5 Asst. Profs	Prof.	Junius, M. M. Mitra, A. K., BA DU Paris	(German) Asst. Prof. Asst. Prof.
Botany		Geography	
Tandon, R. N., MSc PhD Lond 12 Asst. Profs	Prof.	Khan, M. N., MA DPhil 5 Asst. Profs.	Offg. Prof.
Chemistry		Hindi	
Ghosh, S., DSc 21 Asst. Profs	Prof.	Varma, R. K., MA PhD 16 Asst. Profs	Prof.
Chinese		History, see also Anc. Hist.	
Kuang, C. H., MA PhD Delhi	Asst. Prof.	Saksena, B. P., MA PhD Lond 7 Asst. Profs.	Prof.
Commerce		Home Science	
Agarwala, A. N., MA BCom DLitt 14 Asst. Profs	Prof.	Vyas, K. D., BSc MB BS 2 Asst. Profs.	Asst. Prof., Hd
Economics		Law	
Mehra, J. K., MA 15 Asst. Profs	Prof.	Tripathi, P. K., JSD Col., LL.M. Tewari, R. B., JSD Yale, BA LL.M.	Prof. Offg. Prof.
Education		Mathematics	
Adaval, S. B., MA MED DPhil 7 Asst. Profs.	Asst. Prof., Hd	Chaudhri, R. N., MA Camb 13 Asst. Profs	Offg. Prof.
English		Military Science	
Mehrotra, K. K., MA BLitt Oxon 26 Asst. Profs	Prof.	Khanna, D. N., BA LL.B. 3 Asst. Profs	Asst. Prof., Hd

* Member of the Association of Universities of the British Commonwealth

Philosophy		Russian	
Kaul, R. N., MA BLitt Oxon.	Prof	Sen-Gupta, S. C., MSc	Asst. Prof.
9 Asst. Profs.			
Physics		Sanskrit	
	Prof	Chaturvedi, S. P., MA	Prof
17 Asst. Profs.		9 Asst. Profs.	
Physics, Applied		Urdu	
Ghosh, S. N., DSc	Prof	Nascei, Mrs. F. F., MA DLitt	Offg. Prof
3 Asst. Profs.		5 Asst. Profs.	
Political Science		Zoology	
Lal, A. B., MA	Prof.	Srivastava, M. D. L., DSc	Prof
12 Asst. Profs.		11 Asst. Profs.	

ADMINISTRATIVE AND OTHER STAFF

Accounts Officer M. S. Negi, BSc Asst Registrar (Admin.) I. D. Caleb, MSc DPhil LT (on leave), H. Williams, MA (offg.) Asst Registrar (Accounts) K. P. Mohuley, MA BT Offg. Dean, Students' Welfare B. P. Saxena, MA PhD Lond. Supt. of Physical Educn. Sr. Medical Officer: P. G. Ghosh, MB BS Jr. Medical Officers: R. Chandra, MB BS, L. Chandra, MB BS. Sec., Student Advisory Cttee: O. P. Bhatnagar, MA.

COLLEGES OF THE UNIVERSITY

[BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc.]

ALLAHABAD, *Kayastha Pathshala University College* BA Principal—R. K. Saksena, DSc Paris. 11 Tutors
ALLAHABAD, *Madan Mohan Malaviya College* (tel. Allahabad 2832) BA Hon. Principal—D. N. Roy 11 Tutors
ALLAHABAD, *William Holland University College* (American Presbyterian Mission) (tel. Allahabad 2814) BA. Principal—C. M. Chatterji, MA PhD Penn. 7 Tutors
ALLAHABAD, *Allahabad Agricultural Institute*, Naini (tel. Allahabad 85250) BSc(Agr), BSc (AgrEngg). Principal—J. B. Chitambar, PhD 26 Teachers
ALLAHABAD, *Chaudhury Mahadeo Prasad Degree College* (tel. Allahabad 2845). BA, BSc Actg Principal—J. P. Srivastava, MSc. 34 Teachers

ASSOCIATED COLLEGES OF THE UNIVERSITY

ALLAHABAD, *Aiyatal Vidyalaya Degree College* ALLAHABAD, *Ewing Christian College* (tel. Allahabad 85026) BA, BSc. Actg. Principal—S. S. Gideon, MA Edd Col. 31 Teachers.

GENERAL INFORMATION

Founded in 1887, the univ. concerned itself mainly with exams, having no teaching staff (except that of its sch. of law) until 1914. Thereafter it establd. chairs and readerships, etc., for res. work in econ. and mod. hist. for grad students. In 1922 an act was passed for the reorganization of the univ. as a unitary teaching and residential institution, with control, however, over the quality and character of the teaching in constituent colls. The Muir Central Coll. became the nucleus of a teaching univ., the jurisdiction of which was limited to a territorial area of 10 mls' radius from the convocation hall of the univ.

Within this area there are 7 institutions which supplement instruction given in the univ. The women's dept., which undertakes full instructn. for the degree course, has now been transferred from the Crosthwaite Girls' Coll. to the univ. area. In 1955, by a further amendment to the univ. act, two categories of coll. came into existence: colls. of the univ. (which are residential colls. for students of the univ. or recog. by the univ. in which tutorial and supplementary instructn. is provided) and associated colls. (which are also residential, but provide full degree courses as distinct from tutorial instructn.)

The univ.'s jurisdiction is within 10 mls' radius of the Senate Hall. It serves a population of about half a million.

CONSTITUTION The principal univ. authorities are the court, executive council, academic council, fac bds. The vice-chancellor, a full-time officer, is the principal executive and academic hd of the univ. He is *ex-officio* chairman of the executive council and academic council and in the absence of the chancellor he presides at meetings of the univ. court and convocation. The court is the supreme governing body. The executive council is vested with the control of the univ admin. The academic council is the supreme academic body. The function of the fac bds is to make recommendations to the academic council on academic matters.

INCOME (1959-60). Govt. grant (recurring and non-recurring), Rs. 169,155; fees, Rs. 239,811; other sources, Rs. 174,591.

LIBRARY 174,070 vols. Dabhangra reading hall. Deptl. libraries for use of teachers.

LABORATORIES Phys., chem, bot, zool.

MUSEUMS Econ and comm depts. Kaushambi museum (the univ. has undertaken excavations at Kaushambi, 40 mls. S.E. of Allahabad, and exploration of prehistoric sites in the Vindhya). A beginning has been made with a project for an art gallery.

SHIELA DHAR RESEARCH INSTITUTE conducts sp. res. in soil sci. J.K. INSTITUTE OF APPLIED PHYSICS provides res. facilities and 3-yr. course for MSc(Tech).

USUAL LANGUAGE OF INSTRUCTION is English. Hindi has been introduced in some undergrad. classes.

FACULTIES AND DEANS. Arts, Prof B P Saksena (hist.), comm., Prof J. K. Mehta (econ.), law, Prof P. K. Tripathi, sci., Prof S. Ghosh (chem).

ADMISSION. To courses of study for bachelor's degrees: exam of inter standard, equivalent to exam for overseas higher sch. cert awarded by the Univ. of Cambridge local exams syndicate. Inter exams. of other univs incorporated by law in India and inter exams of Mysore Univ. of bd. of high sch. & inter educn., Rajputana (incl. Ajmer-Merwara, Central India and Gwalior), are recog. for same purpose. Inter exam. in agric. of Nagpur Univ. so recog. for admission to the BSc(Agr) class, and prelim. exam. of Mayo Coll., Ajmer, recog. as equivalent to inter exam. of U.P. board. Grads. in agnrc. are eligible for admission to law classes.

Nether the univ. nor its colls. provide pre-univ. or inter. courses.

For admission to courses leading to higher degrees the BA and BSc degrees of Mysore Univ., or of any univ. in India recog. by the law of the place in which it is situated, are recog.

FIRST DEGREES 2 yrs.—BA, BA(HomeArts), BCom, BSc, BSc(HomeSciences), BSc(Agr), BSc(AgrEngg).

HIGHER DEGREES. 1 yr.—MEd, 2 yrs.—MA, MCom, MSc, LLB, LL.M (after LLB), 3 yrs.—MSc(Tech). Also DPhil (in arts and in sci), DLitt, DLitt(Econ), DSc, LL.D.

DIPLOMAS 1 yr.—local self-govt. admin. 2 yrs.—appl. arts & crafts, music, painting.

CERTIFICATES. 1 yr.—photography, soc. service & village uplift. 2 yrs.—Sansk., French, German, Russian, Chinese, Hindi.

RESEARCH. Facilities for res. in almost all depts. listed under 'Teaching Staff', above. Appns. for admission are considered by a res. degree cttee.

ACADEMIC YEAR July to April. 3 terms. Term dates (approx.) July 16 to Oct. 3, Oct. 9 to Dec. 23, Jan. 2 to April 30.

STUDENT RESIDENCES. Hostels under control of the univ. Sir Pramada Charan Banerji Hostel (accomm. 168 students), warden—Y. Sahai, MA, Sir Sunder Lal Hostel (167 students), warden—D. N. Elhance, MCom; Dr. Amaranatha Jha Hostel (107 students), warden—Major R. K. Kaul, MSc, Sir Ganganatha Jha Hostel (172 students), warden—Dr. S. Prakash, Diamond Jubilee Hostel (140 students), warden—P. Mohan, MA; Sarojini Naidu (Women's) Hostel (106 women students), warden—Miss L. D. Pathak, MA.

Hostels and colls. recog. by the univ. (for principals of colls. and of Agnrc. Inst., see p. 445): William Holland Univ. Coll. (280 students), Kayastha Pathshala Univ. Coll. (279 students), Madan Mohan Malaviya Coll. (326 students), Mohammedan Boarding House (93 students), warden—Dr. M. H. Faruqi, Sumnerchand Digambar Jain Hostel (55 students), warden—A. B. Saran, Ewing Christian Coll. (619 students); Chaudhury M.P. Degree Coll. (491 students), Iswar Saran Univ. Hostel (44 students), warden—Allahabad Agric. Inst., Naini (208 students), Agrawal Vidyalaya Degree Coll. (153 students). Fees: single room, Rs. 10 p.m., double, Rs. 8 8 p.m., triple, Rs. 7 p.m.

WOMEN'S EDUCATION. Women students reading for the BA degree are given, in the women's dept., lectures and tuition separate from men (19 women lectrs.). At present there are no such arrangements for postgrad. or sci. students. BA (HomeArts) and BSc(HomeSciences) courses for women.

UNIVERSITY MILITARY FORMATIONS. Membership of the N.C.C. is compulsory for students offering military sci. as 1 of their subs. in BA and BSc classes. Every male student of BA, BSc and BCom pt. I classes is required to join either N.C.C. or phys. trg. N.C.C. comprises 2 bns, 1 battery and 1 girls' division (optional).

STUDENT ADVISORY COMMITTEE supplies information to students intending to go abroad for higher studies.

STUDENT HEALTH SERVICE Every student by the end of the 2nd term immediately following his admission is medically examined by the univ med. officers at the univ dispensary. Med exam of girl students is made in the women's dispensary by a lady doctor. Dispensary has 1 full-time and 2 pt-time doctors.

STUDENTS' UNION All students of the univ. are members of the union (annual fee, Rs 2),

which organizes social, cultural, literary and other extra-curricular activities

PUBLICATIONS (a) *Annual—Calendar*, Rs 8, *Prospectus*, Rs 3 8, *Univ Minutes*, Rs. 5, *Univ Studies*, Zool, Rs 6 12, Sansk, Rs 0 10 6, Langs, Rs 0 14 0, Asiatic & Persian, Rs 3 2 6, Econ, Rs 1 12 0, Hist, Rs 0 14 0, Engl, Rs 0 13 0, Law, Rs. 0 10 6. *Annual Report*, free. (b) *Quarterly—Indian Journal of Economics* Rs 15 p a. (c) *Univ Magazine* (English 3 issues, Hindi 1, Urdu 1), Rs 2 8.

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	5406	—
Women	864	—
Total	6270	—

Distribution by Faculties. *Arts*, 3191, *comm*, 969, *law*, 791, *sci*, 1319. Total 6270

Included in the figures above are —

Intermediate or Pre-University students, nil

Postgraduate students, 2561.

New admissions, 1923.

Students from other countries, 53 (Countries from which largest numbers came Nepal and Ceylon)

DEGREES AWARDED (1959-60). BA (pass), 1200, BA(HomeArts), 7; MA, 597, MEd, 19; BCom, 123, MCom, 105, LLB, 276, LLM, 4, BSc (pass), 346, BSc(Agr), 78, BSc(AgrEngg), 26, BSc(HomeSciences), 8, MSc, 137; MSc(Tech), 12; DPhil, 45

ANDHRA UNIVERSITY*

Founded 1926

Postal Address . Waltair, Andhra Pradesh, South India

Cables and Telegrams University, Waltair

Telephone Waltair 324

CHANCELLOR—H E B SACHAR, Hon DLitt

PRO-CHANCELLOR—S B P P RAMA RAO, BA BL, Hon DLitt

VICE-CHANCELLOR—A L. NARAYAN, MA, DSc, FIP

PRINCIPAL OF THE UNIVERSITY COLLEGES—Professor C MAHADEVAN, MA DSc

REGISTRAR—K. V. GOPALASWAMY, MA Oron

UNIVERSITY ORATORS—English, Professor K R. SRINIVASA IYENGAR, MA DLitt, Telugu, M R. APPARAO BAHADUR, MA

HON LEGAL ADVISER—L SUBBA RAO, BA BL Hon DLitt

TEACHING STAFF (see also p. 451)

(†=Part-Time)

UNIVERSITY COLLEGE OF ARTS AND COMMERCE

Commerce

Das, K. K., BCom Lond., DCS Harv

Prof, Hd. of Dept.

Datta, H K., MA(Com) Dacca

Reader

Gowri Sankar, I., MBA DipStats Harv.,

Reader

MA LLB

Sivayya, K. V., MBA Bradley, PhD Chic.

†Lectr.

Rao, C P., FCA

†Lectr.

Murty, K S N, LL.M

Reddi, G S, Sahitya Ratna Alld

(Hindi) Pandit

Mathew, M O, MCom PhD

Lectr

Satyanarayana, J, MCom

Lectr

Purushothama Rao, C, MCom

Lectr

Umamaheswara Rao, C, MCom

Lectr

Economics and Sociology

Sarveswara Rao, B., MA PhD Lond.

Prof, Hd of Dept

Ramana, D V, BA PhD Chic.

Reader

Subrahmanya Sastry, K V, BA

Lectr

Ramana, K. V, BA

Lectr

Gopalakrishna Reddy, M, MA BL

Lectr

Venkataswara Rao, S, BA

Lectr.

Ranga Rao, K., MA

Lectr.

Suhasini, Mrs R, MA MSc

Lectr

Narasimhamurthy, V, BA MSc

Lectr

Sanjuvi Reddy, P. L., BA

Lectr

Satyanarayana Rao, A., MSc

Lectr

Prasada Rao, B, BA

Lectr

Machi Raju, H R, MA LLB PhD

Lectr

Subba Reddy, N, MA LLB PhD

(Soc Anthropol) Lectr.

Satyanarayana, K. V., MA

Res Officer

English

Srinivasa Iyengar, K. R., MA DLitt

Prof, Hd. of Dept

Muthuswamy, B., MA

Reader

Viswanadham, K., MA

Reader

Raghavacharyulu, D V K, BA PhD

Lectr

Sen, Mrs. Ila, MA PhD

Lectr

Indusekhara Sastry, M, BA

Lectr

Lakshmidevi, Mrs Kurma, BA

Lectr

Prabhakara Rao, P P. C, BA

Lectr

Ramesh Dutta, T, BA

Lectr.

Krishna Rao, N, BA

Lectr

Krishna Sarma, S, BA

Lectr

Ramachandra Rao, B, BA

Lectr

Krishna Sastry, L V L. N S. R, BA

Lectr

Adilakshmi, B M, BA

Lectr

French and German

Krishnamachari, S T., Certdelangue

française Paris, DLA Berl, BA BL

Reader, Hd of Dept of Mod. European

Langs (other than Engl)

Indu, Mrs Dutt

†Lectr

History and Politics

Ramachandiah, O., MA PhD

Reader, Actg Hd of Dept.

* Member of the Association of Universities of the British Commonwealth

Sambasiva Rao, K., BA
 Somasekhara Sarma, M.
 Suryanarayana Murthy, E., BA
 Venkateswarlu, K., BA
 Ramachandrasekhara Rao, R. V., MA
 PhD
 Narasimhamurthy, A. V., MA
 Srinamamurthy, Y., BA

Lectr. Rama Rao, K. R., MA
 Lectr. Venugopal, N., MA
 Lectr. Sanskrit
 Lectr. Srinamamurthy, P., MA
 Lectr. Ramanujachari, K., Siromani POL
 Lectr. Madhusudan Shodangi, Vidya Praveen
 Prof. Lectr. Pandit

Mathematics

Ramaswamy, V., BA PhD *Camb.*

Prof., Hd. of Dept

Subrahmanyam, N. V., BA
 Ramathohana Rao, C., BA
 Chithambaraswamy, J., BA
 Satyanarayana, U. V., BA
 Gopalakrishna, J., BA
 Rajeswara Rao, K. V., BA
 Krishnaiah, P. V., BA
 Suryanarayana, D., BA
 Srivasankara Sastry, A., BA
 Venkateswara Rao, N., BA
 Rama Kotiah, D., BA

(on leave) Lectr

(on leave) Lectr

Lectr

Lectr

Lectr

(on leave) Lectr

Lectr

Lectr

Lectr

Lectr

Sociology, see Econ and Sociol

Statistics

Nagabhushanam, K., MA FilLac DFl
Stockholm Prof., Hd of Dept.
 Avadhani, T. V., BA PhD Reader
 Krishnamurthy, V., MSc Lectr.
 Ramanamurthy, G. V., MSc Lectr.
 Ramchandramurthy, P. V., MSc
 (on leave) Lectr
 Dasaradharama Rao, K., MSc Lectr
 Bhagavan, C. S. K., MA MSc Lectr.
 Suryannayana, K. V., MA MSc Lectr

Telugu

Somayaji, G. J., MA LT Vidwan POL *Madr*
 Prof., Hd of Dept
 Narasimham, K. V. R., MA PhD Reader
 Krishnamurthy, B., MA PhD *Penn.* Lectr.
 Joga Rao, S. V., MA PhD Lectr
 Srinamamurthy, K., MA Lectr
 Sastri, D. V., Vidwan *Madr.* Pandit
 Donappa, T., BA Chief Asst
 Kumaraswami Raja, N., MA (Tamil) Asst.
 Puru Shotham, B., BA Asst.

Philosophy

Satchidanandamurthy, K., BA PhD
 Prof., Actg Hd of Dept
 Lakshmana Rao, A., BA Lectr
 Parthasarathy Rao, D. N., BA Lectr.
 Krishnamurthy, MA Shastri Lectr
 Kishen, B. V., MA PhD Lectr
 Narayanamurthy, J. S. R. L., MA Lectr.

Politics, see Hist and Pol.

Rural Studies, Co-operation and Sociology

Subrahmanyam Naidu, MA Prof., Hd. of Dept.
 Patrudu, B. V. S., BA Lectr
 Zakia Rahimuddin, Miss, BA Lectr.

Theatre Arts

Gopalaswamy, K. V., MA *Oxon.*
 Hon. Prof., Hd of Dept
 Agashya, K. Tech. Dir.
 i Stage Dir.

JEYPORE VIKRAMA DEO COLLEGE OF SCIENCE AND TECHNOLOGY**Applied Physics**

Krishnaswami Chetty, S. T., DIC, MSc
 Lond, MA Prof., Hd of Dept
 Yerrayya Pantulu, V., MSc Lectr.
 Kameswara Rao, T. V., MSc Lectr.
 Satyanarayana Murthy, D., DSc (on leave) Lectr
 Gopalakrishna, K. V., DSc Lectr.
 Seetharamaswamy, P., MSc Lectr

Somdevamma, Mrs K., DSc Lectr.
 Muralikrishna, U., MSc Lectr.
 Jagannatha Rao, K. V., MSc Lectr
 Bhumasankara Rao, C., MSc Lectr.
 Seetharamaraju, S., MSc Lectr
 Srinamam, K., MSc Lectr.
 Krishna Rao, P. V., MSc Lectr.
 Krishna Rao, B. S., MSc Lectr.
 Deepshilulu, L. S. A., MSc Lectr.

Chemistry

Gopala Rao, G., DSc *Alld.* Prof., Hd of Dept
 Raghava Rao, B. S. V., MSc PhD *Lond.* Prof
 Ramachandra Rao, L., DSc Reader
 Venkateswarlu, V., PhD *Liv.* DSc, FRIC Reader
 Narasimha Sastri, M., DSc Reader
 Panduranga Rao, V., DSc Reader
 Suryanarayana, M., DSc Lectr.
 Venkateswara Rao, N., MSc Lectr.

Geophysics

Krishnan, M. S., DIC, PhD *Lond.*,
 MA *Madr*, FNI Prof., Hd. of Dept
 Rama Rao, B. S., DIC, PhD *Lond*, DSc Prof
 Ramnadham, R., DIC, PhD *Lond.*, MSc Prof.
 Subrahmanyam, V. P., DSc (Meteorol.) Reader
 Bhaskara Rao, V., MSc PhD Reader
 Varadachari, V. V. R., DSc (Meteorol.) Lectr.

Shankara Rao, M, DSc
(on leave) (Meteorol) Lectr.
Balaramamurti, C, DSc (Meteorol) Lectr.
Subba Rao, K, MSc
(on leave) (Meteorol) Lectr.
Janakiramayya, B, MSc Lectr.
Bhuma Sankaram, V L S, DSc Lectr.
Jagannadhasarma, V V, MSc Lectr.
Arthur Paul, P, MSc Lectr.
Jagarmohan Rao, N, MSc (Meteorol.) Lectr.

Pharmacy

Rangaswamy, S, MA PhD Prof., Hd. of Dept.
Subba Rao, V, PhD *Manc*, DSc Reader
Viswanadham, N, DSc Reader
Sambamurti, K, DSc Lectr.
Narayana, C. S, PhD *Wis* Lectr.
Venkata Rao, B, DSc (on leave) Lectr.
Mallayya Sastry, K., MPharm Lectr.
Narayanan, M N, MPharm Lectr.

Physics

Raman, Sir C ²V, MA PhD DSc LLD,
FRS Hon Prof.
Rao, K R, MA DSc *Lond* Prof., Hd. of Dept.
Ramachandra Rao, B., DSc Prof.
Truvenga Rao, P., DSc Reader
Premaswarup, D, PhD *Lond.*, DSc Reader
Krishnamurti, B, DSc Lectr.
Radhakrishnamurti, C, DSc (on leave) Lectr.
Shanthamma, Mrs. C, DSc Lectr.
Sri Rama Rao, M, DSc Lectr.
Suryanarayana, V, DSc * Lectr.
Subba Rao, K, DSc (on leave) Lectr.
Narasimha Rao, D. V L, DSc (on leave) Lectr.
Hararath, P B V, DSc Lectr.
Gopala Rao, M S V, MSc (on leave) Lectr.
Ramana, K V V, MSc Lectr.
Raghava Rao, R, DSc Lectr.
Paddi Reddy, S, DSc Lectr.
Lakshman, S V J, MSc Lectr.
Ramakrishna, J, MSc Jr Lectr.

Physics, Mathematical

Meenakshi Sundaram, S, MA DSc
Prof., Hd. of Dept

Venkatarayudu, T., MA PhD Prof.
Rao, P. S., DSc PhD Reader
Krishnamurti, T. S. G., MSc Lectr.
Sangameswara Rao, D. R. K., MSc Lectr.
Vidyanidhi, V, MSc Lectr.
Krishnakumari, Miss Y., MSc Lectr.
Sundarama Sarma, G., MSc Lectr.

Physics, Nuclear

Swami Gnanananda, MSc PhD, FIP Prof., Hd. of Dept.
Ramaraj, S., MSc Lectr.
Suryanarayana, D., DSc Lectr.
Lakshminarayana, V, DSc Lectr.
Venugopala Rao, P, MSc (on leave) Lectr.
Venkata Reddy, K, MSc Lectr.
Ramakrishnaraju, M, MA DSc Lectr.
Rama Rao, J, MSc (on leave) Lectr.
Narasimhamurti, K, MSc Lectr.
Narasimhamurti, V A., MSc Lectr.

Technology

Venkata Rao, C, DIC, MSc PhD Prof., Hd. of Dept.
Dasa Rao, C J, BSc(Ag) *Madr*, MSc(Tech) Reader
Raghateswarlu, A., DSc Lectr.
Raghavacharya, M V, DSc Lectr.
Subba Rao, V, MSc PhD Lectr.
Chidambanswara Rao, B (on leave) (Electr Engin) Lectr.
Venkataratnam, A, MSc Lectr.
Krishnamurti, V V. G., DSc Lectr.
Chiranjivi, C, DSc Lectr.
Jayanama Rao, G, DSc Lectr.
Jagannadharaju, G. J V., DSc DPhil Lectr.
Dakshnamurti, P., DSc Lectr.
Jagannadha Rao, R, DSc Lectr.
Subrahmanyam, V, MSc Lectr.
Somasundara Rao, K, MSc Lectr.
Subba Rao, B V, DSc (on leave) Lectr.
Ramaraj, M, MSc Lectr.
Krishnamurti, R, MSc Lectr.
Sanyasi Reddy, M., MSc Lectr.
Subba Raju, K, MSc Lectr.
Parbathalingeswara Rao, V, MSc ME (Metall) Lectr.

ERSKINE COLLEGE OF NATURAL SCIENCES

Botany

Venkateswarlu, J., PhD *Camb*, DSc Prof., Hd. of Dept.
Seshagiri, P. V V, MSc Reader
Venkata Rao, C., DSc Reader
Sree Ramulu, T, MSc Reader
Sundarasiva Rao, B., MSc Lectr.
Sastri, R. L. N, DSc Lectr.
Maheswaradevi, Mrs H., DSc Lectr.
Ramakrishna Reddy, V, MSc Lectr.
Bhuvanamurti, P V., MSc (on leave) Lectr.
Srinivasa Rao, B. G., MSc Lectr.

Ramana, T V, MSc Lectr.
Narasimha Rao, P, MSc Lectr.
Prakasa Rao, P. S., MSc Lectr.
Bhaskararama Sastry, C, MSc Lectr.
Narasinga Rao, M. B. V., BA BSc
Raju, C S K., MSc (on leave) Res Asst.
Seshavthaiam, V., MSc Res Asst

Geology

Mahadevan, C, MA DSc Prof., Hd. of Dept
Narasinga Rao, A, MSc PhD Reader

Sriram Das, A, MSc PhD	Reader	Zoology	
Poornachandra Rao, M, DSc	Reader	Ganapati, P N, DSc	Prof., Hd of Dept
Aswathanarayana, U., DSc	Reader	Rao, T. S. S., DSc	Reader
Krishna Rao, J. S. R., DSc	Lectr.	Dutt, S., MSc PhD	Reader
(on leave) Lectr.		Hanumantha Rao, K, DSc	Reader
Borreswara Rao, C., DSc	Lectr.	Narasimhamurthy, C. C., DSc	Lectr.
Sarna, B B G., DSc	Lectr.	Nagabhusanam, R, DSc	(on leave) Lectr.
Vaidyanadhan, R, MSc	Lectr.	Narasimha Rao, M V, MSc	Lectr.
Sastry, A V R, MSc	(on leave) Lectr.	Lakshmana Rao, M. V, MSc	(on leave) Lectr.
Satyannarayana, D L, MSc	Lectr.	Bhavanarayana, P V, MSc	Lectr.
Subba Rao, M, DSc	(on leave) Lectr.	Radhakrishna, Y, MSc	(on leave) Lectr.
Kameswara Rao, K, MSc	Lectr.	Subba Rao, D V, MSc	(on leave) Lectr.
Ramana Rao, S, MSc	Lectr.	Subrahmanyam, M, MSc	(on leave) Lectr.
Ramamohana Rao, T, MSc	Lectr.	Shyama Sundari, Miss K, MSc	Lectr.
Kshetrasagar, T. V S R, MSc	Jr Lectr.		

UNIVERSITY COLLEGE OF LAW

Raman, S. V, BA ML	Prof., Hd of Dept.	Gupteswar, K, ML	Lectr.
Satyannaraynamurthy, B, LL.M JSD Yale,		Ramachandra Rao, A S, BSc ML	Lectr.
BA BL	Reader	Lakshmana Rao, V, BA BL	Lectr.
Gopalakrishna Sastri D, LL.M Yale, BA		Padmanabha Rao, B, BSc ML	Lectr.
ML	Lectr.	Murthy, K S N, LL.M	† Lectr.

UNIVERSITY COLLEGE OF ENGINEERING

Engineering, Civil		Ramamurthy, V, BE	Lectr.
Krahnacharyulu, K, DIC, MSc Lond.,		Krishnamurthy, D, BE	Lectr.
BE	Prof.	Radhakrishnamurthy, V, BE	Lectr.
Koteswara Rao, K, BE	Reader	Govinda Rao, G, BE	Tech. Asst.
Dayaratnam, P, BE	(on leave) Lectr.	Kamerwara Sarma, C, BE	Tech. Asst.
Ranganatha Rao, R P, BTech	Lectr.		
Shivaji Rao, T, BA BTech	(on leave) Lectr.	Engineering, Mechanical	
Bangarewarasarma, V, BE	Lectr.	Appa Rao, K V, BE	Reader
Venkata Rao, M V, BSc BTech	Lectr.	Venugopala Rao, T, BE	Reader
Narayana Rao, D V, BE	Lectr.	Subba Rao, V, BE	Lectr.
Jagannatha Rao, V, BE	Jr Lectr.	Kameswarasarma, P	(on leave) Lectr.
Janaki Rao, A, BSc BE	Jr Lectr.	Narasimha Rao, N L	Lectr.
Sarma, D V S, BE	Jr. Lectr.	Manoranjan, K P, BE	Lectr.
Subba Rao, B, BE	Jr. Lectr.	Basava Raju, G C V, BE	Lectr.
		Mohammed Amir, A, BE	Lectr.
		Lakshmanamurthy, P, BE	Lectr.
		Someswara Rao, R N, BE	Lectr.

Engineering, Electrical

Satapathi Rao, D, DIC, BA MSc(Eng) Lond	
	Reader, Hd of Dept
Sitaramaraju, M, BE MSEE	Reader
Krishna Sastry, L B, BTech MSEE	Reader
Ratnam, P V, BE	Lectr.

Mathematics

Sastry, J B, BE	† Lectr.
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ADMINISTRATIVE AND OTHER STAFF

Dep Registrar V Simhadri Rao, MA Asst Registrar G V S L Narasimham (Acctg), Y Nana Rao, BCom (Exams.); G Parthasathy, BA (Legal). Dir, Phys. Educn K Sudaisana Rao, BA DipPhysEdn Asst. Dir, Phys Educn

Hon Architectural Consultant Br D Ganti, Vyayawada Librarian K Ramakrishna Rao, MA MA(Lib) Chuc. Engineer: K V Subba Rao

UNIVERSITY COLLEGES

(For Teaching Staff, see above)

Principal—Prof C Mahadevan, MA DSc

WALT AIR, *Erskine College of Natural Sciences* Provides instruct for BSc hons in bot and zool, MSc in bot and zool.

WALT AIR, *Jayapure Vikrama Deo College of Science and Technology* Provides BSc hons., post-hons and res courses in phys, chem, and

geol., MPharm; MSc courses in mathl phys, nuclear phys, stats., chem. technol., ore-dressing, MScTech courses in appl phys., geophys, meteorol and appl geol., BPharm, BTech course in chem. engin and dipl in geog

WALTAIR, *University College of Arts and Commerce* Provides hons, post-hons and res courses in maths, philos, hist, econ., politics, Telugu, Engl, comm, Sansk, MA course in soc. work and rural studies and anthropol and

MBA (business admin), post-grad dipl in co-operation and rural studies and dipl in Hindi, dipl and cert courses in librarianship, theatre arts, dipl in acting

WALTAIR, *University College of Engineering* Provides instruct for BE degree

WALTAIR, *University College of Law*. Provides instruct in FL and BL courses of study, and facilities for postgrad courses in law for ML and DL

AFFILIATED COLLEGES

[Pre-Univ., BA, etc, after the name of a coll means that courses are provided there for Pre-Univ., BA, etc.]

Professional Colleges

BAPATLA, *Agricultural College* BScAg Principal—B Appala Naidu, MA MSc PhD Kansas 56 other Teachers

GUNTUR, *Medical College*. Pre-Professl Med course, MB BS. Principal—D. J. Reddy, MD. 89 other Teachers.

GUNTUR, *St. Joseph's Training College for Women* BED Principal—Rev Sr Anna Maria, MA MED 8 other Teachers

KAKINADA, *Engineering College* BE. Principal— . . 55 other Teachers

KAKINADA, *S.R.M. Medical College* Pre-Professl. Med. course, MB BS. Principal—B Narayana, MB BS MSc PhD, FNI. 46 other Profs and Lectrs

RAJAHMUNDRY, *Govt Training College* BED, MED Principal—V Habibullah, MA LT 20 other Teachers.

VISAKHAPATNAM, *Andhra Medical College*. MB BS, MSc(Med), DSc(Med), MD, MS, DLO, DV, DO, DGO, DD, DA, DCH, TDD Principal—P Narasimha Rao, MS, FACS. 134 other Lectrs

* First Grade Colleges

AMALAPURAM, *Sree K B R College* Pre-Univ., BA, BCom, BSc. Principal— . . 53 other Teachers

ANAKAPALLI, *A.M.A.L. College* Pre-Univ., BA, BCom, BSc. Principal—R. Subbaiah, BSc 37 other Teachers

BHIMAVARAM, *Bhramavaram College*, West Godavari Pre-Univ., BA, BCom, BSc. Principal—E Lakshminatha Rao, MA. 77 other Teachers

CHIRALA, *V.R.S. College*. Pre-Univ., BA, BCom, BSc. Principal—T Rama Rao, MA PhD 57 other Teachers.

ELURU, *Sr C Ramalinga Reddy College* Pre-Univ., BA, BCom, BSc. Principal—D. S Subrahmanyam, MA BED 72 other Teachers

ELURU, *St Theresa's College* Pre-Univ., BA, BSc. Principal—Mrs. L. De Souza, MA LT. 18 other Teachers

GUDDIVADA, *A.N.R. College*. Pre-Univ., BA, BCom, BSc. Principal—A F. Thyagaraju, MA Lond. 42 other Teachers

GUNTUR, *Andhra Christian College*. Pre-Univ., BA, BSc, BED. Principal—T S Paulus, MA LLD 79 other Teachers.

GUNTUR, *Govt. College for Women* Pre-Univ., BA, BSc Principal—Miss B Pankajam, MA LT. 49 other Teachers.

GUNTUR, *Hindu College* Pre-Univ., BA, BCom, BSc Principal—V Subba Rao, MA 99 other Teachers.

KAKINADA, *Pithapur Rajah's Govt College*. Pre-Univ., BA, BCom, BSc Principal—P. Srinamam, MA BED 105 other Teachers

MASULIPATAM, *Andhra Yateya Kalasala*. Pre-Univ., BA, BCom, BSc Principal—M. Sivakamasya, MA BED. 43 other Teachers.

MASULIPATAM, *Hindu College*. Pre-Univ., BA, BCom, BSc Principal—M. Gourinadha Sastru, MA DSc 68 other Teachers.

NARASARAOPET, *S.S.N. College* Pre-Univ., BA, BCom, BSc Principal—I Ranganayakulu, MA LLB. 59 other Teachers

NARSAPUR, *Narsapur College* Pre-Univ., BA, BCom, BSc. Principal—Vanguri Subba Rao, MSc BED 41 other Teachers.

NIDUBROLU, *P.B.N. College*. Pre-Univ., BA, BSc, BCom Principal—G V Subbaramayya, MA. 25 other Teachers

ONGOLE, *C.S.R. Sarma College* Pre-Univ., BA, BCom Principal—V. Muthu Iyer, MA. 38 other Teachers

RAJAHMUNDRY, *Govt. Arts College*. Pre-Univ., Pre-Professl, Agric. course, BA, BCom, BSc.

Principal—K. V. Punniyah, MA BEd. 98 other Teachers

SRIRAKULAM, *Gout Arts College*. Pre-Univ., BA, BSc, BCom. Principal—K. Rajamannar, MA LT. 45 other Teachers.

TENALI, *V S R College*. Pre-Univ., BA, BCom, BSc. Principal—S P Ragland, MA LT. 40 other Teachers

VIJAYAWADA, *Andhra Loyola College*. Pre-Univ., BA, BCom, BSc. Principal—Fr. D. Gordon, MA. 93 other Teachers.

VIJAYAWADA, *S.R.R. & C.V.R. Govt. College*.

Pre-Univ., BA, BCom, BSc. Principal—N. Rama Rao, MA BEd. 75 other Teachers.

VISAKHAPATNAM, *Mrs A V. N. College*. Pre-Univ., Pre-Professl. Med. course, BA, BCom, BSc. Principal—C. Suryaprakasam, MA BEd. 57 other Teachers.

VIZIANAGARAM, *Maharaja's College*. Pre-Univ., BA, BCom, BSc, BEd. Principal—V. Venkata Rao, MSc. 72 other Teachers.

WALTAIR, *St Joseph's College for Women*. Pre-Univ., BA, BSc. Principal—Sr. Maria Germaine. 17 other Teachers.

Oriental Colleges

[BP, POL, VP after the name of a coll means that courses are provided there for
Bhasha Praveena, cert of proficiency in oriental learning, Vidya Praveenaj]

AUKIRIPALLI, *Sri Markandeya Sanskrit College*. BP, VP. Principal—P Venkateswara Sastry. 8 other Teachers

BRIMAVARAM, *Oriental College*. BP, VP. Principal—D. Sarveswara Sastry. 4 other Teachers

GUNTUR, *Dr K V K Sanskrit College*. BP, VP. Principal—K Subbaramarajah, Bhasha Praveena. 4 other Teachers

GUNTUR, *Saradamketanam*. BP, DipinMusic. Principal—Vidwan Mrs M Savithri Devi. 4 other Teachers.

KOVVUR, *S V V Sanskrit College*. BP, POL, VP. Principal—K V N Appa Rao, MA. 6 other Teachers.

MASULIPATAM, *Narasimha Sanskrit College*, Chittigudur. BP, VP. Principal—S. T. G. Varadachari, MA. 7 other Teachers

MODEKURRU, *Challepalli Rajeswari Sanskrit College*. BP, VP. Principal—K. Somasekhara Sastry. 5 other Teachers.

PONNUR, *Sri Bhawanarayana Swami Sanskrit College*. BP, VP. Principal—P Perayya Sastry. 8 other Teachers

RAJAHMUNDRY, *Andhra Women's Sanskrit College*. BP. Principal—Mrs B Kamakshamma. 6 other Teachers

RAJAHMUNDRY, *S G V P Oriental College*. BP, VP. Principal—K A. Padmanabha Sastry. 7 other Teachers.

TENALI, *Kota Lakshmiiah Naidu Sanskrit College*. BP. Principal—P. Ramakoti Sastry. 5 other Teachers.

VIJAYAWADA, *Oriental College*. BP. Principal—V. V. R. Somayaji. 3 other Teachers

VIZIANAGARAM, *Maharaja's Music College*. DipinMusic. Principal—. . . 8 other Teachers

VIZIANAGARAM, *Maharaja's Sanskrit College*. BP, VP. Principal—K. Sriramamurti Sastry. 6 other Teachers

GENERAL INFORMATION

The act of the Madras legislative council constituting the Andhra Univ. 'in and for the Telugu districts of the presidency of Madras' came into force in 1926. By a later act, the area has been narrowed down by the exclusion of certain districts, leaving the following within the affiliating jurisdiction of the univ. Srikakulam, Visakhapatnam, East Godavari, West Godavari, Kistna and Guntur. The act establishes 5 categories of colls. 'univ. colls.', providing for pass and honours or postgrad. courses for higher degrees, 'first grade colls.', providing courses for the ordinary degrees in arts or sci., 'second grade colls.' (there are none at present), preparing for the pre-univ. exam., 'professional colls.', providing courses in agric., engin., teaching, and for med. degrees, and 'oriental colls. (recognized)', providing courses for oriental titles. *

CONSTITUTION. The supreme governing body is the senate. The vice-chancellor, a whole-time

salaried officer and principal executive, is nominated by the chancellor for a period of 5 yrs. The other principal authorities of the univ. are an executive body called the syndicate comprising 15 members, incl. the vice-chancellor, financial sec. to the state govt and dir. of public instrum. (Andhra Pradesh Hyderabad Deccan); the academic council; the facs and bds. of studies

INCOME (1959-60). Total, Rs. 5,862,698 (govt grant, 18.4 per cent; exam. fees, 30.9 per cent., tuition fees from univ. colls., 9.6 per cent., publicans., 3.1 per cent., other fees, 38 per cent.)

FACULTIES. Agric., arts, comm., engin., law, med., oriental learning, sci., teaching

LIBRARY. 80,900 vols.

ADMISSION to pre-univ. course is by matric exam. and secondary sch. leaving cert. exam. (the

latter conducted by the Andhra govt) or any other equivalent exam

PRE-UNIVERSITY COURSE. Candidates who pass the matric or S S L C. exam follow a 1-yr course leading to the pre-univ exam. On passing the pre-univ exam, a student may be admitted to the 3-yr pass or 4-yr honours degree course, or to the integrated courses in engin. (BE), chem engin (BTech), pharm (BPharm) or med (MB BS) or to the 1-yr pre-professional course leading to BScAg degree course (see also footnotes, below)

FIRST DEGREES (see also above) 3 yrs after pre-univ —BA, BCom, BSc, 4 yrs. after pre-univ —BA hons (in econ, Engl, hist, maths, philos, pol, Sansk, Telugu), BCom hons, BSc hons (in bot, chem., geol, maths, phys, zool); 3 yrs. after pre-professional—BScAg, 4 yrs after pre-univ —BPharm, 5 yrs after pre-univ.—BE, BTech (in chem engin), 5½ yrs (plus 1 yr post-exam. trg.) after pre-univ —MB BS

HIGHER DEGREES 1 yr —BED, MA (after BA hons., or 2 yrs after BA), MCom (after BCom hons.), MSc (in chem technol, mathl. phys., ore-dressing, phys. & nat scis) (after BSc hons), MED (after BED), MCom hons (after MCom); 2 yrs —BL, MA hons (after BA hons or BA), MA (in soc work, rural studies or anthropol), MBA (business admin), MSc (2 yrs after MB BS and not less than 1 yr after registration for res), MSc (in statistics) (after BA hons or BSc hons. in maths), MSc (in analyt. tech, appl geol, appl phys, geophys, meteorol, nuclear phys) (after BSc hons.), MScAg (after BScAg), MPharm (after BPharm), ML (after BL), DL (after ML); 3 yrs —DSc (after MSc or MB BS), 5 yrs 'practice or 3 yrs' hosp practice after MB BS, followed by

6 mos' lecture course—MD, MS Also PhD (in arts, comm), 2 or 3 yrs

HONORARY DEGREES. DLitt, DSc, LLD, Kala-Prapurna (hon. doctorate in oriental learning)

DIPLOMAS 1 yr —French, geog., German, Hindi, librarianship, and theatre arts and acting, 2 yrs —music, 1 yr after MB BS—postgrad dipls in med and surg. DA, DCH, DD (dermatol), DGO, DLO, DO, DV, TDD, postgrad dipl in co-operation and rural studies.

CERTIFICATES POL (proficiency in oriental learning), 3 mos —librarianship, 8 wks —theatre arts.

ORIENTAL TITLES 4 yrs —Vidya Praveena, Bhasha Praveena

The EXAMINATIONS of all statutory Indian univs. are recog as equivalent to the corresponding exams of the univ

ACADEMIC YEAR July–March 3 terms. Term dates (approx) July 1 to Sept. 10; Oct. 3 to Dec. 23, Jan. 18 to March 31.

MEDIUM OF INSTRUCTION is English.

RESIDENCE Every student of the univ must reside in a hostel or under prescribed conditions, 9 univ hostels for men Sadharma Sadhana, Viveka Vinaya, Vinaya Vihara, Asoka Vardhana, Harsha Vardhana, Siddhardha, Kirlampudi, Pithapuram, new engin. hostels, 1 univ. hostel for women.

PUBLICATIONS Univ. Code, vol. I (act and statutes) every 2 yrs, vol. II (regns., syllabuses, ordinances) every 3 yrs, Annual Register (univ authorities, staff), Annual Report, Minutes, Students' Handbook

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1959–60 *

	Univ. Colls	Affiliated Colls	Oriental Colls
Men	2455	22,437	225
Women	143	2,588	67
Total	2598	25,025	292

Distribution by Faculties, etc. Agric, 465, arts, 15,084, comm, 1994; engin, 1210, law, 353, library sci., 53, med, 1798, ore-dressing, 2, oriental learning, 292; pharm., 72; sci, 6053, teaching, 396, technol, 143 Total 27,915

Included in the figures above are:—

Pre-University students, 9419
Pre-Professional students, 438 §
Postgraduate students, 831

* All students are full-time

§ From 1959–60 pre-professional courses in engin, pharm. and technol have been integrated with the respective degree courses and made the 1st yr. of the integrated courses. There is thus a decrease in the number of 'pre-professional students' as compared with 1958–59

|| Under the reorganization of courses, the 1st yr. of 2-yr degree courses and 3-yr honours. courses has been abolished from 1959–60, so there is a decrease in the number of 'new admissions' as compared with 1958–59.

New admissions, 15,878 ||
Students from other countries, 19 (Countries from which largest numbers came: Fed of Malaya, 5, Mauritius, 4)

DEGREES AWARDED (Dec. 1960) DSc, 16, DSc (pharmacol), 1, PhD, 3, MSc (by res.), 26; MA (hons), 5; MSc, 124; MD, 14, MS, 7, MB BS, 196, BEd, 402, MEd, 5, BL, 175; ML, 3, BScAg, 77, MScAg, 7, BE, 173, BPharm, 10, MPharm, 6, BSc, 979, BSc (hons.), 115; MA, 102, MA (soc work), 20, BA (hons), 136; BA, 2253, MBA, 23, MCom, 14; BCom (hons), 19; BCom, 542

ORIENTAL TITLES Vidya Praveena, 8, Bhasha Praveena, 55; Vidwan, 3

DIPLOMAS AWARDED (Dec 1960) DGO, 11, DO, 1, DLO, 3, DCH, 1, DV, 1, TDD, 1; postgrad dipl in co-operation and rural studies, 36

ANNAMALAI UNIVERSITY*

Founded 1928, incorporated 1929

Postal Address : Annamalaiagar, Madras State, South India

Cables and Telegrams : University, Annamalaiagar

Trunk Telephone : CDM 49

CHANCELLOR—H.E. THE GOVERNOR OF MADRAS

PRO-CHANCELLOR AND FOUNDER—RAJAH SIR M A MUTHIAH CHETTIAR OF CHETTINAD, BA DLitt

VICE-CHANCELLOR—V SUBRAMANYA NADAR, BA BL *Madr.*

REGISTRAR—T D MEENAKCHISUNDARAM, BA BL *Madr.*

BURSAR—R. NAGARAJAN, BA

HON. LIBRARIAN—R RAMANUJACHARIAR, MA

TEACHING STAFF

Agriculture

Rangaswami, G, PhD <i>Rutgers</i> , BSc(Ag)	Prof
Sambandam, C N, BSc(Ag)	Lectr
Chandrasekaran, S, BSc(Ag)	Lectr
Pandurangan, S V, BSc(Ag)	Lectr
Lakshmanan, A R, BSc(Ag)	(on leave) Lectr.
Rama Rao, R, MSc(Ag)	Lectr.
Narayana Prasad, N., MSc(Ag)	Lectr
Alagappan, R M, BSc(Ag)	Lectr.
Ramanathan, D A.	Lectr
Kaliaperumal, S, MSc(Ag)	Lectr
Kalyanasundaram, P, MSc(Ag)	Lectr
Kalyanam, N P, BSc	(on leave) Lectr
Kaliaperumal, T T, MSc	Lectr
Subramanyam, C S, BSc(Ag) MSc	Lectr
Chudambaranathan, A., BSc(Ag)	Lectr
Easwaran, K S S., BA BSc(Ag)	Demr.
Balasubramanyan, M, BSc(Ag)	Demr.
Balasubramanyan, A, BSc(Ag)	Demr

Biological Stn, Portonovo

Seshaya, R V, MA	Prof, Dir
Jacob, J., MA PhD	(on leave) Sr Res. Officer
Balasubramanyam, K, MSc	Jr Res Officer

Botany

Singh, T C N, DSc	Prof
Rangaswami Ayyangar, K., MSc PhD	Reader
Srinivasan, C, MSc	Lectr
Ganesan, R, MSc	Lectr
Gnanam, A, MSc BT <i>Madr</i>	Lectr
Raghavan, R., MSc	Lectr
Periaswami, K, MSc PhD	Lectr
Lakshmanachar, A S, BSc	Demr
Kasinathan, N, MSc	Demr

Chemistry

Baliiah, V, MSc PhD <i>Stan</i>	Prof
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Suryanarayana, C. V, MSc DPhil *Alld*

Balesubramanian, M, MA PhD	(on leave) Reader
Krishnamurti, S, MA MSc	(on leave) Lectr
Shanmuganathan, S, MA MSc PhD	(on leave) Lectr
Gopalakrishnan, V, MA MSc	Lectr
Ganapathy, K, MSc	Lectr
Somasundaram, K M, MSc PhD	(on leave) Lectr
Tiruvengkatachari, V, MSc	(on leave) Lectr
Natarajan, C, MA MSc	Lectr
Ekambaram, A, MSc	Lectr
Mangalamudaiyar, A., MSc	Lectr
Rangarajan, T, MA MSc	Lectr
Pansyappan, R, BSc	Lectr
Srinivasan, C, MSc	Lectr.
Ramachandran, S, BSc	Demr
Pandurangan, T., BSc	Demr

Commerce

Ramachandran, N, BA BL <i>Madr</i>	Reader
Ramalingam, N, BA	Lectr
Gopalakrishnan, K, BCom	Lectr
Lakshmirathan, A, MA BCom	Lectr
Gnanaprakasam, M K., BA	Lectr
Bakthavatsalu, B., BA, FCA	Auditor
Mani, P. L, MA(Com)	Lectr
Varadarajan, B., BCom	Lectr.

Dravidian Philology

Shanmugam Pillai, M, MA MLitt	Reader
Ganeshsundaram, P C, BSc PhD	Reader
Radakrishnan, R, MA	(on leave) Lectr
Kushalappa Gowda, MA	Lectr
Balakrishnan, BSc BA	Lectr

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Mahadeva Sastri, MA (on leave) Lectr
 Shanmugam, S. V., BA Lectr, Res. Asst
 Sundaresa Vandayar, V., Vidwan Res Asst

Economics

Sonachalam, K. S., MA Prof
 Meenakchi Tyagarajan, Miss, PhD *Kanar*, Reader
 MA MLitt
 Ramaswami, A., MA MLitt PhD (on leave) Reader
 Subbiah, A., MA Lectr
 Balasubramanian, M., MA Lectr
 Madhavan, M. R., BA (on leave) Lectr
 Sabapathy, T., MA Lectr
 Sivaprakasam, S., BA Lectr
 Thiagarajan, K. R., BA Lectr
 Manikkam, P. L., BA Lectr
 Sankaramalingam, R., MA Lectr

Education

Ramanujachari, R., MA Prof.
 Ramachandran, J., MA LT MED *Madr* Lectr
 Rajagopalan, S., MA BT (on leave) Lectr
 Srinivasa Rao, R., MSc *Nag*, BT *Madr* Lectr.
 Thangiah, Rosebella, MA BT Lectr

Engineering, see below

English

Duraswami, M. S., MA Prof
 Subrahmanya Ayyar, A. C., MA Addtl Prof
 Myler, C. R., MA Reader
 Sethuraman, V. S., MA PhD Lectr
 Gopalakrishnan, G., MA Lectr
 Sitaraman, M. V., BA Lectr
 Subramanian, S., BA Lectr
 Satchidanandam, V., BA Lectr
 Sitaramiah, K. B., MA Lectr
 Ganapathy, R., MA Lectr
 Subramanian, N., BA Lectr
 Veerappan, N., BA Lectr
 Jayaraman, J., MA Tutor
 Vairavanathan, S. B. A., LT *Madr* Tutor
 Arunachalam Pillai, T. S., BA LT *Madr* Tutor
 Kuppuswami Ayyar, R., MA LT *Madr* Tutor
 Rajamani, S. I., BA LT *Madr* Tutor
 Govindaswami Pillai, T. D., MA LT *Madr* Tutor
 Irudayam Pillai, C., MA LT *Madr* Tutor
 Singaravelu Mudaliar, V., BA LT *Madr* Tutor
 Narasimharaghavan, S., BA LT *Madr* Tutor
 Muthukrishnan, S., BA LT *Madr* Tutor
 Natesa Pillai, D. B. A., LT *Madr* Tutor
 Duraswami, S., BA LT *Madr* Tutor
 Velayya Mudaliar, C., BA BT Tutor

French and German

Tamby, T. P., BA Reader

Geology

Muthuswami, T. N., MA Prof
 Rajagopalan, N., MSc Lectr.

Narasimha Rao, P., MSc Lectr
 Sitaraman, M. S., MA Lectr
 Gnaneskahaian, R., BSc Lectr
 Lousnathan, S. I., BSc Lectr
 Arunachalam, D., BSc Lectr

Hindi, see Urdu and Hindi

History and Politics

Sathanatha Ayyar, R., MA Prof
 Krishnaswami, A., MA LT PhD Reader
 Srivirarayan Raja, P. K., MA *Yale*, MLitt (on leave) Reader
 Balasubramayan, D., MA (on leave) Lectr
 Gopalakrishnan, T. V., BA Lectr
 Baskaran, S., BA Lectr
 Tirugunanasambandam, S., MA Lectr.
 Govindaswamy, M. S., MA Lectr

Mathematics

Ganapati Ayyar, V., MA DSc Prof
 Sankaranarayanan, G., MSc PhD Reader
 Padma, Miss Narasimhachari, MA PhD (on leave) Reader
 Ganesan, N., BA Lectr
 Padmanabhan, K. S., MA Lectr
 Kannappan, P. L., BSc Lectr
 Unni, K. R., BA (on leave) Lectr
 Balakrishnan, R., BSc Lectr
 Sekkappan, R., BSc Lectr
 Sundararaman, D., BSc Lectr
 Balakrishnan, P., BSc Lectr.
 Meenakshi, Miss V. R., BSc Lectr

Music

Dandapani Desigar, M. M. Prof
 Rajamanickam Pillai (Violin) Addtl. Prof.
 Gomati Sankara Ayyar, V. S. (Vina) Lectr
 Vajravelu Mudaliar, M. P. (Vocal) Lectr
 Sivasubrahmanya Pillai, T. N. (Vocal) Lectr
 Gowri, Miss M. Gagavanna Naidu (Vina) Lectr
 Rajagopi Pillai, M. S. (Vocal) Lectr
 Ramadas Rao, T. S. (Mridangam) Lectr
 Rangachari, T. K. (Vocal) Lectr
 Subramania Mudaliar, M. (Tevaram) Lectr
 Sambandam Pillai, T. S. (Violin) Lectr

Painting

Madhava Menon, K. Artist

Philosophy

Adinarayan, S. P., MA PhD *Lond* Prof.
 Jesudas, D. I., MA MLitt Reader
 Ramalingam, C., MA Lectr
 Swaminthan, K., MA LLB Lectr
 Kolappa Pillai, R., MA Lectr

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Shanmugasundaram, S., BA Prof.
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 Sabapathy, V., BSc MA *Ban*. Lectr
 Venkataratnam, E., BSc Lectr.

Kalyanasundammal, Mrs Chinnaswamy,
- BA Lectr
Sethumadhava Rao, V S, BSc (on leave) Lectr
Ramanathan, P R, BCom Lectr

Physics

Visvanathan, R K, MA Reader
Raghavachari, I V V, DSc Reader
Somasundaram, V, MA MSc Reader
Sriraman, S, MA MSc PhD Reader
Vyayareghavan, K, MA MSc Lectr
Visweswaran, K, MA Lectr
Tiruganasambandam, P, MA PhD (on leave) Lectr.

Swetarenyam, S, MSc Lectr
Jagatheesan, S, MSc Lectr
Padmanabha Pillai, S, MSc Lectr
Sethianandan, K, MSc Lectr
Rajamanickam, K, BSc Lectr
Krishna Pillai, M G, MSc Ban Lectr.

Shanmugasundaram, V, BSc (on leave) Lectr
Sabesan, R, BSc Demr

Sanskrit

Venkateswaran, C S, MA PhD Siromani Prof.
Subramanian Sastriar, V, Siromani Lectr
Srinivasachariar, K, Siromani Lectr
Guruswami Sastriar, R., Siromani Lectr
Seshadri Acharya, V K, BOL MA Vidwan Siromani Lectr
Natarajan, M, MA Lectr.

Sociology

Cornelius, Miss Mercy, MA Col., MSc EdD Mich, BA LT Prof
Srinivasamurthy, C. V, MA MEd Madr. Reader
Gomathunayagam, V, MA Lectr
Santhanam, P V, MA Lectr
Ramanathan, M, BA BED Demr.

Statistics

Rangaswami Ayyar, K., MA MSc PhD Prof
Ramasubban, T A, MA PhD Lond. Reader
Gnanakann Thangiah, S, MA Lectr
Nandagopal, V R, MSc Lectr
Nagarajan, T C A G, MSc Lectr
Karuppan Chetty, V R, BSc Lectr
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Richard, J, BSc Demr

Tamil Arts

Meenakchisundaram, T. P., MA BL MOL Prof.
Ramaswami, A, MA LT Madr. Lectr
Annammalai, M., MA Lectr
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Vaithilingam, S, BA Lectr
Tirunavukarasu, S, BA Lectr
Dandapani Desigar, S, Vidwan Lectr
Arunachalam, P, Pulavar BOL Lectr
Annammalai, E, BA Lectr.
Thinnappan, S P, BA Lectr.
Damodaran, G., MA Lectr., Res. Asst

Q 2

Ramalingam, N, Vidwan Tutor
Meyyappan, B A Tutor

Tamil (Oriental)

Ramanathan Chettiar, L. P. K., Vidwan Pandita Prof
Arunachalam Pillai, M, Vidwan Reader
Somasundaram Pillai, V M, Vidwan Lectr.
Chintamani, K N, BOL MA BSc Lectr
Muthuswami Pillai, M, Vidwan Lectr.
Rajagopalan, N, BSc MA BT Lectr.
Lakshmanaswami, K., BOL Lectr
Natesa Mudaliar, A, Vidwan Lectr
Uлага Oozhian, Vidwan Lectr
Jayaraman, V, MOL Lectr.
Alagappan, A R, BA Lectr.
Shanmugham, S, BA Lectr, Res Asst

Tamil (Research)

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Devaneya Pavanar, G, MA Vidwan BOL Reader
Vellaivararam, K., Vidwan Lectr
Ramanuja Aryengar, T K Lectr
Govindaswami, M, BOL Lectr
Venkataraman Chettiar, S, Vidwan Lectr
Ramanujachari, P S, Siromani Lectr
Sivaprakas Desigar, N, Vidwan Lectr., Res Asst.

Urdu and Hindi

Rasool, S G, Adib-i-Fazil Pravenna Madr.
(Hindi) Lectr

Zoology

Govindan, P, MA PhD Mich Prof.
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Sankaramurthy, Miss. Ponnammma, BSc (on leave) Lectr
Srinivasan, K, BSc Lectr
Swaminathan, S., BSc Lectr
Annammalai, S, BSc Lectr.
Muthukaruppan, V R, BSc Lectr
Durairaj, G, BSc Lectr
Sundararajan, S, MA BEd Lectr
Chandrababu, S, BSc Demr.
Kunchitapatham, A., BSc Demr

ENGINEERING**Civil Engineering**

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Kannan, M, BE Reader
Sethunaryanan, R. M, DIC, MS(Eng) Lond, BE Reader
Suryanarayana, D., BE Reader
Kunjithapatham, V, BSc BE Reader
Srinivasan, K, BE Reader
Mallappan, S M, BE Reader
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Murugesan, K, BE MTech (on leave) Lectr.
Madhavan, K., BE Lectr.
Achyuthan, K., BE Lectr.
Krishnaswami, M., BE Lectr.

Kannan, J., BE
Vallappan, P. L., BE
1 Draughtsman, 1 Lab Asst

Lectr
(on leave) Lectr.

Kannappan, S., BE (on leave) Reader
Vaidyanatha, P. V., BE (on leave) Lectr.
Durairajan, P. W., BE (on leave) Lectr.
Sathakku, S., BE Lectr.
Ayyaswami, R., BE Lectr.
Nagarajan, R., BE Lectr.
Govindan Kutty, K. P., BE Lectr.

Electrical Engineering

Balasundaram, V., MA Reader
Rajagopalan, T. R., MSc(Eng) *S'ion*, MA Reader
Parthasarathi, G., MA (on leave) Reader
Balachandran, T., BE Reader
Agoram, G., BE (on leave) Lectr.
Annemalai, N., BE (on leave) Lectr.
Kerthasasathi, K., BE Lectr.
Chidambaram, C. T. R., BE Lectr.
Franklin, Rajiva, BE Lectr.
1 Draughtsman, 1 Lab Asst

General

Rangachari, S., MA (on leave) Lectr.
Srinivasaraghavan, N., MSc Lectr.
Jeyarajan, P. A., BSc Lectr.
Govindarajan, M. S., BSc Lectr.
Sambasivam, S., MA MSc Lectr.
Ponnuswami, S., BSc Lectr.
Varadachari, R., MSc PhD Lectr.
Thiruvengadathan, S., BSc Demr.
Ramanamorthy, V., BSc Demr.
Arumandam, D., BA LT *Madr* Tutor
Thiruvengada Namar, S., BA LT *Madr* Tutor

Mechanical Engineering

Paul, Lt-Col S., BE Prof., Hd of Dept
Rajaram, C., BA BE * Prof.
Murthuveerappan, V. R., BE (Workshop) Reader
Sarasvaperumal, V., BE Reader

Technology

Palaniappan, N. P., MSc MScTech *Manc* Prof.
Lakshminanan, S., PhD *Lond*, MSc(Tech) Addnl Prof.
Adivarahan, P., BSc BSc(Tech) *Madr* (on leave) Reader
Alagaraswami, V., BSc BSc(Tech) *Madr* Reader
Ramalingam, M., BE Reader
Shanmuganathan, S. P., PhD (on leave) Reader
Ramaswami, P. L., MA Reader
Bhimeswara Rao, P., MSc(Tech) *Madr* (on leave) Lectr.
Nallaperumal, U., BE(Chem) (on leave) Lectr.
Rangarajan, S., BE(Chem) MSc (on leave) Lectr.
Bairavan, R., BE(Chem) Lectr.
Andiappan, A., BE(Chem) Lectr.
Balasubramanian, V., MSc Lectr.
Palaniappan, D., BE Lectr.
Mohanaragabashyam, K. S. R., MA Lectr.
Natarajan, N. M., BE(Chem) MSc Lectr.
Ramakrishnan, T., BE Lectr.
Subbarayan, P., MSc Lectr.
Manikkam, K., BE(Chem) Lectr.
Harthasubramanian, S., BSc Demr.
Govindaswami, S., BSc Demr.
Ranganathan, R., BE(Chem) Demr.
Rajagopalan, N., BSc Demr.
Velu, P., BE(Chem) Demr.

ADMINISTRATIVE AND OTHER STAFF

WARDENS OF HOSTELS Arts and Sci., V.
Balish, MSc PhD *Stan.*; Engin and Technol.,
C. Rajaram, BA BE

RESIDENT MEDICAL OFFICERS. D. A. D. Nath,
DM&S *Calc* (on leave), S. Rajaram

GENERAL INFORMATION

As the result of an offer by Rajah Sir S. R. M. Annamalai Chettiar of Chettinad to transfer to a residential teaching univ., if one were founded, the Sri Minakshi Coll. for higher instructn. in English, the Sri Minakshi Tamil Coll. and the Sri Minakshi Sanskrit Coll. which he had established and maintained, together with an endowment of Rs. 20 lacs, the govt of Madras passed an act in 1928 accepting the offer and providing for the establ. of Annamalai Univ. Govt. also provided Rs. 27 lacs towards the endowment fund, a recurring grant of 1½ lacs a yr., and, subject to conditions agreed between govt. and the univ., a sum of 7½ lacs for bldg. and equipment. The annual recurring grant is now Rs. 709,000.

The univ. is a unitary teaching univ. with no affiliated colls.

CONSTITUTION The authorities of the univ. are the senate, academic council, facs, bds of studies, syndicate, finance cttee and bd of selection. The chancellor, pro-chancellor, vice-chancellor, senate, academic council and syndicate constitute the body corporate of the univ. The vice-chancellor, who is the principal executive officer, holds office for 3 yrs., and is apptd. by the chancellor on nomination of the founder.

LIBRARY 137,061 vols

LABORATORIES Agric., bot., chem., engin. & technol., geol., phys., zool., with workshops and arrangements for practical work for all students.

FACULTIES AND DEANS Arts, Prof. K. S. Sonachalam (econ.), *educn.*, Prof. R. Ramanujachari; *engin & technol.*, Prof. S. Paul (mech.)

engin). *fine arts*, Prof. M. M. Dandapani Desigar (music); *oriental studies*, Prof. L. P. K. Ramanathan Chettiar (Tamil), *sci.*, Prof. K. Rangaswami Ayyar (stats).

ADMISSION Holders of approved sch. leaving certs. may be admitted to a course of study in the univ. Exams. of all statutory Indian univs. are recog. for purposes of admission.

PRE-UNIVERSITY COURSES in arts and sci. extend over 1 yr. after secondary sch. or matric exam. of an Indian univ. or equivalent exam. Pre-professional courses for admission to BE, BSc(Ag) and BE(Chem) courses extend over 1 yr. after the pre-univ. course.

FIRST DEGREES 3 yrs. after pre-univ. course—BA, BSc, BOL, BMus, BCom, BSc(Ag), 4 yrs. after pre-professional course—BE, BE(Chem).

HIGHER DEGREES 2 yrs. postgrad.—MA, MSc in bot., chem., geol., phys., stats., zool., agric. engin., pub. health engin., struct. engin., MCom, MOL, BEd, MLitt, MSc(Ag), 2 yrs. after approved master's degree—PhD, 1 yr. after PhD, or 2 yrs. after MLitt or MSc—DLitt, DSc.

DIPLOMAS Titles in oriental learning (Vidwan, Pulevar and Siromani) and oriental music (Sangita Bushana), 4 yrs.' course in each case. Dipls. in French, teaching Tamil, teaching Sansk., 1 yr., dipl. in drawing & painting, 3 yrs., dipl. in elocution & drama, 2 yrs.

CERTIFICATES French, German, Kanada, linguistics, Malayalam, Tamil music, Telugu, 1 yr. course in each case.

RESEARCH facilities available in all depts. of facs. of arts, sci. and oriental studies leading to MLitt, MSc, PhD, DLitt or DSc. In the depts. of engin. and technol. res. may be undertaken for MSc.

FEES Tuition, per term pre-univ., Rs. 65, pre-professional, Rs. 100, BA, BSc, BCom, Rs. 75, BA (hons.), BSc (hons.), BCom (hons.), Rs. 90; BMus, Rs. 45, BE, BE(Chem), Rs. 100, oriental titles, Rs. 15, dipl. and cert. courses, Rs. 20. In addn., there are deposit and lab. fees.

ACADEMIC YEAR June to March. 3 terms. Term dates (approx.) June 15 to Sept. 23, Oct. 9 to Dec. 21, Jan. 4 to March 31.

USUAL LANGUAGE OF INSTRUCTION English.

TUTORIAL INSTRUCTION and disciplinary supervision for all students are provided by assigning about 15 students to each member of staff.

RESIDENCE (For wardens see 'Admin. and Other Staff', above.) Students are required to live in hostels attached to the univ. or in approved lodgings. Separate hostel with a lady warden for women students.

HEALTH A dispensary with an isolation ward is maintained for the benefit of students and staff. Phys. trg. is compulsory for all students, and weekly lectures on physiol., health and hygiene are delivered for their benefit.

GENERAL COUNCIL OF ASSOCIATIONS. Membership open to all students on payment of a fee.

'OPEN' RESEARCH AWARDS Studentships tenable 2 yrs., value Rs. 100 p.m. Fellowship tenable in India and abroad, value Rs. 125 p.m.

PUBLICATIONS. *Calendar* (publ. periodically), Rs. 5½; (annual) *Fac. Handbooks* (information about courses, syllabi, regns.), *Annual Report* (April), *Univ. Journal* (annual), Rs. 78; *Students' Handbook* (July), Rs. 1; *Students' Magazine* (March), Rs. 18.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS Bldgs. completed: postgrad. sci. block; lecture halls for agric. dept., improvements to lab. in agric. dept.

RESIGNATIONS G. Venkatanna (Engl.), G. A. Rego (Engl.).

HONORARY DEGREES DLitt—D. P. Subbarayan, union minister for transport and communications.

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	3291	63
Women	261	—
Total	3552	63

Distribution by Faculties Arts, 1051; educn., 101; engin. & technol., 1105; fine arts, 121; oriental studies, 219; sci., 955. Total: 3552.

Included in the figures above are —

Pte-University students, 395

Postgraduate students, 253

New admissions, 1371

Students from other countries, 19

DEGREES AWARDED (1959-60) MLitt, 3; MA, 166; BA (hons.), 115; BCom (hons.), 38; BA, 90; BCom, 51; DSc, 1; PhD, 3; MSc (res.), 4; MSc (exam.), 33; BSc (hons.), 90; BSc, 83; MOL, 2; BOL, 11; BE, 102; BE(Chem), 45; BEd, 62; BMus, 1.

DIPLOMAS AWARDED (1959-60) Teaching, 31; painting, 2. Titles in oriental learning: Pulevar, 37; Siddhanta Pulevar, 2; Sangita Bushana, 13.

BANARAS HINDU UNIVERSITY*

Founded 1916

Postal Address : Banaras 5, Uttar Pradesh, India

Cables and Telegrams : University, Banaras

Telephone 4339

VISITOR—THE PRESIDENT OF THE REPUBLIC OF INDIA (*ex officio*)

CHIEF RECTOR—H.E. THE GOVERNOR OF UTTAR PRADESH (*ex officio*)

CHANCELLOR—H.H. JAI CHAMRAJA WADIAR, Governor of Mysore

PRO-CHANCELLOR—H H. SHRI KARAN SINGH, Sadar-i-Riyasat, of Jammu and Kashmir

VICE-CHANCELLOR—Lt.-Col. N H. BHAGWATI, MA LLB

PRO-VICE-CHANCELLOR—M. C. BIJAWAT, BE Roor, BSc

TREASURER—J B GUPTA

REGISTRAR—Major S L DAR, MA LLB

LIBRARIAN—P. N KAULA, MSc

DEANS—ARTS—Dr V S AGRAWALA, MA PhD DLitt, LAW—Principal ANANDJI, LL.M DCL Yale;
MEDICINE AND SURGERY—Principal K N UDUPA, MSc Mich, FRCS Can, MUSIC AND FINE ARTS—
Dr. B R DEODHAR, BA, ORIENTAL LEARNING—Pdt. H B SHASTRI, SCIENCE—NANDLAL SINGH,
DSc; TECHNOLOGY—Principal J SINGH, PhD Wales; THEOLOGY—Principal VISHWANATH
SHASTRI

ADMINISTRATIVE AND OTHER STAFF

Provost Prof. M Sen Gupta, BSc Calc.,
BSc(Eng) CPE Glas Chief Proctor · R S
Choudhri, MSc PhD Corn, DSc. Sr Wardens
of Hostels : Ruya and Birla, Dr. Umesh Prasad,
MA PhD; Broacha and C. P. Ramaswamy Aiyar,
Dr Y. S R K Sharma, MSc, Dr Radha-
krishnan, Bhagwan Das and I. N. Gurtu, K N.
Nayak, LL.M, Morvi and Dhanrajgiri, D
Bhattacharya; Rajputana, Limbdi and S C De,
S L Jain, King Edward, Annie Besant and
Hostel No 1, D N Rao. Women's Hostels,
Dr. Buthika Mukherji. Chief Med Officer.
G S Singh, MB BS. Med Officers. R. M
Singh, B K Prasad, MB BS Manager, Univ.
Press Lakshmi Das. Executive Officer M
Prasad, BA DipILocalSelf-GovtAdmin All

Controller of Exams U V. Bhatt, PhD Sheff,
BSc(Met) Dep Registrar (Acad). K N. Lal,
DSc Dep. Registrar (Admin) R N Vyas,
BCom Accts Officer Ram Bahadur Khare,
BSc Special Officer J D Sanwal Asst
Registrar (Acad) · V L Nighoskar, BSc Asst
Registrar (Admin) S. Somaskandon, MA
Purchase Officer · P C Menon, BA Officer on
Special Duty (PWD). M L Singhal Executive
Engineer · B Gupta, CE Roor Executive
Engineer II M R. Komal. Internal Audit
Officer M S Kapoor. Dean of Students · S C
Das Gupta, MA. Dean of Students (Kamachha) ·
R. N. Bose, MSc. Dean for Women Students.
Dr P. C Dharma Information and Pub Rel-
ations Officer · S. P Tripathi, BA

CONSTITUENT COLLEGES OF THE UNIVERSITY§

[BA, BCom, etc., after the name of a coll means that courses are provided there for BA, BCom, etc.]

BHARATI MAHAVIDYALAYA (COLLEGE OF IN-
DOLOGY) (tel. 4382) 21 Teachers MA;
PhD; DLitt; dipl. in Indian philos. & culture.
Hds. of Depts. . ANC. INDIAN HIST., CULTURE, AND
ARCHAEOLOGY—A K Narain, MA PhD, ART AND
ARCHIT—V. S. Agrawala, MA PhD DLitt,
SANSKRIT AND PALI—S Kant, DPhil Oxon, MA
PhD, INDO-SUMERIAN STUDIES— . . ; INDIAN
PHILOS AND RELIGION—N. K. Dwivedya, MA PhD

CENTRAL HINDU COLLEGE (tel. 2878) 112
Teachers. BA, BCom, MA, MCom, PhD,
DLitt, dipls in German, French, Hindi,
Chinese, clin psychol, cert in statistical
method Hds. of Depts PHILOS—T R V
Murti, MA DLitt, HIST—R S. Tripathi, MA
PhD Lond, ENGL— . . , POL—K. L.
Verma, MA; MATHS—Brij Mohan, MA DSc,
ECON.—A S. Raghuri, MA DPhil All, PhD

* Member of the Association of Universities of the British Commonwealth

§ Postal Address, unless otherwise stated. Banaras Hindu University, Banaras 5, Uttar Pradesh, India

Harv (Actg), HINDI—J P Sharma, MA DLitt; GEOG—R L Singh, MA PhD Lond, COMM.—S. K. R. Bhandari, MCom LLB PhD Luck., PERSIAN AND ARABIC—, PSYCHOL.—..

CENTRAL HINDU COLLEGE (KAMACHHA SECTION) (Postal Address Kamachha, Banaras, India; tel. 3528) 62 Teachers Pre-Univ courses in arts and sci., pre-professional courses in agric and med, 1st yr of integrated course in technol Principal—R N Bose, MSc (Actg)

COLLEGE OF AGRICULTURE (tel. 2838). 25 Teachers. BSc(Ag), MSc(Ag), PhD; DSc. Principal—J. Singh, PhD Wales

COLLEGE OF MEDICAL SCIENCES 32 Teachers ABMS; MB BS. Hds of Depts. AYURVEDA—Pdt. R. Dutt Shastri, Ayurveda Shastracharya, SURG—Principal K. N. Udupa, MSc Mich, FRCSCan.

COLLEGE OF MINING AND METALLURGY (tel. 2627) 27 Teachers. BSc(Min); BSc(Met), MSc(Min); MSc(Met), PhD, DSc Hds of Depts METALL—Principal D Swaiup, BSc (Met) PhD Sheff, MINING—Prof M P Netra-wala, BSc(Min MSc(Geol) MEM Colorado, ScD M.I.T.

COLLEGE OF SCIENCE (tel. 2876) 121 Teachers BSc, MSc; PhD, DSc, dipl in spectroscopy Hda of Depts CHEM—G. B. Singh, MSc MA PhD Harv, PHYS—A. R. Verma, MSc PhD Lond, MATHS—Bry Mohan, MA DSc, BOT—R. D. Misra, DSc, ZOOL—S. P. Roy Choudhry, MSc PhD, FNI, GEOG—R. L. Singh, MA PhD Lond, SPECTROSCOPY—N. L. Singh, DSc

COLLEGE OF TECHNOLOGY (tel. 2949) 34 Teachers BSc(ChemEng); BPharm; MPharm; MSc(Glass), MSc(Cer), PhD, DSc. Hds. of

Depts CHEM ENGIN AND TECHNOL—S. P. Pathak, MSc PhD Lsu; PHARMACEUTICS—Principal N. K. Basu, MSc DPhil; SILICATE TECHNOL—H. N. Roy, CertEngin Alfred (Actg)

ENGINEERING COLLEGE (tel. 2938) 74 Teachers BSc(Eng) in electr, mech, civil & municipal engin and design, MSc(Eng) in electr mech, PhD; DSc Hds. of Depts ELECTR. ENGIN—Principal M. Sen Gupta, BSc Calc, BSc(Eng) CPE Glas, MECH ENGIN—V. M. Rane, BSc(Eng), CIVIL AND MUNICIPAL ENGIN—Prof S. S. Gaurala, BSc(Eng) MSinCE Tennessee.

KALA SANGITA BHARATI (COLLEGE OF MUSIC AND FINE ARTS) 16 Teachers. Adm. cert in music; dipl in music, BMus, MMus, DMus, BTM, dipls (jr and sr) in painting and sculpture Principal—Dr B. R. Deodhar, BA.

LAW COLLEGE 10 Teachers. LLB, LLM Principal—Anandji, LLM DCL Yale

SANSKRIT MAHAVIDYALAYA (COLLEGE OF ORIENTAL LEARNING AND THEOLOGY) 30 Teachers Madhyama, Shastri—Karan Kand Shastri, Acharya, Chakravarty, Vachaspati, dipl. in Paurohitya Ratna Principal—Pdt Vishwanath Shastri Hda of Depts . SAHITYA AND VYAKARANA—Pdt H. B. Shastri (Actg), DARSHAN—Pdt H. B. Shastri, THEOL—Pdt R. N. Dikshit, JYOTISH—Pdt. H. B. Shastri; MIMANSA AND DHARMA SHAstra—Pdt V. Shastri.

TEACHERS' TRAINING COLLEGE (tel. 2982). 17 Teachers BED, MED; PhD; DLitt. Principal—P. B. Rozdon, BA PhD Edm

WOMEN'S COLLEGE (tel. 2906) 48 Teachers. Pre-univ courses in arts and sci, BA, BSc Principal—Miss P. C. Dharma, MA LT DLitt

AFFILIATED LOCAL COLLEGES

(Postal Address Banaras, Uttar Pradesh, India)

ARYA MAHILA DEGREE COLLEGE. 9 Teachers. BA. Principal—S. B. Pai, MA BT.

BERANT COLLEGE (tel. 2717) 12 Teachers. Pre-Univ. courses in arts and sci Principal—J. P. Srivastava, BSc BT

D.A.V. COLLEGE (tel. 4058) 16 Teachers

Pre-Univ course in arts; BA; BCom Principal—Krishnanand, MA

VASANTA COLLEGE FOR WOMEN (tel. 2256) 11 Teachers Pre-Univ course in arts; BA. Principal—Miss Subhada Telang, MA.

VASANT KANYA MAHAVIDYALAYA. 13 Teachers. BA. Principal—Leela Sharma, MA.

GENERAL INFORMATION

The univ. is open to persons of either sex and of any race, creed, caste or class. It was incorporated in 1915; the Central Hindu Coll, fully equipped, already existed, and the work of the univ began in 1916. The univ has since been removed to a magnificent site of 1300 acres

The objects of the univ., which is teaching and residential, are to promote the study of the Hindu Shastras and of Sanskrit lit generally as a means of preserving and popularizing the best thought

and culture of the Hindus, to promote learning and res. in arts and sci. in all branches, and to advance professional knowledge, as is best calculated to help in promoting indigenous industries and in developing the material resources of the country.

CONSTITUTION The court, the advisory body of the univ., includes *ex-officio* members, persons nominated by the visitor, members of parliament

nominated by the speaker of the House of the People and by the chairman of the council of states, and men of standing in public life nominated by the visitor. The academic council, the supreme academic body, includes the vice-chancellor, pro-vice-chancellor, principals of colls. and hds. of teaching depts., 4 profs. who are not hds. of teaching depts., deans of facs, the provost, chief proctor, librarian, 4 teachers of the univ. elected from among themselves, and 6 persons, not employees of the univ., co-opted by the academic council. The executive council and the standing ctee. of the academic council are the executive bodies of the univ. and the academic council respectively.

LIBRARY 410,000 vols., housed in the Sayaji Rao Gaikwad library

LABORATORIES, ETC. Chem., phys., bot., zool., geol., geog., geophysics, spectroscopy, stats, psychol., agric., silicate technol., pharmaceuticals, mining, metall., indust. chem., glass, ceramics, chem. engin., radio-communication, electr., mech., civil and municipal engin. An automobile repair-shop and a power-house are also attached to the Engineering Coll.

An extensive hot garden, an Ayurvedic garden and agric. farms are maintained for the study of plants, herbs and crops.

ADMISSION Candidates who have passed the admission exam. or an equivalent exam. are admitted to pre-univ. courses in arts and sci.

For admission to pt. I of the 3-yr BA and BCom courses, candidates must have passed pre-univ. exam. in arts/sci. of this univ. or equivalent exams., for admission to pt. I of the 3-yr BSc course, candidates must have passed pre-univ. exam. in sci. of this univ. or equivalent exams., pt. II of BA, BCom and BSc courses is open to candidates who have passed pt. I BA, BCom and BSc or IA, ICom and ISc exams. of this univ. or equivalent exams.; for admission to courses of MA, MCom and MSc, candidates must have passed BA, BCom and BSc exams. of this or other recog. univs.; for admission to LLB and BEd, min. qualifs. are BA, BSc and BCom, no candidate can be admitted to courses of LLM and MEd unless he has passed LLB and BEd exams. Admission to 1st yr. of integrated courses in technol. and bachelor degrees in engin., mining, metall., pharm. is open to candidates who have passed pre-univ. exam. in sci. of this univ. or equivalent exams., for admission to 2nd yr. of integrated course in technol., min. qualifs. are 1st-yr. exam. of 5-yr. integrated course in technol. or pre-engin. or pre-professional exams. in technol. or engin., or ISc, or BSc pt. I of 3-yr. degree course or equivalent exams.; for admission to postgrad. courses in engin., mining, metall., pharm., min. qualifs. are BSc(Engg.), BSc(Min), BSc(Metall.), BPharm. of this or other recog. univs. Candidates seeking admission to pt. I of integrated courses in agric. must have passed pre-univ. exam. in sci. of this univ. or equivalent exams.; pt. II exam. in agric. open to candidates who have passed ISc of

this univ. or equivalent exams. and have studied subj. prescribed for pt. II exam. for at least 1 yr. at this univ., open also to those who have passed pt. I exam. of integrated courses in agric., MSc (Ag) open to candidates who have obtained BSc(Ag) of this univ. or equivalent. For admission to pre-professional course in med., candidates must have passed pre-univ. exam. in sci. of this univ. or equivalent exams.; for admission to course leading to MB BS, min. qualifs. are ISc or pre-professional (med.) exams. of this univ. or equivalent exams. Admission to courses of Sansk. studies in the facs of oriental learning and theol. is restricted to Hindus, candidates who have passed the Praveshika in Sansk. or an equivalent exam. are admitted to the course of Madhyama Prksha, for higher degrees in Sansk., students are required to pass successive exams. of Sansk., learning Madhyama, Shastris, Acharya and Chakravarty. Min. qualifs. for admission to course for cert. in music is matric. or equivalent and/or aptitude for music, for admission to courses of dipl. in music, BMus, MMus, DMus, BTM, in the fac. of music and fine arts, min. qualifs. are cert. in music, dipl. in music, BMus, MMus, BMus, respectively or equivalent qualifs.

FIRST DEGREES. 1 yr.—BTM, pre-univ. courses in arts and sci., pre-professional course in med., 2 yrs. after inter or 3 yrs. after pre-univ.—BA, BSc, BCom, 2 yrs.—BMus, 4 yrs.—BSc (Ag), BPharm., 5 yrs.—BSc(Min), BSc(Metall.), BSc(SilicateTech), BSc(ChemEngin), BSc(Eng), ABMS; 6 yrs.—MB BS

ORIENTAL TITLES Shastracharya, Shastris, Madhyama, 3 yrs., Chakravarty, Vachaspati Theology, Vedacharya, Ved Shastris, Karam Kand Shastris, Madhyama, Paurohit Ratan, 3 yrs.; Chakravarty, Vachaspati

HIGHER DEGREES. 1 yr.—1st-yr. integrated course in tech., pt. I of integrated course in agric., BEd, MEd (after BEd), MSc(Cer), LLM (after LLB); 1½ yrs.—MSc(Eng) in electr. machine design, 1½ yrs.—MPharm, MSc(Min), MSc(Met); 2 yrs.—LLB, MA, MSc, MSc(Ag), MCom, MMus, DMus, PhD, DLitt, DSc

DIPLOMAS Paurohitya Ratna, 3 yrs.; mod. European langs., music, painting, sculpture, Chinese, Indian philos. & culture, 2 yrs., clin. psychol., library sci., spectroscopy, Hindi, 1 yr.

CERTIFICATES (Usually 1-yr. course.) Statistical methods, Bengali, Tamil, Telugu, Gujarati.

FEES For dipl. courses (p a) • Hindi, Rs. 10, German, French, Chinese, Rs. 20, painting, sculpture, Rs. 72; clin. psychol., Rs. 80, spectroscopy, Rs. 60. For cert. courses: Bengali, Tamil, Telugu and Gujarati, Rs. 10; statistical methods, Rs. 20.

FEES (p a) for pre-univ. arts and sci., Rs. 80 each; BA, BSc and BCom (pts. I, II and III), Rs. 120 each, MA and MCom, Rs. 140, MSc, Rs. 145; res., Rs. 125; 1st-yr. integrated course in tech., Rs. 120; pt. II of integrated course in engin., Rs. 230, 3rd, 4th and 5th yrs. of integrated

courses in electr, mech and civil engin, Rs 230 each, MSc(Eng), Rs 260 for both yrs, pts II and III of integrated course in mining and metall, Rs 230 each, pts IV and V of integrated course in mining and metall, Rs 240 each, MSc in mining and metall, Rs 260 for both yrs, law (previous), Rs 120, law (final), Rs. 120, LLM, Rs 150, pre-professional course in tech, Rs 230, pts I and II of integrated course in chem engin, Rs 220 each, 3rd, 4th and 5th yrs. integrated courses in pharm, Rs. 230 each, pre-professional course in med., Rs 120; MB BS, pts I, II and III, Rs 200 each, pt I of integrated course in agric, Rs 120; pts II, III and IV of integrated course in agric, Rs 180, MSc(Ag) (previous), Rs 220, MSc(Ag) (final), Rs 200, MSc (glass, ceramics, ind chem), Rs 200, MPharm, Rs 260 for both yrs, BEd, Rs 150, MEd, Rs 200, Adm cert in music, Rs 24, dipl. in music, Rs 64, BMus, Rs 96, MMus, Rs 120; fine arts section, Rs 72, library dipl., Rs 90.

In the Sanskrit Mahavidyalaya no hostel or coll fee is charged

ACADEMIC YEAR July to April 3 terms
Term dates (approx) July 10 to Oct 14, Nov 13 to Dec 31, Jan 3 to April 30

USUAL LANGUAGES OF INSTRUCTION Hindi and Engl; in some classes, Engl only, in oriental studies, Hindi and Sansk.

RESIDENCE AND COST OF LIVING Each student must reside in a univ hostel, or, if he is a student of a constituent coll, in a coll hostel, unless allowed by the vice-chancellor or the pro-vice-chancellor to reside with his parents or guardians under prescribed conditions. Most students live

in hostels under the supervision of the senior wardens and wardens. There are 14 hostels on the univ grounds, accommodating over 3000 students, and 3 more in the city, accommodating nearly 350 students, all under the management of a warden, sr wardens, the provost and the dean of students. There are qualified med officers. The cost of living, incl tuition fees, varies from Rs 70 to Rs. 125 per month, according to fac. Students of the Coll of Oriental Learning and Theol are charged no fees for lodging, light and service.

INTERNATIONAL HOUSE Bungalow for foreign students Warden R. S Choudhury, MSc PhD
Corn, DSc

INFORMATION BUREAU. Assists students from India and abroad with information about admission to the constituent colls. and hostels of the univ. and about educn facilities available in the univ.

ATHLETIC ACTIVITIES The univ athletic assocn organizes univ games and sports. Inter-coll games and univ sports are arranged every yr. Individual colls through their athletic assocns. provide facilities for all outdoor games, and hostels organize all indoor games. P.T compulsory for pt. I of 3-yr BA, BSc and BCom courses.

MILITARY TRAINING N.C.C. trg has been made compulsory for all new entrants.

PUBLICATIONS *Prospectuses* (annual) of exams in the various facs, *Annual Reports*, *Scientific Res Journal* (quarterly), *Univ Magazine* (quarterly), *BHU Gazette* (weekly), *Calendar* (the latest is dated 1958)

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	6276	—
Women	699	—
Total	6975	—

Distribution by Faculties Arts, 2988, law, 312, med & surg., 267; music & fine arts, 208, oriental learning, 182, sci, 1163, technol, 1766, theol, 89 Total 6975.

Included in the figures above are —

Postgraduate students, 1565.

New admissions, 3711.

Students from other countries, 88 (Country from which largest number came Nepal, 68)

DEGREES AWARDED (1960) BA, 1103, MA, 782; BEd, 11, MEd, 9, BSc, 270, MSc, 124, BCom, 259, MCom, 42, MSc(IndChem), 9, BSc(ChemEngg), 32, BPharm, 18; MPharm, 7, BSc(Glass&Cer), 1, MSc(Cer), 1, BSc(Ag), 71, MSc(Ag), 25, BSc(Min), 21, BSc(Met), 36, BSc(ElectrEngg), 28, BSc(MechEngg), 64, BSc(Civil&MuniEngg), 45; ABMS, 34, LLB, 122, LLM, 1, BMus, 6, MMus, 3, PhD, 21, DSc, 16

ORIENTAL TITLES AWARDED (1960) Shastri, 15; Acharya, 9.

MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA*

Founded 1949

Postal Address Baroda 2, Gujarat State, India
Cables and Telegrams . University, Baroda
Telephones . Registrar, 2721 ; General, 2238, 2442

CHANCELLOR—HIS HIGHNESS THE MAHARAJA GAEKWAR OF BARODA
VICE-CHANCELLOR—J. M. MEHTA, MA Oxon., PhD Lond
PRO-VICE-CHANCELLOR—C. S. PATEL, BA MSc Bom., PhD Leeds
REGISTRAR—B. K. ZUTSHI, MA LLB Luck.
DEPUTY REGISTRAR—B. M. NANAVATY, BA Bom., DEED

TEACHING STAFF

Accountancy			
Chokshi, M. M., BCom, CA	Reader	Modi, V. V., MSc PhD <i>Liv.</i>	Reader
Gandhi, H. M., MCom	Lectr.	Shah, V. K., MSc	Lectr.
Dharma, K. M., MA BCom	Lectr.		
Mehta, K. C., BCom, CA	Lectr.	Botany	
Shah, G. R., MCom	Lectr.	Chavan, A. R., BSc PhD <i>Nebraska</i>	Prof.
		Pathak, C. H., MSc PhD <i>Minn.</i>	Reader
		Gaekwad, L. K., MSc	Lectr.
		Mehta, A. R., MSc	Lectr.
Agricultural Economics		Deshmukh, Y. S., MSc	Lectr.
Desai, M. B., MCom PhD	Prof.	Padate, S. N., MSc	Lectr.
Venkatraman, L. S., MA PhD	Reader	Sabnis, S. D., MSc DipMus	Lectr.
Applied Arts and Crafts			
Pancholi, B. N.	Reader	Business Administration	
Patel, J. D.	Reader	Asthana, G. P., MCom	Reader
Patel, H. R.	Lectr.		
Sant, N. K., BA(Fine)	Lectr.	Business Organization	
Trivedi, V. P., BA(Fine)	Lectr.	Pandya, R. D., MCom DipBanking	Lectr.
Archæology			
Subbarao, B., MA LLB PhD	Prof.	Chemistry	
Mehta, R. N., MA PhD	Reader	Sethna, S. M., MSc PhD	Prof.
Malik, S. C., DipPrehistoricArchæol Lond,	Reader	Mehta, C. M., MSc PhD	Reader
MSc	Reader	Dave, J. S., MSc PhD <i>Lond.</i>	Reader
Patel, A. C., MSc	Lectr.	Shah, C. J., MSc	Lectr.
Eapen, J., MSc	Lectr.	Shah, M. J., MSc	Lectr.
Bhagwansingh, S., MA	Lectr.	Godbole, A. N., MSc	Lectr.
Hedge, K., BSc MA	Lectr.	Lele, S. S., MSc	Lectr.
		Shah, M. M., MSc	Lectr.
Banking		Salvi, N. P., MSc	Lectr.
Shah, B. G., MCom	Prof.	Parikh, N. K., BSc BSc(Tech)	Lectr.
Pandit, R. B., MBA AM <i>S. Calif.</i> , BCom	Lectr.		
Biochemistry		Commerce	
Ramkrishnan, C. V., MSc PhD	Prof.	Dholakia, H. L., BCom PhD	Reader
		Desai, H. B., MCom	Lectr.

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Co-operation		Mehta, R. N., BA <i>Leeds</i> , MA LLB	Reader
Naik, K. N., MA PhD	Reader	Mahulkar, D. D., MA	Reader
Elavia, Mrs Behroz H., MCom	Lectr.	Tilak, Mrs Kamala, MA	Lectr.
Cotton Industry		Salgaonkar, V. D., MA LLB	Lectr.
Venkataraman, K. S., MA PhD BL	Reader	Desai, J. D., MA	Lectr.
Dance		Joshi, Mrs. Sindhu N., MA	Lectr.
Khokhar, M. P., BA	Reader	Raval, R. R., MA	Lectr.
Tanjorikar, K. A.	Lectr.	Mehta, Miss Nileshvari C., MA	Lectr.
Katpitta, Miss Nargis, BA MMus	Lectr.	Chopra, Mrs. Kamala, MA	Lectr.
Merh, Mrs Anjali S., DipDance	Lectr.	Krishnamuthi, M. G., MA	Lectr.
Kathak, S. L.	Lectr.	Patel, P. G., MA	Lectr.
Dentistry, see Medicine		Sheshadri, C. K., MA	Lectr.
Dramatics		Bhatt, S. N., BA LLB	Lectr.
Mehta, C. C., BA	Hon. Prof.	Birje Patil, J. D., MA	Lectr.
Bhatt, R. P., BA	Lectr.	Kambale, B. S., MA	Lectr.
Bhatt, M. J., BMus	Lectr.	Fine Arts	
Economics		Doring, H. K.	Hon. Prof.
Gulati, I. S., MA PhD <i>Lond.</i>	Prof.	Chaudhary, N. N., BA DipArt	(Sculpture) Prof.
Shukla, D. K., MA PhD	Reader	Bendre, N. S., BA	(Painting) Prof.
Chokshi, H. P., MA	Lectr.	Kapadia, K. B.	(Sculpture) Reader
Majmudar, P. M., MA	Lectr.	Subramanian, K. G., DipArt	(Painting) Reader
Rajendrakumar, MA(Econ) <i>Mane.</i>	Lectr.	Barua, B. K., DipPottery	(Sculpture) Lectr.
Kothari, R. F., BSc(Econ) <i>Lond.</i>	Lectr.	Bhatt, G. K.	(Process) Lectr.
Modi, R. G., MA	Lectr.	Katpitta, F. N., MA(Fine)	(Painting) Lectr.
Sharma, J. N., MA	Lectr.	Bhatt, J. M., DipPainting	(Painting) Lectr.
Education		Pandya, R. M., BA(Fine)	(Painting) Lectr.
Patel, M. S., MA PhD TD <i>Lond.</i>	Prof.	Pandya, M. D., BA(Fine)	(Stone Carving) Lectr.
Lele, T. P., BSc EdB <i>St And.</i> , DipEd	Reader	Patel, H. R., DTC	(Woodcraft) Lectr.
Apte, D. G., MA BT MED	Reader	Joglekar, N. B., AM	(Lithography) Lectr.
Parikh, S. C., BA MED	Lectr.	Mehta, N. J.	(Photography) Lectr.
Shukla, N. N., BSc MED	Lectr.	Parimoo, R. K., MA(Fine)	DipMus (Art Hist.) Lectr.
Das, I. J., MA MED	Lectr.	Bhatt, G. C., DipSculpture	(Bronze Casting) Lectr.
Fernandes, H., BSc MED	Lectr.	Geography	
Amin, Mrs. Mandakini M., MA	Lectr.	Janaki, Mrs. Vengalil A., MA BLatt <i>Oxon</i>	Reader
MEd <i>Ohio</i> , BT	Lectr.	Gupta, C. M., MA MED	Lectr.
Thakar, R. S., MEd BT	Lectr.	Gollarkeri, R. S., MA	Lectr.
Sudame, G. R., BSc MA MED	Lectr.	Mishra, B. R., MSc	Lectr.
Parikh, R. G., MA MSc BT	Lectr.	Ghia, M. C., MSc	Lectr.
Shah, M. M., BSc MED	Lectr.	Dixit, K. R., MA	Lectr.
Bansiramanu, Mrs Manju, MS <i>Wtr</i> , BSc	Lectr.	Geology	
MA BED	Lectr.	Mehr, S. S., MSc PhD	Reader
Patel, J. J., BSc MED	Lectr.	Desai, S. D., MSc	Lectr.
Modi, J. J., MA BED	Lectr.	Majmudar, H. J., MSc	Lectr.
Educational Administration		Desai, P. J., MSc	Lectr.
Mukerji, S. N., PhD ColL, TD <i>Lond.</i> ,	Prof.	Vasi, N. M., MSc	Lectr.
DipEd <i>Dub</i> , MA BT	Reader	Gujarati	
Desai, D. M., BA PhD	Lectr.	Sandesara, B. J., MA PhD	Prof.
Drekar, S. M., BA BT MED	Lectr.	Patel, R. M., MA BT PhD	Reader
Lulla, B. P., MA MCom MED	Lectr.	Dave, I. A., MA	Lectr.
Desai, D. B., BA MED	Lectr.	Joshi, S. H., MA	Lectr.
Shah, R. S., MA BED	Lectr.	Tripathi, Y. J., MA BT PhD	Lectr.
English		Trivedi, H. M., MA	Lectr.
Kantak, V. Y., MA	Prof.	Hindi	
		Singh, C. P., MA	Prof.
		Simha, B. L., MA LLB BT	Lectr.

Nagar, A. S., MA PhD
Gupta, M. G., MA
Chaturvedi, M. G., MA

History

Misra, S. C., MA PhD
Krishnamurti, R., MA
Chavada, V. K., MA PhD
Shah, M. M., MA BT

Home Science, see below

Industrial Organization

Shah, C. T., MCom

Law

Dholakia, H. C., LL.M. *Corn*, MA LLB
Buch, N. N., MA LLB

Linguistics

Kalelkar, N. G., MA DLatt *Paris*

Marathi

Dandekar, V. P., MA PhD
Deshpande, S. V., MA

Mathematics

Singh, U. N., DPhil *Alld.*, DSc *Paris*
Manerikar, S. D., BA *Camb*
Cholkar, V. B., MSc
Shah, C. C., MSc
Patel, R. C., MSc
Patel, Rajibhai C., MSc
Sheth, N. T., MA
Patel, N. M., MSc
Shah, V. M., MSc
Desai, K. L., MSc
Dave, K. M., MSc
Yadav, B. S., MSc
Majumdar, H. N., BSc LLB BT
Asti, N. M., MSc
Mayor, Mrs Vinodini, BA
Patel, M. G., MSc
Goyal, O., MSc

Medicine, see below

Museology

Bedekar, V. H., MA DipMuseol
Nair, S. M., MSc DipMuseol

Music

Mehta, R. C., BA
Shukla, S. O
Thakkar, M. M., DipMusic
Kikani, N. B., DipMus

Oriental Studies

Sandesara, B. J., MA PhD
Bhatt, G. H., MA
Gen. Editor, Hd Ramanaya Dept

Lectr Shah, U. P., MA PhD DipMus
Lectr Pade, J. S., MA
Lectr Nambiar, M. R.
Thakkar, J. P., MA
Parekh, S. D., MA MED
Shanbhogue, B. L.

Reader

Lectr

Lectr

Lectr

Pali

Joshi, V. R., MA BT

Persian

Lokhandwala, M. F., MA
Rehman, M. L., MA BL

Lectr

Philosophy

Javadekar, A. G., MA PhD
Divetia, Miss Sunayana H., MA *Camb.*
& *Bda.*
Harihar Prapanna, MA

Reader

Lectr

Physics and Meteorology

Gogate, D. V., MSc PhD *Lond.*
Pandya, N. S., MSc PhD *Lond.*
Chaudhari, K. R., MSc *Alig*
Shah, C. N., BSc
Desai, H. S., MSc
Shah, S. G., MSc
Nerurkar, A. P., MSc
Pethe, G. V., MSc
Desai, G. S., MSc
Trivedi, G. K., MSc
Joshi, R. V., MSc
Mathrubhuteswaran, V. R., MSc
Vardachari, K. V., BA BSc

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Politics

Somji, A. H., MA PhD *Lond*
Desai, K. S., MA LLB
Bhalerao, C. N., MA
Shah, P. J., MA
Vakil, R. A., MA MD

Reader

Reader

Lectr

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Psychology

Bhatt, L. J., MA *Leeds & Bda.*, BT
Patel, A. S., MS(Ed) MS(Psy) *Wis*, MA
BT MED PhD
Pathak, Mrs Pramila T., BA BT MED
PhD
Warty, Mrs. M. S., MA
Pathak, N. S., MA

Reader

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Reader

Sanskrit

Bhave, S. S., PhD *Bom*, MA LLB
Mehta, H. C., MA BT
Principal, Baioda Sanskrit Mahavidyalaya
Jani, A. N., MA PhD
Nachane, Miss Sulochana A., MA PhD
Kantawala, S. G., MA PhD

Reader

Reader

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Reader

Social Work

Majumdar, Mrs Ammu M., MASW *Chic*,
DrSW *Col.*, BA

Reader

Reader

Reader

Reader

Reader

Reader

Reader

Reader

Reader

Reader

Reader

Reader

Reader

Reader

Dep. Dir
Res. Officer
Res. Officer
Res. Officer
Res. Officer

Lectr.

Lectr.

Lectr.

Reader

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Lectr.

Prof.

Reader

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Tayal, Mrs Indra S., BS MSc *Oklahoma,*MSW *Mich.*

Dadlani, G. G., BA MSW MSc

Telang, V S., MA MSW

Patel, Miss J. M., BA MSW

Ramdev, S. R., BA MSW

Yardi, S. R., MA LLB MSW

Motwani, J. K., MA MSW

Patel, Miss J. P., BA MSW

Muddalari, N. S., BSc MSW

Majmudar, S. K., BSc MSW

Dhawan, Mrs S., BA MSW

Dube, Miss Shakuntla, MA

Yaleja, S. A., BA MSW

Chaturvedi, H. R., BA MSW

Shelat, I. P., BA MSW

Sociology

Desai, I. P., MA PhD

Panchanandikar, Mrs Jaloo P., MA PhD

Panchanandikar, K. C., MA PhD

Sheth, N. R., MA

Unni, K. R., MA

Sheth, T. N., MA

Shah, B. V., MA PhD

Zoology

George, J. C., BSc PhD

Shah, R. V., MSc PhD

Ranade, V. D., MSc

Shah, Mrs Dolly R., MSc PhD

Shah, V. C., MS *Mime*, MSc

Neik, R. M., MSc PhD

Talesara, C. L., MSc

Pashvikar, S. D., MSc

HOME SCIENCE**Arts and Crafts**

Barbhaya, B. C.

Child DevelopmentVarma, Mrs Amrita B., MA (Educn) *Mich*Mukerji, Mrs. Renuka S., MA *Col*

Pandit, Miss S., BA DiplinHSc DiplinTT

Shah, Miss K. A., BSc(Home)

Trivedi, Miss Anjali H., MSc(Home)

Foods and NutritionSingh, Miss Justina, MSc *Oregon & Kansas* ProfPatel, Mrs Amaryyoti, MSc *Howard,*

BSc(Home)

Patel, Miss Kalindi C., MSc(Home)

Chhabra, Miss Shakti K., MSc(Home)

Home Science EducationCharji, Miss Padma S., MS *Drexel*, BA

BT

Gore, V. R., MSc *Ohio*Shah, Miss Kumud A., MSc *Iowa*, BScKanta, Miss Rupa, MA *Mich*, BAChandra, Mrs A. A., MSc *Howard,*

BSc(Home)

Randeri, Miss Kalindi J., BA MSW

MEDICINE**Anæsthesia**

Parulekar, R. P., MB BS DA

Paikhi, R. C., MB BS DA

Anæsthetist

Asst Anæsthetist

AnatomyDass, H. N., MB BS *Rangoon*

Varde, Miss Malini R., MSc PhD

Gupte, P. S., BSc MB BS

Bagwe, R. M., MB BS

Prof.

Lectr.

Lectr.

Lectr.

Dentistry

Drwanji, R. C., BDS

Dave, H. J., BDS

Hon Dent Surgeon

Hon Asst. Dent Surgeon

+

Ear, Throat and Nose

Shrinivasan, N., DL&O

Patel, C. B., MB BS DL&O

Trivedi, P. M., MS

Surgeon

Asst Surgeon

Jr Lectr

Medicine

Ambegaonkar, S. D., MRCP

Luhar, P. M., MRCP

Munshi, C. P., MD

Shah, C. P., MD

Patel, M. V., BSc MD

Patel, G. J., MD

Dixit, Y. B., MD DPæd

Vaidya, P. M., MD

Dave, B. T., MD MRCP

Hon Physician

Hon Physician

Hon. Physician

Hon. Asst Physician

Hon. Asst Physician

Hon. Asst Physician

Hon. Asst Physician

Hon. Asst. Physician

Lectr

Mental Diseases

Mukerji, A. N., MB MSc

Supt., Mental Hosp., Baroda

Obstetrics and Gynæcology

Patel, T. V., MD

Pandit, R. D., MD DGO

Swami, Mrs N. B., MD

Patel, V. G., MD

Pandit, Mrs Sindhu R., MD

Pandit, Mrs Sindhu R., MD

Pandit, Mrs Sindhu R., MD

Pandit, Mrs Sindhu R., MD

Pandit, Mrs Sindhu R., MD

Pandit, Mrs Sindhu R., MD

Pandit, Mrs Sindhu R., MD

Pandit, Mrs Sindhu R., MD

Pandit, Mrs Sindhu R., MD

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Pandit, Mrs Sindhu R., MD

Pandit, Mrs Sindhu R., MD

Pandit, Mrs Sindhu R., MD

Pandit, Mrs Sindhu R., MD

Hon Obstetrician & Gynæcologist

Hon. Obstetrician & Gynæcologist

Hon. Obstetrician & Gynæcologist

Hon. Asst. Obstetrician & Gynæcologist

Hon. Asst. Obstetrician & Gynæcologist

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Hon. Asst. Obstetrician & Gynæcologist

Hon. Asst. Obstetrician & Gynæcologist

Hon. Asst. Obstetrician & Gynæcologist

Hon. Asst. Obstetrician & Gynæcologist

Hon. Asst. Obstetrician & Gynæcologist

Hon. Asst. Obstetrician & Gynæcologist

Orthopaedics

Merchant, G. C., MS

Orthopaedic Surgeon

PædiatricsShah, S. H., DTM&H Lond Hon. Pædiatrician
Patel, T. B., MRCPed Hon. Asst. Pædiatrician**Pathology**Saiyed, B. A., MD Prof.
Sahgal, K. N., MD Lectr.
Jalihal, S. V., MB BS Lectr.
Parikh, N. B., MB BS Lectr.
Amin, S. P., MB BS Lectr.
D'Souza, T. J., MB BS Jr. Lectr.**Pharmacology**Gulatti, O. D., MD Lectr.
Gokhale, S. D., MD Lectr.
Parikh, H. M., MB BS Jr. Lectr.
Bulani, J. C., MB BS Jr. Lectr.
Desai, R. D., MD Hon. Asst. Pharmacologist**Physiology**Pathak, J. D., BSc MD Prof.
Amin, M. G., MSc MB BS Prof.
Pai, M. L., MSc PhD Lectr.
Sawant, Miss S. S., MB BS Jr. Lectr.
Desai, R. S., MB BS Jr. Lectr.
Desai, A. R., MB BS Jr. Lectr.**Preventive and Social Medicine**Niyogi, A. K., DPH DTH Edin., MB BS Prof.
Trivedi, S. R., MB BS Lectr.
Joshi, M. J., MB BS Jr. Lectr.**Radiology**Gandhi, A. M., DMRT Lond., MB BS
Hon. Radiologist
Dave, N. A., MB BS DMR
Hon. Asst. Radiologist**Skin and Venereal Diseases**Verma, B. S., DV&D DDV Bom., MB BS
Med. Officer**Surgery**Patel, M. A., MD, FRCS, FRFSGlas
Hon. Surgeon
Kothari, A. B., MS, FRFSGlas Hon. Surgeon
Desai, R. C., MS Hon. Surgeon
Patel, M. D., MS Hon. Asst. Surgeon
Patel, M. S., MS Hon. Asst. Surgeon
Shah, K. M., FRCS Hon. Asst. Surgeon
Patel, B. C., MS Hon. Asst. Surgeon
Patel, R. F., MS Hon. Asst. Surgeon
Bhatt, P. A., MS Lectr.**Tuberculosis**

Pujari, B. M., FRCS Supt., S.P. Sanatorium

TECHNOLOGY**Applied Mechanics**Madan, P. J., BSc Edin., DIC, MSc Lond. Prof.
Dighe, R. S., BE(Civil) Prof.
Hiriyur, N. Y., BSc BE(Civil) Reader
Batra, P. R., MS III, BE(Elec) Reader
Damle, S. K., BE(Civil) Lectr.
Dave, N. J., BE(Civil) Lectr.
Bhagia, T. D., BE DCE Lectr.
Shah, C. K., BE(Civil) Lectr.
Parikh, P. V., BE(Civil) ME Lectr.
Srinivasan, C., BSc BE Lectr.
Shah, V. C., BE(Civil) Lectr.
Joshi, N. P., BE(Civil) Lectr.
Desai, C. D., BE(Civil) Lectr.
Shah, N. C., BE(Civil) Lectr.
Shah, R. C., BE(Civil) Lectr.
Dholakia, K. M., BE(Civil) Lectr.**Architecture**Dave, M. B. Prof.
Achwal, M. B. Reader
Patel, S. L. Reader
Pandit, S. H., BA Lectr.
Pingle, N. S. Lectr.
Nandurbarkar, A. P., DipArchit Lond. Lectr.
Kadia, M. M. Lectr.
Patel, H. C., MArch Corn. Lectr.
Shah, P. C., BArch Lectr.**Civil Engineering**Khadilkar, C. H., BE(Civil) Prof.
Patel, O. H., MS Iowa, BE(Civil) Prof.
Shah, N. A., BE(Civil) Prof.
Dave, R. M., BE(Civil) Lectr.
Ganachandani, B. P., BE(Civil) Lectr.
Subramanyam, B. V., BE Lectr.
Shah, N. C., BE(Civil) Lectr.
Shah, V. C., BE(Civil) Lectr.
Nanavaty, B. B., BE(Civil) Lectr.
Shah, C. K., BE(Civil) Lectr.
Bhagia, G. I., DCE Lectr.
Dave, N. J., BE(Civil) Lectr.
Devaskur, S. V., DCE Lectr.
Pandya, M. A., DCE Lectr.
Shukla, B. T., DCE Lectr.
Mane, P. N., BE(Civil) Lectr.**Electrical Engineering**Sen, S. M., MSc Dacca, MS(EE) Prof.
PhD(EE) III. Prof.
Roy, S. K., BSc(Eng) Prof.
Advani, R. C., BScTech Manc., BSc Bom. Prof.
Thakore, K. K., BSc BSc(Eng) Reader
Shah, K. D., BSc(Elec) Reader
Makhiani, D. P., BE(Elec) Lectr.
Panchal, M. R., DEE BE Lectr.
Patel, S. I., BE(Elec&Mech) Lectr.
Derasari, J. R., BE(Elec&Mech) Lectr.
MS(Elec&Mech) Lectr.
Moorthy, M. K. S., BE(Elec) Lectr.
Desai, C. P., BE(Elec) Lectr.
Amin, C. M., DEE Lectr.

Mechanical Engineering

Shah, L. B., MSc(Tech) <i>Mane</i> , BSc(Eng)	Prof
Shah, J. M., BE(Mech&Elec)	Prof
Joshi, T. N., BSc(Eng)	Reader
Shah, R. T., Dring BE(Mech)	Reader
Patel, R. C., BE(Mech&Elec)	Reader
Patel, B. M., DME	Lectr
Dave, B. E., DME	Lectr
Shah, K. S., BE(Elec&Mech)	Lectr
Karamchandani, C. J., DME	Lectr
Raghavachar, T. S., BE(Mech)	Lectr

Kardile, Y. K., BE(Mech&Elec)	Lectr
Patel, S. I., DME	Lectr
Dave, B. G., DME	Lectr
Lodhwala, P. M., DME DEE	Lectr
Pandya, A. D., BE(Mech)	Lectr
Mehta, S. K., BE(Elec&Mech)	Lectr
Sheth, S. C.	Lectr
Sathe, V. N., DME	Lectr
Desai, M. B., BE(Elec&Mech)	Lectr
Shah, S. R., BE(Mech)	Lectr

ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar: K A Amin, MCom Univ Engineer: B B. Nanavaty, BE(Civil) Univ. Auditor: R A Iyer, BA Univ Accountant N. A. Parikh, BCom Capt Commanding 6th Bombay Battalion, NCC, Baroda. Capt M C Gupta, 18th Engin Platoon, NCC. Capt J Deshmukh Dir, Phys Educn B K. Naik, BS MPE Springfield Supt, Phys. Educn Miss S. S. Tawade. Phys Instrs H J Parikh, BA, P N Thakore, BT, C C Bhaya, BSc Wardens

of Halls of Residence L J Bhatt, K S Yajnik, H. C. Dholakia, O D Gulati, Mrs DeCruze, Mrs P G Pandya, C. M Patel Supt, Chetan Balwadi Mrs Amrita B Verma Hon Med Officer G S Apte, MB BS Hon Med Officer for Women Mrs Sulochana Shah, MB BS. Librarian, Univ Library C P Shukla, PhD *Mich*, MA BT. Principal, Univ Experimental Sch. G P Bhatt, BA BT Med Manager, M.S Univ Press R J Patel, BA.

CONSTITUENT INSTITUTIONS

BARODA SANSKRIT MAHAVIDYALAYA, Bank Rd, Baroda (no tel) Principal—H C Mehta, MA BT

COLLEGE OF INDIAN MUSIC, DANCE AND DRAMATICS, South of Sursagar, Baroda (tel. 2462) Principal—R C Mehta, BA.

PREPARATORY UNIT, Station Rd., Baroda (tel. 2380) Head—K S. Yajnik, MA BT

ORIENTAL INSTITUTE, Smt. Hansa Mehta Library Building, Station Rd., Baroda, (tel. 2727) Dir.—B J Sandesara, MA PhD

POLYTECHNIC, Nr Nizampura, Baroda (tel. 3005) Principal—C. H. Khadilkar, BE(Civil)

RECOGNIZED INSTITUTION

BARODA MUSEUM AND PICTURE GALLERY, Sayaji Park, Baroda (tel. 2505).
Offg Dir —B L Mankad, BA LLB

GENERAL INFORMATION

The idea of establishing a univ. at Baroda had engaged the attention of the govt. of the former state of Baroda as early as 1908, and in 1927 the Baroda univ commission appd. by the govt of Baroda submitted a report making a strong case for the immediate estab. of a univ. Circumstances, however, did not permit this. In 1940 another cttee, consisting of eminent educationists appd. by the govt of Baroda, recommended the estab. of a residential univ. The univ was estab. in April 1949 under the Mahatma Sayajirao University of Baroda Act. It is a unitary, teaching and residential univ.

CONSTITUTION His Highness the Maharaja of Baroda is chancellor of the univ. The vice-chancellor is the principal executive and academic officer and is asstd. by a pro-vice-chancellor or

rector. The vice-chancellor and pro-vice-chancellor or rector are elected by the senate from amongst the names of panels submitted by the syndicate. The senate is the supreme governing body and authority of the univ. and the syndicate its executive authority. Among the other authorities are the council of postgraduate studies and res which deals with all postgrad. matters, and the facs. and bds of studies which are principally responsible for all other academic matters. Provision has also been made in the act for the estab. of a bd. of extra-mural studies, bd. of sports, students' welfare bd and public bd.

INCOME (1960-61). Total income Rs 5,552,478 (principal sources: govt grants, 43 per cent.; fees, 36 per cent.; endowments, 0.6 per cent.)

FACULTIES AND DEANS *Arts*, Prof. I. P. Desai, Station Rd., Baroda, *comm*, Prof. B. G. Shah, Station Rd., Baroda, *educn. & psychol.*, Prof. S. N. Mukerji, Station Rd., Baroda (the univ. exper. sch. is attached to the fac for practice and experiments in teaching), *fine arts*, Prof. N. S. Bendre, University Rd., Baroda, *home sci.*, Prof. Justina Singh, University Rd., Baroda (the Chetan Balwadi—a pre-primary sch.—is attached to the fac for teaching child development, etc.), *med.*, Prof. J. D. Pathak, Station Rd., Baroda, *sci.*, Prof. N. M. Bhatt, Station Rd., Baroda, *soc work*, Prof. (Mis.) Ammu M. Majumdar, University Rd., Baroda (mental hyg. & psychiatric clinic is attached to the fac); *technol. & engin.*, Prof. P. J. Madan, Rajmahal Rd., Baroda

LIBRARIES. Central univ. library; specialized libraries in all facs, insts and halls of residence. Oriental inst. library has 20,631 MSS and 22,935 books. Total stock in all libraries 232,300

MUSEUMS Ancient musical instruments, archaeol., teaching aids, all depts of med. fac

LABORATORIES, ETC. Biochem., bot., chem., geol., stats., zool.; all depts. of home sci., med. and technol. facs. Studios and workshops for fine and appl. arts

Bot. garden, herbarium, observatory; Rasashala for res. in Ayurveda, experimental school

TEACHING HOSPITALS Shri Sayaji General H., Padamavati T. B. Sanatorium, Jambhai H.

ADMISSION Students who have passed the Gujarat sec. sch. cert. exam. or entrance, matric. or equivalent exam., or recognized exam. of an Indian statutory univ., will be admitted to the course leading to the 'preparatory exam.'

PREPARATORY AND PRE-PROFESSIONAL COURSES A 1-yr. course from matric. leads to the preparatory exam. The 1-yr. pre-professional courses, for students who intend to read for 1st degrees in technol. and engin. or in med., are open to those who have passed the preparatory exam. in sci. or an equivalent exam.

FIRST DEGREES BA, BSc, BCom—3 yrs. after preparatory exam. in arts, sci., comm.; Shastri—2 yrs.; BE (civil, electr., mech.), BText(Eng), BText(Tech)—4 yrs. after preparatory exam. in sci. (i.e. 3 yrs. after pre-professional course); BSc(Home), BA(Fine), BMus—4 yrs. after matric.; BArch—5 yrs. after matric.; MB BS—5½ yrs. after pre-professional course in med. No honours degrees are awarded

HIGHER DEGREES. BEd—1 yr. after bachelor's degree in arts, sci., comm.; MA, MEd, MSc, MCom, MA(Fine), MMus, MSc(Home), MSW, MD, MS, ME (civil, electr., mech)—2 yrs., PhD in arts, sci., comm.—2 yrs. after master's degree; Acharya—2 yrs.

DIPLOMAS. Teaching (TD), co-operation (DipCo-op), 1 yr. after matric., engin. (DCE, DEE, DME), textile chem. (DTC), dance, dramatics, 3 yrs., textile technol., painting,

sculpture, appl. arts, 4 yrs., music, Visharad, 5 yrs., also post-dipl. courses in painting, sculpture, appl. arts, 2 yrs. *Postgraduate:* banling, library sci., co-operation, profess. dipl. in educn. admin. (DipEdAdm), profess. dipl. in appl. linguistics (DipALing), museol., nursery sch. educn., 2 yrs., guidance & counselling (DGC), 1 yr., ophthalmol. (DO), anaestheol. (DA), clin. pathol. (DCP), 12 mos., laryngol. & otol. (DL&O), med. radiol. & electrol. (DMR&E), paediatrics (DPaed), venerol. & dermatol. (DV&D), 9-12 mos.; tubercular diseases (TDD), 12-18 mos., gynecol. & obstet. (DGO), 12 mos.

STUDY LEAVE may be granted to not more than 3 members of teaching staff at a time. Study leave of not more than 3 yrs. or, ordinarily, less than 6 mos. can be granted to members below the age of 45 after at least 5 yrs' permanent service. Payment of all educn. fees, stipend subject to a max. of Rs. 450 p.m. for study abroad and Rs. 150 p.m. for study in India, rail and steamer fare from Baroda to place of study and back.

FEES Tuition per term: degree courses—arts, comm., sci., Rs. 100, educn. & psychol., Rs. 120, technol., Rs. 200; fine arts, home sci., Coll. of Indian Music, Dance & Dramatics, Rs. 75. Higher degree courses—arts, comm., sci., Rs. 100, educn. & psychol., Rs. 100 (for 2 yrs. by papers), fine arts, home sci., Coll. of Indian Music, Dance & Dramatics, Rs. 75, soc. work, Rs. 100. Dipl. courses—educn. & psychol., Rs. 60, comm., Rs. 25, technol., Rs. 100, fine arts, Rs. 75. Post-dipl. courses—fine arts, Rs. 75. Postgrad. dipl. courses—comm., fine arts, Rs. 100.

Lab. fees per term: fine arts (all courses except postgrad. dipl.), Coll. of Indian Music, Dance & Dramatics, Rs. 20, home sci. (degree and higher degree courses), Rs. 20, sci. (degree courses) first yr. and pre-med., Rs. 25, and 3rd yrs., Rs. 40.

ACADEMIC YEAR Two terms, each of approx. 16 wks., from June 21 (fine arts, July 1, soc. work, July 15) to March 20 (fine arts, March 31; med. & soc. work, April 15).

The **LANGUAGE OF INSTRUCTION** at present is Engl., but students are allowed to answer questions at exams. in Engl. or Hindi or the regional lang. (Gujarati).

SCHOLARSHIPS. Postgrad. schols. of Rs. 40 p.m. + 4 each for arts and sci., 2 each for educn. & psychol., comm., fine arts, music, home sci., soc. work.

HALLS OF RESIDENCE (For wardens, see 'Admin. and Other Staff', above) For men: Shri Manubhai Mehta Hall, Univ. Campus, Baroda (tel. 2735), 146 students; Maharshi Arvind Hall, Univ. Campus, Baroda, 145 students; Dr. Jivraj Mehta Hall, Univ. Campus, Baroda (tel. 2259), 151 students; Shri K. M. Munshi Hall, Univ. Campus, Baroda (tel. 2735), 118 students; Shri Dadabhai Naorji Hall, Univ. Campus, Baroda, 66 students; Keshavnprasad Hostel, Bagikhana Rd., Baroda, 27 students. For women: Shrimati

Saigajidevi Hall, Univ Rd, Baroda (tel 2461), 231 students, Shrimati Hansa Moha Hall, Univ Rd, Baroda, 124 students Fees Rs 85 per term

STAFF RESIDENCES The univ has 7 residential bungalows, 18 flats and 25 small cottages

NATIONAL CADET CORPS. The univ NCC has 9 units, viz 3rd Gujarat bn with total strength of 625 cadets and 13 officers, and Gujarat girls troop (135 cadets, 3 officers), 18th Gujarat engin platoon (60 cadets, 2 officers), 20th Gujarat med company (60 cadets, 1 officer); 9th Gujarat girls troop (135 cadets, 3 officers), 17th Gujarat air sqn (205 cadets), and Gujarat group NCC rifles (2684 cadets), 20th Gujarat signal section (120 cadets, 2 officers), 3rd Gujarat tech sqn (28 cadets, 2 officers)

AUXILIARY CADET CORPS The univ has also introduced the ACC scheme which aims at developing character and capacity for leadership and is compulsory for students of the first 2 yrs in degree and dipl classes

STUDENT HEALTH SERVICE. All new students are medically examined There are 2 hon med officers, one for men and one for women, who visit the halls of residence regularly and attend to the 'follow-up' work of cases indicated by the med exam bd

STUDENTS' UNION The executive cttee consists of the pres apptd. by the univ from amongst members of staff, the treasurer apptd by the vice-

chancellor from amongst members of staff, and 20 elected student reps. of different facs. and insts. of the univ. The vice-chancellor is patron of the union. The union holds debates, arranges public lectures, and maintains a library, reading room, games room, co-operative store and co-operative bank

STUDENTS' ADVISORY BUREAU FOR STUDIES IN INDIA AND ABROAD The bureau collects and supplies information about foreign and Indian univs. and other educn. institutions. It advises students on studies in foreign countries and India. The library contains prospectuses, regns, handbooks, calendars of various univs, besides books of general interest, including books giving information about schols, cost of studies and instruct for students desiring to go abroad. The bureau also helps students in obtaining admission to foreign univs.

PUBLICATIONS *Handbook Part I* (univ authorities) annually, *Part II* (act, statutes, ordinances) 1956, *Part III* (syllabuses, entrance requirements) 1955, *Part IV* (prescribed and recommended text-books) 1954, *Annual Report, Univ Journal* (March, Oct), *Journal of Oriental Institute* (quarterly), *Journal of Education and Psychology* (quarterly)

UNIVERSITY PRESS All printing work of the univ and instns is undertaken by the univ press, which is supervised by a cttee apptd by the syndicate

THE YEAR 1960

PRINCIPAL BENEFACTIONS Sir Sayajirao Diamond Jubilee and Memorial Trust Fund, Rs 300,000

RESIGNATIONS B C Parekh (arts), S B Majumdar (arts), V G Phatak (sci.), K S Saniia (sci.), V V Rao (sci.); M. Bhatt (fine arts), Miss Saroj Jain (home sci.), Mrs P. M. Bhatt (soc work), Miss S R Contractor (soc. work), D F Pereira (soc work), M N Bazmi (soc work)

Statistics

STUDENT NUMBERS, July 1960

	Full-Time	Part-Time
Men	6530	—
Women	1196	—
Total	7726	—

Distributions by Faculties *Arts*, 1129, *Coll. of Indian Music, Dance & Dramatics*, 36; *comm*, 937, *educn & psychol*, 329, *fine arts*, 148, *home sci.*, 307, *med*, 389, *polytechnic*, 819,

prep unit, 1270, *Sanskrit Mahavidyalaya*, 34, *sci*, 657; *soc work*, 62; *technol & engin*, 1609. Total. 7726.

Included in the figures above are —

Preparatory unit or Pre-University students, 1270

Postgraduate students, 768 (627 m, 141 w)

New admissions, 1862 (1472 m, 390 w)

Students from other countries, 100

DEGREES AWARDED (1959-60) *Arts* BA, 196; MA, 39 *Comm* BCom, 129, MCom, 4. *Educn & psychol* BEd, 108, MEd, 21. *Fine arts* BA(Fine), 7 *Home sci* BSc(Home), 30 *Med* MB BS, 17, MD, 5 *Music, dance & dramatics* BMus, 5, MMus, 1 *Sanskrit Mahavidyalaya* Shastri, 2 *Sci* BSc, 125; MSc, 53 *Soc work* MSW, 26. *Technol & engin.* BE (civil, elect & mech), 154, BText (Eng), 11 PhD (all facs) 7

DIPLOMAS AWARDED (1959-60). *Labr sci* (postgrad), 13, *banking* (postgrad), 7; *DO*, 1, *DA*, 1; *DPed*, 2; *museol* (postgrad), 4

BIHAR UNIVERSITY*

Founded 1960, previously established 1952

Postal Address Muzaffarpur, Bihar State, India

Cables and Telegrams : Bihvarsity

Telephone 569, 591-2

CHANCELLOR—THE GOVERNOR OF BIHAR (*ex officio*)

VICE-CHANCELLOR—K K BANARJE, MA BL

TREASURER—T N SINHA, BA BL

ACTING REGISTRAR—P R CHOWDHARY, BSc

FACULTIES AND DEANS—AGRICULTURE—Principal S K. MUKHERJEE, MSc Iowa, DipAg N.Z., ARTS—
H R GHOSHAI, DLitt; COMMERCE—Principal B P. SINGH, MSc, ENGINEERING—D P SINHA;
LAW—Principal K NARAYAN, MA BL, SCIENCE—R SHUKLA, PhD Lond

DEPUTY REGISTRAR—A P SINHA, MCom

FINANCE OFFICER—P R CHOWDHARY, BSc

ASSISTANT REGISTRAR—R. C P SINHA, MA

COLLEGE MAINTAINED BY THE UNIVERSITY

[MA, MSc, etc., after the name of a coll means that courses are provided there
for MA, MSc, etc.]

MUZAFFARPUR, *Langat Singh College* (tel :
Muz. 61) BA, BSc, BA (hons), BSc (hons),
MA, MSc Principal—B N Singh, DSc Hds.
of postgrad depts * BOT — ; CHEM —
D N Chowdhary, PhD Dacca; ECON.—H. G
Singh, PhD Lond, ENGL.—M Pratap, MA
Camb, HINDI—D N Sharma, MA, HIST.—

H R Ghoshai, DLitt, MATHS —R Shukla, PhD
Lond., PHILOS.—Y Masih, PhD Lond, PHYS —
S C. Prasad, PhD, POL SCI.—L P Singh, PhD
Lond, PSYCHOL.—B Dey, PhD Lond., SANSK
—J Mishra (actg hd of postgrad dept), ZOOL
— . . . 113 other Teachers.

COLLEGES ADMITTED TO THE PRIVILEGES OF THE UNIVERSITY

BABUBAHI, *Jagdish Nandan College* BA.
Principal— . . . , 6 other Teachers

BETTIAR, *Maharaja Yash Kumar College*
BA, BSc. Principal—A K Prasad, MA; 24
other Teachers.

BHAGWANPUR, *Laxmi Narain College* BA
Principal—B F. Singh, 6 other Teachers.

CHANDAULI, *Jagannath Singh College* BA
Principal—J P Sinha, MA, 8 other Teachers

CHAPRA, *Jagdan College*. BSc, BA, BA (hons)
Principal—B. N Singh, MSc; 29 other Teachers

CHAPRA, *Jay Prakash Mahila Mahavidyalaya*
BA. Principal—Mrs Bhagya Vikram; 11 other
Teachers

CHAPRA, *Rajendra College* (tel Chap. 21).

BA, BSc, BCom, BA (hons.), BSc (hons), BCom
(hons) Principal—B P Singh, MSc 75 other
Teachers

DALSINGARAI, *R B. College*. BA Principal—
S N Singh

DARBHANGA, *Chandradhari Mithila College*
(tel Dar 51). BA, BSc, BCom, BA (hons.),
BSc (hons), BCom (hons.) Principal—L. K.
Mishra, PhD, 99 other Teachers

DARBHANGA, *Marwari Mahavidyalaya* BA
Principal—N. P Sinha, MA; 11 other Teachers.

DARBHANGA, *Millat College*. BA Principal—
I H. Rizwi; 11 other Teachers

HAJIPUR, *Raj Narain College* BA, BSc
Principal—N. C Bhattacharya, MA, 28 other
Teachers

* Member of the Association of Universities of the British Commonwealth

HATHWA, *Gopeshwar College*. BA, BSc Principal—D. N. Sahay, MA, 11 other Teachers

JAINAGAR (Darbhanga), *DB College* BA Principal—N. P. Singh

JAINTPUR, *Ragho Prasad Sinha College* BA Principal—R. M. Prasad, 8 other Teachers

JHANSARPUR, *Janta College* BA Principal—P. Mishra, 10 other Teachers

MADHUBANI, *Ram Krishna College* BA, BSc, BCom Principal—A. K. Dutta, MA BL; 70 other Teachers

MOHANPUR, *G.M.R.D. College*. BA Principal—.....

MOTIHARI, *Dr S. K. Sinha Women's College*. BA Principal—....., 6 other Teachers

MOTIHARI, *Munshi Singh College* (tel. Moti. 55) BA, BSc, BA (hons), BSc (hons) Principal—K. P. Sinha, MSc, 54 other Teachers

MUZAFFARPUR, *Mahant Darshan Das Mahila College* (tel. Muz. 171) BA, BSc Principal—Mrs. Lalita Sinha, MA, 24 other Teachers

MUZAFFARPUR, *Ram Dayalu Singh College* (tel.

Muz. 137) BA, BSc, BCom, BA (hons) Principal—G. P. Singh, MA, 55 other Teachers

PANDAUL, *Anant College* BA Principal—... , 9 other Teachers

PARSA, *Janta College* BA Principal—... 5 other Teachers

ROSEIA (Darbhanga), *Roseia College* BA Principal—

SAHPUR, *Patori College* BA Principal—

SAMASTIPUR, *Samastipur College* BA, BSc, BA (hons) Principal—C. S. Keshuri, MA, 33 other Teachers

SARISABPAHI, *Maharaja Lakshmeshwar Singh College* BA Principal—... ; 9 other Teachers

SITAMARHI, *S.R.K. Goenka College* BA, BSc, BCom Principal—B. M. Mishra, MA, 28 other Teachers

SIWAN, *D.A.V. College* BA, BSc, BCom Principal—B. B. Misra, PhD, 32 other Teachers

Professional Colleges

DARBHANGA, *C.M. College* (tel. Dar. 51) BL parts I & II Principal—L. K. Mishra, MSc PhD; 5 other Teachers

DARBHANGA, *Medical College* (tel. Dar. 28) MB BS, MD, MS Principal—M. Prasad, 57 other Teachers

MUZAFFARPUR, *Institute of Technology* (tel.

Muz. 117) BSc(Eng) in civil engin Principal—D. P. Singh, 22 other Teachers

MUZAFFARPUR, *S.K.Y. Law College* (tel. Muz. 114) BL parts I & II. Principal—K. Narayan, MA BL, 5 other Teachers

PUSA, *Tirhut Agriculture College* Principal—S. K. Mukherjee, MSc Iowa, DipAg N.Z.

GENERAL INFORMATION

Previously founded in 1952 by the Univ. of Bihar Act, 1951, the univ. was established on July 12, 1960, by the Bihar State Univs. Act, 1960.* It is affiliating and teaching. The act provides for postgrad. teaching and res. in the affiliated colls. to be conducted directly by the univ., and teaching up to 1st degree stage by the affiliated colls. The constituent coll. is maintained by the univ. itself.

CONSTITUTION. The senate (about 109 members) is the supreme governing body of the univ. and has the entire management of and superintendence over the affairs, concerns and property of the univ. It is reconstituted every 3rd yr. The syndicate (19 members) is the executive body of the univ. The academic council (21 members) is the chief academic body of the univ.

INCOME (1959-60) Rs. 8,651,996, exam fees,

Rs. 2,332,841, registration, inspection, etc., Rs. 573,012, U.G.C., Rs. 998,632, state govt., Rs. 3,978,819; misc., Rs. 768,692.

FACULTIES AND DEANS See p. 472. There are about 35 bds. of studies.

ADMISSION Admission to the 3-yr. degree course in arts, sci. and comm. is open to holders of certs. of higher sec. exam., pre-univ. exam. or an exam. recog. by the academic council as equivalent. (Pre-univ. cert., 1 yr. after matric. or equivalent.)

FIRST DEGREES BA, BSc, BCom, pass and hons., 3 yrs. after higher sec. or pre-univ.; BSc(Eng), 4 yrs., BSc(Agr.), 3 yrs. after BSc pt. I; MB BS, 5 yrs. after BSc pt. I.

HIGHER DEGREES MA, MSc and BL, 2 yrs. after bachelor's degree (MSc in all tech. facs., 2 yrs. after BSc in same fac.); ML, 2 yrs. after BL; MD and MS, 2 yrs. after MB BS of which at least

* The Univ. of Bihar Act, 1951, and the Patna Univ. Bihar State Univs. Act, 1960, has now come into force established by the state legislators. (1) Patna Univ., Patna; Bhagalpur; and (4) Ranchi Univ., Ranchi.

Rs. 2,332,841, registration, inspection, etc., Rs. 573,012, U.G.C., Rs. 998,632, state govt., Rs. 3,978,819; misc., Rs. 768,692.

Consequently, 4 univs. (one in each div.) have been established. (2) Bihar Univ., Muzaafarpur, (3) Bhagalpur Univ.,

1 yr. practical study or hosp work The PhD is awarded to MAs and MScs by exam & thesis after 2 yrs 'rea' The DSc and D Litt are awarded to MAs or MScs after 5 yrs. and to PhDs after 3 yrs

ORIENTAL STUDIES. BOL and MOL degrees awarded after exam

FEES (annual). Pre-univ arts, comm., Rs 105; pre-univ. sci., Rs. 117, BA, BCom, Rs 117, BSc, Rs 129; MB BS, Rs. 200, agric, Rs 150, MA, BL, Rs 153

ACADEMIC YEAR June to May 3 terms
Term dates June 27 to Sept 27, Oct 30 to Dec 23; Jan 2 to May 31.

LANGUAGE OF INSTRUCTION. Hindi up to first degree level in arts, comm, sci Engl in other subjs. and stages.

RESIDENCE Students not living with their parents or guardians are required to live in coll hostels or approved lodgings L S Coll, Muzaffarpur (warden M Pratap), has 3 hostels, accomm 350 Seat rent, etc, Rs 82

NATIONAL CADET CORPS Bihar battalions provide military trg for students in the colls, rifle tug has recently been started in 15 colls.

MEDICAL INSPECTION AND PHYSICAL EDUCATION. Provision has been made for inspection by qualified med. officers of students in the colls. Phys. educn. is compulsory and the colls have on their staffs qualified phys instrs There is provision for athletics in all colls

PUBLICATIONS. *Calendar* (Vols I & II), publd. every and yr (price Rs 10); *Bihar Unvr Journal* (Vols I & II).

THE YEAR 1959

Statistics

STUDENT NUMBERS, 1959-60

	Full-Time	Part-Time
Men	21,988	—
Women	2,593	—
Total	24,581	—

Distribution by Faculties *Agric*, 87, *arts*, 15,300; *comm*, 3601, *engin*, 209; *law*, 390, *med*, 556; *sci*, 3306

Included in the figures above are —

Postgraduate students, 1042

New admissions, 567

Students from other countries, 43

DEGREES AWARDED (1960). *Agric* BSc(Agric), 161, MSc(Agric), 217 *Arts* BA, 3000, MA, 1089 *Comm* BCom, 700, MCom, 60 *Engin* BSc(Eng), 245, MSc(Eng), 37 *Law* BL, 280. *Med* MB BS, 95, MD, 4, MS, 3 *Mining* BSc(Mining), 87 *Sci* BSc, 803, MSc, 126, BSc(ApplGeol), 45, MSc(ApplGeol), 21. *Vet* sci BVSc&AH, 52 PhD 2

UNIVERSITY OF BOMBAY*

Founded 1857

Postal Address University Road, Fort, Bombay 1, Maharashtra State, India

Cables and Telegrams : Bombay University, Bombay 1

Telephone : Bombay 255341

CHANCELLOR—H.E. THE GOVERNOR OF MAHARASHTRA (*ex officio*)

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—V. R. KHANOLKAR, BSc MD Lond, FNI

RECTOR—G. D. PARIKH, MA

REGISTRAR—T. V. CHIDAMBARAN, BA *Madr.*

LIBRARIAN—D. N. MARSHALL, MA DipLib

UNIVERSITY TEACHING STAFF

[†=Part-Time]

Applied Psychology

Mukerji, N, MSc PhD *Lond.*

Prof, Hd of Univ Dept.

Kulkarni, T. R., MA Reader

Kale, S. V., AM PhD *Cal.*, MA Reader

Jog, R. N., MA *Lond.*, BSc BT MED Lectr

Pratap, Mis Saris, AM III, MA BT Lectr

Chemical Technology

Nabai, G. M., BA MSc MScTech

PhD *Manc.*, FRIC, FTI Mody Prof, Dir

Khorana, M. L., BS(Pharm) MS *Mieh*

(Pharmaceutical Chem) Prof

Dauwala, E. H., PhD *Manc.*, BSc

MScTech (Textile Chem) Prof

Tilak, B. D., DPhil *Oxon.*, BSc(Tech)

PhD (Dyestuff Technol) Prof

(Chem Engn) Prof

Joshi, M. V., BScTech *Manc.*

BE(Mech&Elect) (Gen Engn.) Prof

(Food Technol) Prof

Puntambekar, S. V., BSc(ChemEngg) MS

PhD III (High Polymers) Prof

Kane, J. G., MSc PhD *Wis*

(Technol of Oils) Prof

Sunthakar, S. V., BSc(Tech) PhD

(Colour Chem) Reader

Ghosh, B. N., PhD *Leeds*, MSc

(Org, Inorg & Phys Chem.) Reader

Shah, K. H., PhD *Leeds*, BSc(Tech)

PhD (Org, Inorg & Phys Chem) Reader

Kudalkar, V. G., BSc(Tech) MS *Purdue*,

PhD *Wash*

(Pharmaceutical Chem) Sir Dorabji

Tata Reader

Achwal, W. B., DrRerNat *T.H.Aachen*,

BSc(Tech) PhD

(Dyeing & Printing) Reader

Nandapurkar, S. S., PhD *N Carolina*,

MSc PhD *Osm*

(Chem Engn) Singhane Reader

Navalkar, V. P., BE (Gen Engn.) Reader

Altekar, V. A., DScEMet MS *Colorado*,

BSc(Met) *Ban* (Metall. Engn) Reader

Potnis, S. P., BSc MSc(Tech) PhD

(High Polymers) Sir Homi Mehta Reader

Narbolu, G. A., MSc PhD

(Appl Maths) Reader

Rege, D. V., BSc BSc(Tech) PhD

(Microbiol) Reader

Rajaram Rao, M., MB BS (Pharmacol) Reader

(Phys) Reader

Rebello, D., PhD *Pitt.*, BSc(Tech)

(Technol of Oils) Sir Homi Mehta

Reader

(Org, Inorg & Phys Chem.) Lectr

Chivate, M. R., BSc MSc(Tech)

(Chem. Engn.) Singhane Lectr

Sharma, M. M., BChemEng

(Chem. Engn) Temp Lectr

Barve, R. S., BE(Civil) *Poona*

(Civil Engn) Lectr.

Subramanyan, P. R., BE(Mech&Electr)

(Mech & Electr Engn) Lectr

Amm, R. C., BE

(Mech & Electr Engn) Lectr.

Tamhane, D. V., BSc(Tech) PhD

(Food Technol.) Lectr.

... (Fuel Technol) Singhane Lectr

Gore, T. S., BSc(Tech) PhD

(Micro-Analysis) Lectr.

Purohit, K., MPharm (Pharmaceutics) Lectr.

Batu, R. G., BSc BSc(Tech)

(Pharmacog.) Lectr

Baichwal, Mrs Malati R., MPharm *Tor*,

BSc MSc(Tech) PhD

(Pharm) Singhane Lectr.

* Member of the Association of Universities of the British Commonwealth

Pishawikar, A D, BSc(Tech) PhD
(Pharm) Lectr
Vidwans, D B, BA BSc MSc(Tech) PhD
(Technol of Paints & Varnishes) Lectr
Datye, K V, BSc MSc(Tech) Res Asst.
Kangale, P J, BSc(Tech) PhD
(Dyeing & Printing) Tech. Asst.
24 Demrs

Civics and Politics

Dastur, Miss Aloo J., MA PhD
Sir Phirozeshah Mehta Prof, Hd of
Univ Dept
Mehta, Miss Usha H., BA LLB PhD Reader
Aiyer, S P, MA PhD
(Pol) Edwin Montague Lectr
Srinivasan, R, MA Lectr.
2 Res Assts

Economics

Dantwala, M L, MA
(Agric E.) Prof, Actg Dir
Lakdawala, D T, MA PhD Prof
Shah, C H, PhD (Agric E) Reader
Murty, V S R, MBA Kansas, MCom
LLB (Bus Management) Reader
Brahmananda, P R, BA Mys, PhD Reader
Ranavive, Miss Kamal R., BA Camb, MA
Reader

Deshpande, A S, BA MCom
(Bus. Management) Lectr
Nair, P A, MA PhD Temp Lectr
D'Souza, V S, MA PhD
Maddala, G S, MSc (Agric E) Sr. Res Officer
Baichwal, P R, MA (Agric. E) Jr Res Officer
Khambadkone, M V, MA
(on leave) Jr Res Officer
Doodha, K. D., MA PhD Jr Res. Officer

Law

Irani, P K., MA LLM Harv.
Prof, Hd of Univ Dept
Sethna, M J, PhD Reader
Pandya, A J, MA LLB Lectr
Sathe, S P, BA LLM Lectr

Sociology

Kapadia, K M, PhD
Prof, Hd. of Univ Dept.
Desai, A R, PhD Reader
Cabinetmaker, Miss Pern H., PhD Lectr
Narain, D, PhD Lectr

Statistics

Chakrabarti, M C, MSc Dacca
Reader, Hd. of Univ Dept
Kshuragar, A M, MSc Lectr
Vartak, M. N., MSc Lectr

ADMINISTRATIVE AND OTHER STAFF

Dep Registrar · F P Soares, BA. Asst
Registrar · K S Kolge, BA Sec, Universities'
Information Bureau H M Remedius, MA

Manager, Univ Journal B A Olkat, BSc
Manager, Univ Press V G Moghe, BA

UNIVERSITY DEPARTMENTS

(See also pp 475-476)

UNIVERSITY DEPARTMENT OF APPLIED PSYCHOLOGY, Fort, Bombay 1 (tel 255341). Founded 1950. Prepares students for MA by exam. and PhD by res in psychol Hd of Dept —N Mukerji, MSc PhD Lond.

UNIVERSITY DEPARTMENT OF CHEMICAL TECHNOLOGY, Matunga, Bombay 19 (tel 61308). Founded 1934 Courses for BSc(Tech) in subs mentioned on p 480, and for BChemEng and BPharm; facilities for res in chem. and chem. technol. for MSc(Tech), PhD (in sci or technol.). Dir.—G M Nabar, BA MSc MScTech PhD Manc, FRIC, FTI

UNIVERSITY DEPARTMENT OF CIVICS AND POLITICS, Fort, Bombay 1 (tel. 251286-7). Founded 1948. Prepares students for MA and PhD by res. in pol and for MA by exam. in pol. Hd of Dept —Miss Aloo J. Dastur, MA PhD

UNIVERSITY DEPARTMENT OF ECONOMICS, Fort, Bombay 1 (tel : 251286-7) Founded 1921.

Prepares students for MA and PhD by res, for MA by exam in econ and agnc. econ, and for dipl. in bus management Actg Dir —M. L Dantwala, MA

UNIVERSITY DEPARTMENT OF LAW, Fort, Bombay 1 (tel · 251286-7) Founded 1950 Prepares students for LLB by exam and PhD by res in law Hd of Dept.—P K Irani, MA LLM Harv

UNIVERSITY DEPARTMENT OF SOCIOLOGY, Fort, Bombay 1 (tel 251286-7). Founded 1919 Prepares students for MA and PhD by res. in sociol and for MA by papers in sociol Hd. of Dept —K M Kapadia, PhD

UNIVERSITY DEPARTMENT OF STATISTICS, Fort, Bombay 1 (tel. 251286-7) Founded 1948. Prepares students for MA and MSc exams. in stats Facilities for res. in stats. for MA, MSc, PhD Hd. of Dept.—M C. Chakrabarti, MSc Dacca

CONSTITUENT COLLEGES

[Note—BA, BSc, etc., after the name of a coll means that courses are provided there for BA, BSc, etc. Postgrad. teaching is done and is conducted through the univ depts and through recognized univ teachers in constituent colls. and postgrad instns]

Science College

BOMBAY, *Institute of Science* (Govt.), Fort (tel. 251663). BSc, MSc, PhD (in sci), DSc Dir.—D. V. Bal, PhD *Liv.*, MSc 14 other Profs, 9 Lectrs., 24 Asst. Lectrs and Res. Assts.

Arts, Science and Professional Colleges

BOMBAY, *Bombay College of Pharmacy*, Fort (tel. 263526) DipPharm. Principal—K. S. Patel, BSc BScPharm MS

BOMBAY, *Bombay Veterinary College* (Govt.), Parel (telegrams • Bovet, Bombay, tel. 61180) BSc(Vet). Principal and Prof of BACTERIOLOGY—D. T. Parnak PATHOL.—W. V. Chaturpale PARASITOL.—S. R. Rao, DSc, PHYSIOLOGY.—M. R. Redkar, MSc. SURG.—Mrs. S. R. Hattangady, BVSc MED.—G. R. Murkubhai, MS. GYNÆCOL.—C. R. Sane, FRCVS. ANAT.—K. R. Alur. 9 Asst. Profs., 13 Lectrs., 3 Res. Assts., 1 Asst. Pathologist, 1 Res. Officer, 1 Hosp. Surgeon.

BOMBAY, *College of Commerce and Economics*, Dinshaw Wacha Rd., Bombay 1 (tel. 211231) Founded 1960 ICom Principal—H. C. Malkani, MA 20 other Profs, Lectrs and Tutors

BOMBAY, *College of Nursing*, Bombay 8 (tel. 77835) Founded 1960 1st & yr BSc (Nursing) Principal—Mrs. Moti R. Balsara 2 other Lectrs

BOMBAY, *Elphinstone College* (Govt.), Fort (tel. 254353) ISC, BA, MA, PhD (in arts) Principal—G. C. Bannerjee, MA BLitt Oxon Other Profs • ENGL.—M. V. Rajadhyalsha, MA, Miss Homai J. Shroff, MA Oxon, Miss Mehroo Jussawala, MA Oxon FRENCH—M. L. Balse, MA PhD DLitt Paris; J. M. Umrigar, MA GERMAN—R. V. Paranjpe, DPhil Munich, MA SANSKRIT—K. R. Potdar, MA DLitt, N. J. Shende, MA PhD MARATHI—M. A. Karandikar, MA PhD GUJARATI—C. P. Bhatt, MA HINDI—I. P. Pandey, MA HIST.—G. M. Moraes, DSc L. Stras, MA, S. N. Athavale, MA ECON.—B. R. Rautkar, MA PHILOS.—J. N. Chubb, MA DPhil Oxon, J. D. Swamidasan, MA, V. M. Kulkarni, MA. PHYS.—Miss Maima M. Paranjpe, PhD Lond, MSc CHEM.—D. C. Motwani, MSc BIOL.—V. B. Tembe, MSc MATHS.—V. D. Gadre, MSc STATS.—S. R. Mehta, MSc. 39 others

BOMBAY, *Govt. Law College* (Govt.), Fort (tel. 241707) Founded 1855 LLB, LL.M Principal—T. K. Tope, MA LLB 27 other Profs and Lectrs.

BOMBAY, *Grant Medical College* (Govt.), Byculla (telegrams • Medical, tel. 70922). MB BS, MD (Med., Obstet & Gynæcol., Pædiatrics, Pathol., Pharmacol., TB), MS (Surg., E.N.T.,

Ophthalmol., Orthopaedics), MSc (Anat., Biochem., Pharmacol., Physiol.), PhD (Med., Microbiol., Pathol.), DA, DPH, DPM, DMRD, DMRE, DV&D Dean—D. V. Virkar, MS, FRCSed Profs MED.—T. N. Tulpule, MRCP PHARMACOL.—B. B. Gaitonde, MD MSc(Med) OBSTET. AND GYNÆCOL.—Mrs. Juliet M. Desai Souza, MD FRCS SURG.—H. K. Doctor, FRCS OPHTHALMOL.—H. D. Dastoor, DO Oxon ANÆSTHESIA—J. V. Karia, DA PEDIATRICS—J. M. Udani, MD DCH PHYS.—D. M. Telang, BSc MD. DENT.—K. L. Shourie, MSc PhD ANAT.—B. B. Sethna, MS FORENSIC MED.—M. B. Kanekar, MB BS OPERATIVE SURG.—M. G. Talwalkar, FRCS. PREVENTIVE AND SOC MED.—P. D. Paranjpe, MB BS DHy. 3 Assoc Profs, 6 Emer. Profs, 2 Asst Profs, 10 Lectrs, 10 Hon Lectrs, 1 Asst Lectr, 16 Teachers, 42 Tutors, 25 Jr Lectrs, 10 Jt. Lectra†

BOMBAY, *Ismael Yusuf College*, Jogeshwari (Govt.) (tel. 86088). BA, BSc. Principal—P. S. Rege, BSc(Econ) Lond 52 other Profs. and Lectrs

BOMBAY, *Jai Hind College and Basantirang Institute of Science*, 23-24 Backbay Reclamation, 'A' Road (tel. 241256). BA, MA, BSc, MSc Principal—T. M. Advani, MA LLB Vice-Principal—G. G. Kewalramani, MA LLB Sr. Prof in charge of Sci Section. T. G. Khubchandani, MSc 90 other Profs., Lectrs and Demrs.

BOMBAY, *Khalisa College*, Matunga (tel. 60534). BA, MA, BSc, MSc. Founded by Gurudwara Ctee of Shri Nankana Sahib on promptings of late Dr Ambedkar to afford facilities for higher educn primarily to students of depressed and backward classes. Now managed by Shiromani Gurudwara Parbandhak Ctee of Amritsar, Panjab. Actg Principal—Niranjan Singh, MSc Pany 65 Profs., Lectrs and Demrs

BOMBAY, *Kirti College* (tel. 62172). Under control of Deccan Educn. Soc., Poona BA, MA, BSc. Principal—M. G. Bhatte, BSc(Econ) Lond, MA

BOMBAY, *Kishunchand Chellaram College*, Dinshaw Wacha Rd., Churchgate (tel. 245344). Founded under auspices of Hyderabad (Sind) National Collegiate Bd., Bombay. MA, MSc. Founder Principal—K. M. Kundnani, MSc, 47 other Profs., Lectrs and Tutors

BOMBAY, *K. J. Somaya College*, Ghatkopar, Bombay 57 (tel. : 67551). IA, ISc. Founded 1959. Principal—A. B. Yanki, MA 31 other Profs., Lectrs and Tutors.

BOMBAY, *Law College*, Dinshaw Wacha Rd., Churchgate (tel. : 245761). Law Prelim., LLB, LL.M., PhD Principal—Khanchand Gopaldas, BA LLB 20 other Profs. and Lectrs

BOMBAY, *Magn Mathradas College of Arts*, Chowpaty, Bombay 7 (telegrams : Bhavidiya, tel. : 77451) and *Narandas Manordas Institute of Science*, Nav Gujarat, Andheri (Greater Bombay) (tel. : 86110) Under the control of Exec. Council of the Bharatiya Vidya Bhavan (Pres., Dr K. M. Munshi). MA, MSc, PhD (in arts & sci.) Principal—B. M. Naik, MA 63 other Profs., Lectrs. and Tutors.

BOMBAY, *Nar Hospital Dental College* (Munic.), Bombay 8 (telegrams : Dean Dento; tel. : 77161-5) BDS, MDS Dean—H. D. Merchant, DMD Boro 77 other Profs., Lectrs and Demrs

BOMBAY, *Narandas Manordas Institute of Science*, Andheri. See Bombay, *Magn Mathradas College of Arts*, above.

BOMBAY, *New Law College* (tel. : 62017) Founded 1954. Under the control of Modern Educn Society, Poona LLB. Principal—D. R. Kothare, BA LLB. 10 other Lectrs.

BOMBAY, *Parle College*, Vile Parle (tel. : 87004). Principal—C. B. Joshi, BA Camb, MA. 6 other Profs., 17 Lectrs., 5 Lectrs.†

BOMBAY, *Parle College of Commerce*, Dixit Rd., Vile Parle, Bombay 57 (tel. : 87004). Founded 1960 iConn. Principal—M. D. Limaye, MCom 9 other Profs. and Lectrs

BOMBAY, *Ramnaran Ruia College*, Matunga (tel. 60298) BA, BSc, DipEd Under the control of Shukhesha Prasarak Mandal, Poona. Principal and Prof. of zool —N. N. Murti, BA Madr, DIC, PhD Lond. Profs MATHS—B. Y. Oke, MSc Camb., K. V. Nayak, MA Madr PHYS—R. D. Godbole, SM M.I.T., MSc; R. D. Gupte, MSc CHEM.—B. V. Mohile, MSc, V. M. Bhavs, MSc PhD. GUJARATI—D. P. Parikh, MA MARATHI—R. S. Walimbe, MA BT PhD. SANSK.—R. R. Deshpande, MA. FRENCH—V. G. Hatalkar, DLitt Paris, MA PhD. HINDI—J. C. Jain, MA Ban., PhD. EDUCN.—R. W. Joshi, BSc BT. HIST.—V. D. Rao, MA LLB PhD; M. S. Agaskar, MA ECON—Miss C. K. Dalaya, MA. ENGL.—V. H. Kulkarni, MA, V. M. Paranjape, MA; V. T. Yardi, MA. PHILOS.—N. V. Joshi, MA DLitt Ban., L. K. Anolkar, MA. BOT—V. S. Rao, BA And., DSc, Mrs. K. Gupte, MSc STATS.—C. Y. Raosahib, MA Madr 35 other Lectrs

BOMBAY, *R. A. Podar College of Commerce and Economics*, Lakhmisi Nappa Rd., Matunga (cables : Podocom1; tel. : 60868). Under the control of the Shukhesha Prasarak Mandal, Poona BCom, MCom Principal and Prof. of ECON—L. N. Weinglar, BSc(Econ) Lond Vice-Prin-

cipals—G. P. Palekar, MCom, P. M. Tole, MA. Other Profs ECON.—B. G. Bapat, MA; Mrs Nalini Pandit, MA, M V S Rao, MA LLB. COMM—G. L. Maini, MCom, S. A. Sherlekar, BSc MA Agril, MCom ACTY—Ve B Kirtane, BSc LLB ENGL.—J. G. Pette, MA BT MATHS—U. U. Bhat, MA Madr MERCANTILE LAW—P. G. Kher, BA LLB. STATS.—P. N. Phutane, MSc 130 other Lectrs and 10 Tutors

BOMBAY, *Rishi Dayaram and Seth Hassaram National College and Seth Wassamul Assomul Science College*, Bandra (tel. : 88244) BA, MA, BSc, MSc, PhD (in sci.) Principal—L. H. Ajwani, MA 86 other Teachers.

BOMBAY, *Ruparel College*, Dadar West (tel. 61433). Conducted by the Mod. Educn. Soc., Poona. MA, MSc. Principal—N. G. Suro, MA.

BOMBAY, *St. Xavier's College*, Cruickshank Rd., Bombay 1 (tel. 262547) BA, BSc, MA, MSc, PhD (arts and sci.) Principal and Prof. of POL.—Rev. E. D'Cruz, MA Oxon. & Bon., LicPhil& Theol Greg. Other Profs. FRENCH—Rev. J. Duhr, PhD DD Greg. ENGL.—M. F. Colaco, MA LLB MATHS. and STATS.—B. S. Gai, MA, FIA. Zool.—D. M. Munshi, MSc, FLS INST.—W. Coelho, MA SANSK.—Rev. A. Esteller, MA DPhil Bori, PhD Greg. GEOL.—R. N. Sukheswala, BSc PhD. BOT.—Rev. H. Santapau, PhD Greg., DIC, BSc PhD Lond. ISLAMIC CULTURE AND URDU—N. S. Gorekar, MA ANC INDIAN CULTURE—L. B. Keny, PhD LATIN AND GREEK—Rev. J. Humbert, BA Lond CHEM.—Rev. J. M. Corbella, MSc M.I.T., DL Dub., BAPhil BEngl Barcelona SOCIOLOG.—Rev. P. Gisbert, PhD Greg. & St Louis, STIL Dub., BA Lond, LicPhil&Lit Murcia ECON.—Rev. J. Sanmarti, BSc(Econ) PhD Lond. HINDI—S. S. Nauthani, MA Alld. MARATHI—M. V. Pette, MA GUJARATI—R. C. Shah, MA PhD. PHILOS.—Rev. F. D. D'Souza, PhD DD Greg. MICROBIOL.—Yvonne M. Freitas, MSc PhD PSYCHOL.—Rev. J. M. Fuster, LicPhil LicTheol MA(Psy) C.U.A., PhD HEBREW—J. D. Aaron, BA LLB PHYS.—Rev. J. V. Bonet, LicPhil Greg., MSc PhD St Louis AVESTA AND PARSIAVI—H. K. Mirza, MA PhD Lond. ARABIC—H. S. Hamiduddin, MA. PERSIAN—M. K. Kamran, MA PALT—Mrs Minaxi V. Talim, MA PhD. 17 other Profs., 18 Lectrs., 5 Tutors, 32 Demrs., 24 Fellows.

BOMBAY, *St. Xavier's Institute of Education* (Society of Jesus), Fort (tel. : 241933) DipEd, BED, MEd, PhD Principal—Rev. A. Solanran, PhD DD Rome, MA Dub 2 other Profs and 15 Lectrs

BOMBAY, *Secondary Training College* (Govt.), Cruickshank Rd. (tel. : 26-2050). BED, MEd, PhD Principal—S. A. Rauf, MA BT 11 other Profs. and Lectrs.

BOMBAY, *Seth G. S. Medical College* (Munic.), Parel (telegrams : Gosumec; tel. : 60497). MB BS, BSc(Med), MD, MS, PhD Dean—S. V. Joglekar, MS Asst. Dean—R. B. Redkar, BSc MB BS DA Profs. & Hds of Depts. : ANAT.—

K. D. Desai, MB BS MSc MSc(Med) MED — P. Raghavan, MD PHARMACOL — U. K. Sheth, MD BS PHYSIOL — A. C. Duarte Monteiro, MB BS MSc PATHOL AND BACTERIOL — N. M. Puraldare, MD, SURG — P. K. Sen, MS, FACS BIOCHEM — R. K. Anjaria, BA MSc PhD PREV AND SOC MED — D. N. Pai, MB BS DMPH 8 Asst. Profs, 8 Lectrs, 4 Tutors, 60 Hon Lectrs and Asst Hon Lectrs

BOMBAY, Siddharth College of Arts and Science, Anand Bhavan, Fort (tel. : 253868) Under the control of the People's Educn. Soc (Chairman, R. R. Bhole, BSc LLB) BA, BSc, MA, MSc, PhD. Principal—H. R. Karnik, MA PhD Vice-Principal—G. C. Saldanha, MA LLB (arts); J. V. Deshpande, MSc PhD (sci.). 61 other Profs and Lectrs.

BOMBAY, Siddharth College of Commerce and Economics, Anand Bhavan, Fort (tel. : 253868) Under the control of People's Educn Soc. BCom, MCom Principal—J. C. Bahl, BA Pany, MCom. 4 Profs, 2 Profs J, 10 Lectrs., 6 Lectrs J, 1 Tutor, 7 Tutors.

BOMBAY, Siddharth College of Law, Anand Bhavan, Fort (tel. : 253869) Under the control of People's Educn. Soc. LLB Principal—P. T. Borale, BA LLB. 16 other Profs

BOMBAY, Sir Currimbhoy Ebrahim Memorial Dental College (Govt.), Byculla (tel. : 75454) BDS Principal—K. L. Shourie, BSc MB BS MDS Pany, MSc MEd, PhD Roch Teachers EXODONTIA AND ORAL SURG — H. L. Mulgaonkar, MB BS, FDSRCS, C T Chudgar, LDSc, S. S. Khara, BDS Pany, OPERATIVE DENT.—M. K. Sanjaya, BDS Lond, BA BSc; Kishore Chand, DDS MS; V. Subramanian, BSc BDS ORTHODONTIA—P. Prakash, BDS Pany, MS Tufts, A. C. Henrique, DDS MSc DSc(Dent) Penn. PROSTHETICS—T. M. Udani, MScD BDS; P. F. Souza-Cordeiro, BDS MS Tufts, L. De Souza, BSc BDS. DENTAL ANAT. AND DENTAL HISTOL — C. T. Chudgar, LDSc. DENTAL PATHOL AND BACTERIOL — A. M. Malaowalla, BSc BDS MAXILLO-FACIAL SURG.—C. T. Chudgar, LDSc. PERIODONTIA—K. L. Shourie, BSc MB BS MDS Pany, MSc MEd, PhD Roch, V. N. Bhatvadkar, MS BS BDS, G. B. Shankwalkar, MS BDS 11 Jr. Lectrs., 13 Clin Tutors, 2 Mechanics

BOMBAY, Sir J. J. College of Architecture, Dadabhai Naoroji Rd, Bombay (tel. : 264649). Principal—W. J. D'Lima 3 Profs. of Archit., 5 Lectrs, 19 Visiting Lectrs, 1 Asst Lectr., 10 Studio Assts, 1 Workshop Instr., 1 Demr

BOMBAY, Sophia College for Women, Bhulabhai Desai Rd (telegrams: Sophiacoll, Bombay, tel. : 40223) Under control of Society for Higher Educn of Women in India BA, MA, ISC Principal—Rev. Mother W. Waid, BA Lond, MA Oxon. 34 other Profs and Lectrs

BOMBAY, South Indian Educational Society's College of Arts & Science, Sion (tel. : 65729). Founded 1960 BA (spec), BA (gen.). ISC. Principal—A. B. Shah, MSc Pany & Bom. Vice-Principal (arts side)—R. Joshi, MA. Vice-Principal (sci. side)—G. R. Gogte, PhD DSc 34 other Profs, Lectrs, and Tutors

BOMBAY, Sydenham College of Commerce and Economics (Govt), 'B' Road, Churchgate Reclamation (tel. : 242897). BCom, MCom, PhD (in comm.). Principal—K. T. Merchant, BSc(Econ) Lond., MA LLB Other Profs : ECON—G. L. Abhyankar, MA. COMM.—B. S. Bhur, PhD Lond, MCom. ACTUARIAL SCI.—N. M. Dongre, MCom, FIA. 28 other Lectrs. and Instrs.

BOMBAY, Topiwala National Medical College (Munic), Byculla (telegrams: Namecol; tel. : 77161-65). MB BS, MS, MD, MSc(Med). Dean—L. Monteiro, MD. 84 other Teachers

BOMBAY, V. J. Technical Institute, Marunga (telegrams Vijetunst; tel. : 60921-2) BText, BE (civil, electr, mech), ME (civil, electr, mech, auto), Dipl. in Indust Management Principal, Sec, and Prof of TEXTILE TECHNOL — R. K. Mody, MSc(Tech) Manc Other Profs MECH ENGIN — ELECTR ENGIN—M. K. Dalal, MSc Lond CIVIL ENGIN—S. J. Arcewala, BE MS(SanEngin) Harv STRUCT ENGIN—B. N. Thadani, BE MECH ENGIN—H. C. Patel, MTech Khavagpur AUTO ENGIN—L. M. Rajpal, BE APPL CHEM.—G. G. Kalthod, PhD Lond. 16 other Asst Profs and over 75 Lectrs. and Tutors.

BOMBAY, Wilson College, Chowpatty (tel. : 41595) BA, BSc, MA, MSc, PhD. Principal—J. W. Airan, MSc PhD Profs.: CHEM—P. M. Barve, MSc BIOCHEM—J. W. Airan, BD MSc PhD HIST—K. M. Mathew, MA ENGL—J. C. Daruvala, MA FRENCH—B. M. Mehta, MA. GUJARATI—P. K. Shah, MA HINDI—S. N. Sharma, MA MARATHI—G. B. Gramopadhye, MA PhD MATHS—D. B. Wagh, MA. PHILOS.—S. Ookerjee, MA. PHYS.—V. D. Dabholkar, BA MSc. SANSK.—S. N. Gajendragadkar, MA PhD not — J. P. Koryal, MSc Nag., PhD Camb ZOOL—S. P. Karmarkar, MSc PhD. ECON—T. B. Desai, MA

GENERAL INFORMATION

Bombay Univ was establd. in 1857, but until the passing of the Indian Universities Act of 1904, the function of this univ., in common with that of other univs. in India, was limited to examining candidates and arranging for the courses of study which led up to its degrees. Under the act of

1904, it acquired the right of organizing teaching, arranging for univ. extension lectures, and of publishing such works as were necessary for the direct educn work it was to carry on Under the univ. act of 1928 the univ. went on to arrange for postgrad instructn and res. through its own depts.

as well as through the teachers in affiliated colls and recog. postgrad. instns, recog as postgrad teachers of the univ. As far as undergrad educn was concerned, the univ was an affiliating univ. Before the establ. of the Univ. of Sind and of regional univs in Bombay state, the jurisdiction of Bombay Univ. extended over the whole of the former province of Bombay and Sind. The univ.'s jurisdiction is now confined to the limits of greater Bombay.

With the establ. of other univs. as a measure in the decentralization and reorganization of univ. educn in the then Bombay state, the univ was reconstituted by the Bombay Univ. Act, 1953. Its special features were: (1) reconstruction of the univ. as a teaching and federal univ.—all affiliated colls became constituent colls; (2) reduction in number of elections; (3) strengthening of academic element in senate, academic council and bds of studies; (4) creation of bds. of univ. teaching, predominantly academic, empowered to control post-inter. and postgrad. instructn. in constituent colls and recog. instns. and to make recommendations to syndicate for conducting such instruction in univ. colls and instns.; (5) extension of powers of the univ. to include such activities as extra-mural teaching, univ. extension courses, trg. of students for competitive exams. for service under union and state govts., establ. of an employment bureau, students' unions and bd. of students' welfare, and provision for recognition of instns. of res. and specialized studies by syndicate.

CONSTITUTION. The senate is the governing body of the univ. The executive govt. is vested in the syndicate. The other authorities of the univ. are the academic council, the facs, the bds of univ. teaching and the bds. of studies in the various facs.

INCOME (1959-60) Total. Rs 7,573,282 (central govt., 1.8 per cent; Univ. Grants Commission, 31.3 per cent; state govt., 13.1 per cent; fees, 41.3 per cent; interest on endowments, 1 per cent; other sources, 11.5 per cent.)

FACULTIES AND DEANS. Arts Prof. V. G. Hatalkar; comm. W. R. Natu, dent. Dr. S. N. Ginnwalla, law M. P. Amin, med. Dr. A. V. Baliga; sci. Prof. L. V. Gurjar; technol. Prof. J. G. Kane.

LIBRARIES. Main univ. libr.—more than 158,000 vols., about 1500 MSS. in Arabic, Persian and Urdu, and about 6000 in Sansk. *Depul. libraries*—univ. depts. of econ., pol. & sociol.—approx. 50,000 vols, 512 theses in MSS, about 250 journals, univ. dept. of chem. technol.—more than 10,000 vols in Engl and German, about 200 vols., 38 journals, univ. dept. of stats—approx. 4660 vols, 43 journals; univ. dept. of appl. psychol.—2000 vols, 60 journals; univ. dept. of law—2053 vols, 56 journals; section in bus. management—2225 vols, 41 journals.

HOSPITALS AND LABS. RECOGNIZED BY THE UNIV. Hosps. and labs. attached to Grant

Medical Coll., Cama and Allbless hosps., hosps. and labs. associated with Seth Gordhandas Sunderdas Med. Coll., Sir Currambhoy Ebrahim Memorial Dental Hosp., Byculla, Bom., Haffkine Inst., Parel, Bom., Bai Yashwanthi Nar. Hosp. attached to Topiwala National Med. Coll.

ADMISSION. The min. qualif. for admission to courses in the facs of arts and sci. is the passing of the entrance exam., the secondary sch. cert. exam. of the S.S.C. Exam. Bd., Maharashtra state (subject to certain conditions), the matric. exam. (subject to certain conditions) of any statutory univ. in the Indian union, or an exam. recog. as equivalent to the entrance exam. (A list of recog. exams., with conditions subject to which they are recog., is publ. in the *Handbook, Pt. II*.)

The following overseas qualifs. are recog. for the purpose of entrance: Oxford and Cambridge sch. cert., matric. cert. of South African Jt. Matric. Bd. (if exam. passed with Engl., an additional lang., hist. or geog., maths and 1 other subject, or if passed in any 5 or more subjs. but with credits in at least 4 of them at one and the same exam.), G.C.E. (ordinary level) of Cambridge and London univs. (with similar conditions), London Univ. matric. cert. (if exam. passed in Engl., an addnl. lang., hist. or geog., maths and 1 other subject, or if passed in 1st or 2nd div.); Rangoon Univ. matric. cert.; G.C.E. (advanced level) of Cambridge and London univs. is considered as equivalent to the F. Y. exam. of this univ., provided the subjs. in which the candidate passes the exam. are approved by the univ. for the purpose, Cambridge and Oxford Overseas Higher Sch. Cert. exams. are equivalent to the inter. arts and sci. exams. of this univ. subject to certain conditions. Overseas qualifs. not incl. in the regns. will be considered on their merits.

Admission to univ. courses of study for the bachelor's degrees in engin. and in med. is granted only to those who have passed the univ. inter. sci. exam. or other equivalent exam. of a recognized univ. or bd. in specified groups of subjects. The min. qualif. for admission to the LLB degree course is the passing of the inter. arts, inter. sci. or inter. comm. exam. or a degree exam. in arts, sci. or comm. of the univ. or equivalent exams. of another univ. Admission to courses of study for higher degrees is granted, under certain conditions, to grads. of this, or of any other recog. univ.

FIRST DEGREES 2 yrs.—BSc(Tech) (in chem. engin., food technol., technol. of intermediates & dyes, technol. of oils, fats & waxes, technol. of pharmaceuticals & fine chemicals; technol. of pigments, paints & varnishes, technol. of plastics, textile chem.), 2½ yrs.—BPharm; 3 yrs.—BE (civil, electr., mech.), LLB (if taken from inter.), 4 yrs.—BA (general), BA (spec.), BSc, BVSc, BCom, BChemEng, BText, BDS, 5 yrs.—BArch; 4½ yrs. plus 1 yr. of internship—MB BS. Also BSc(Agr)—course prescribed by univ. but

at present no coll affiliated to the univ for this course

Note.—The univ. has not accepted the principle of introducing the 3-yr. degree course recommended by the Secondary Educn Commission

NON-COLLEGIATE STUDENTS The univ has introduced a scheme under which students who are unable to attend a coll can appear for a univ exam. without joining a coll. The scheme is not one of 'external degrees' in the ordinary sense of the term, inasmuch as students enrolling themselves as non-collegiate students have to attend courses of instructn. in certain core subjs. It combines some benefits of instructn. by teachers of the univ with the facility to appear for an exam without being a regular full-time student. The lectures have been confined to the evening hours after the regular coll hours, and are given by teachers apptd by the univ. Initially, the enrolment of non-collegiate students up to the stage of the inter arts exam only is envisaged. Classes for the 1st yr. arts students began in 1960-61. 614 students were enrolled. Under the scheme, a student on enrolment at the univ. as a non-collegiate student is permitted to appear for the 1st yr arts exam on his attending lectures in the selected subjs. of the 1st yr arts course at a constituent coll fixed as the centre for instructn. for 3 terms each of 90 working days, and to the inter arts exam. on attending lectures in the selected subjs. of the inter arts course for 3 similar terms. The extension of the scheme up to the BA degree exam. is contemplated.

HIGHER DEGREES 1 yr.—BEd, MEd, DHy, 2 yrs.—LLB (if taken after BA, BSc or BCom), MA, MSc, MSc(Agr), MSc(Med), MSc(Tech), MText, ME (auto, civil, electr, mech.), MDS, MVSc, 3 yrs.—LLM, MD, MS. Also PhD, DLitt, DSc.

DIPLOMAS Educn, 1 yr, librarianship, 1 yr for grads., 2 yrs for others, indust. management, bus. management, pharm, 2 yrs., labour welfare, 2 yrs. postgrad. Postgrad. med dipls. DA, DMRE, DV&D (venereal & dermatol), DFM, DMLT, 1 yr, DPM (psychol. med), 1½ yrs, DPH, 2 yrs.

OTHER COURSES The univ conducts classes to train grads for the I.A.S and other competitive exams. held by the Union Public Service Commission, New Delhi. Admission to these classes is open to grads of all Indian univs., but in the case of grads of univs outside Maharashtra state, applicants can be considered only from those who are at present studying in this univ.

RESEARCH There are ample facilities for res. Teachers from affiliated colls. where facilities for res. are available, are recognized for supervising students working for univ res. degrees. The following institutions are recog. by the univ as postgrad. res. instns., and certain members of their staffs have been recog. as postgrad. teachers of the univ. Bharatya Vidya Bhavan, Bombay 7; Indian Inst. of Educn., Bombay 71; Haffkine

Inst., Bombay 12, Indian Cancer Res Centre, Bombay 12, Marathi Sanshodhan Mandal, Marathi Grantha Sangrahalaya, Bombay 2; Tata Inst of Fundamental Res, Bombay 1; Taraporewala Marine Biol Res Stn, Bombay 2; Anjuman-i-Islam Urdu Res Inst., Bombay 1, Technol Lab., Indian Central Cotton Ctee, Bombay 19, Psychol Res Inst, Khar, Bombay, Bombay Natural Hist Soc, Bombay, Naval Chem & Metall Lab., Naval Dockyard, Bombay, Atomic Energy Estab., Trombay, Bombay; Bombay Labour Inst., Bombay 14. Provision has been made for admitting to exams for res. degrees grads of the univ trained in specialized res. insts. outside the univ area.

The **UNIVERSITIES' INFORMATION BUREAU** collects and furnishes information to students regarding Indian and foreign univs and other educnl instns., and helps grads to secure admission to univs, etc., in foreign countries.

FEES. Fees for tuition and/or guidance in constituent colls. : master's and PhD degrees in arts (except in psychol and geog.), comm, LLM, ME, MSc (in maths only), Rs 100 per term of 6 mos, master's degree in psychol and geog in arts and in geog in sci, Rs. 120 per term of 6 mos, master's and PhD degrees in sci (except in geog.), PhD in engin, MText, ME(Auto), Rs 150 per term of 6 mos, MD, MS, DPH, DA, DV&D, MSc(Med), PhD(Med), DPM, MDS, DMRD, DMRT, Rs 50 per term of 3 mos, DLW Rs 100 per term of 6 mos, DIM Rs 200 per term of 6 mos. Fees for univ. postgrad courses in the depts of econ, pol. & sociol, Rs 110 per term. Fees in the univ dept of chem technol. for BSc(Tech) and BChemEng courses, Rs 200 per term. Fees for res students, Rs. 100 per term. Dept of statistics, Rs 125 per term.

ACADEMIC YEAR June to April, 2 terms. Term dates (approx) : June 20 to Oct 15; Nov 11 to March 15 (med & dent, April 15). Christmas break (all facs.), Dec. 24 to Jan 6.

USUAL LANGUAGE OF INSTRUCTION. English.

EXTRA-MURAL EDUCATION Univ. extension courses of two types have been started. one (conducted in Hindi and Marathi) mainly for working class students such as mill and factory workers, the other (conducted in English) to promote knowledge, culture and the arts among people who have not had the benefit of univ educn.

STUDENT RESIDENCES. Univ. Hostel, Matunga (tel. : 62425), fee Rs. 100 to 125 per term of 6 mos; Univ Hostel, Backbay Reclamation (tel. : 243580), fees Rs. 90 to 110 per term of 6 mos, accomm for 215 men students. Individual colls. are also required to provide, by the terms of their affiliation, hostel accomm. for a fair number of their students.

NATIONAL CADET CORPS (SR DIVISION). Two bns. of the ar. div of the NCC are attached to the univ., as are also these other N.C.C. units

enign. platoon, battery unit; med. unit; air squadron; naval unit and women's division unit

STUDENT ATHLETIC FACILITIES The univ. bd. of sports organizes the sports activities of the univ. Inter-collegiate sports are arranged every yr. Individual colls. also provide facilities for indoor and outdoor games.

STUDENTS' UNIONS There is a students' union in the univ. depts. of econ., sociol., pol. & statistics. The students of the univ. dept. of chem. technol. have formed the technological assocn. Colls. also have students' unions.

PUBLICATIONS *Univ. Handbook, Pt. I* (almanac and names of members of various univ. authorities), annual, Rs. 0.50; *Univ. Handbook, Pt. II* (statutes, ordinances and regns., including exam. syllabuses), 1955 edn., Rs. 8; *Univ. Handbook, Pt. III* (text-books), 1958 edn., Rs. 3.50; *Univ.*

Handbook, Pt. IV (regns. relating to scholops., etc.), R. 1, *Calendar* (lists of grads. and successful exam. candidates), latest edn., 1938-40, Rs. 6; *Journal of Univ. of Bombay*, 5 times p.a., annual sub. for 5 issues Rs. 12, for Nos. I and IV, Rs. 3, III and V, Rs. 5, II or a single copy, Rs. 3; *Univ. Econ. and Social Series*, publd. by O.U.P. Seminar publcns. *From School to College; Bombay Univ. Sanskrit, Prakrit & Pali Series* Special publcns. in connexion with univ. centenary *A History of the Univ. of Bombay, 1857-1957*, by S. R. Dongerkery (then rector of the univ.), *A Centenary Souvenir* In addn. to the univ. journal, the univ. publcns. section publishes text-books, res. work done by students and teachers of the univ. & its colls., translations of classics, etc.

The UNIVERSITY PRESS, establd. in 1948, carries out most of the printing work of the univ.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS. *Bldgs. approaching completion*: pavilion on Lloyds recreation ground; club house in Churchgate reclamation area

HONORARY DEGREE LLD—Prof. N. Bohr

Statistics

STUDENT NUMBERS, August 1960

	Full-Time	Part-Time
Men	38,962	—
Women	12,355	—
Total	51,317	—

Distribution by Faculties *Arts*, 21,337; *comm.*, 5,431; *dent.*, 542; *law*, 3,404; *med.*, 2,349; *sci.*, 16,625; *technol.*, 1,629. Total, 51,317

Included in the figures above are —

Intermediate students, 12,910

Postgraduate students, 5,071.

New admissions, 16,685

Students from other countries (1959-60), 742. (Countries from which largest numbers came: Africa, 470; Goa, 162; Iran, 22; Malays, 17).

DEGREES AWARDED (1959-60) *Arts*. BA (spec.), 2,361; BA (gen.), 39; MA, 426; BEd, 193; MEd, 17; PhD (arts), 18. *Comm.*: BCom, 753; MCom, 147; PhD (comm.), 1. *Dent.*: BDS, 45. *Law*: LLB, 1,085; LL.M., 15. *Med.*: BSc(Med.), 2; MSc(Med.), 3; MB BS, 310; MD, 44; MSc, 25; PhD (med.), 1. *Sci.*: BSc, 1,301; MSc, 232; PhD (sci.), 31. *Technol.*: BE, 130; ME(Auto), 1; BVSc, 59; BChemEng, 16; BText, 19; MText, 2; BSc(Tech), 86; MSc(Tech), 14; BArch, 33; BPharm, 12; PhD (technol.), 3.

DIPLOMAS AWARDED (1959-60) DipEd, 223; DipLab, 25; DBM, 19; DIM, 4; DPH, 7; DA, 25; DVD, 8; DMRE, 1; DipPharm, 8.

UNIVERSITY OF CALCUTTA *

Founded 1857

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Telephone · 34 3014-9

CHANCELLOR—H.E. THE GOVERNOR OF WEST BENGAL (*ex officio*)

VICE-CHANCELLOR—S. MITRA, MD *Berl.*, FRCSEd, FRCOG, FACS, FNI

VICE-PRESIDENTS OF UNIVERSITY COLLEGES—ARTS—Professor N R. RAY, DLetPhd *Ley*, DipLib *Lond*, MA, FLA; COMM.—Professor S K BASU, MA PhD *Lond*, LAW—Principal P N BANERJEE, LL.D *McG*, MA LLB DLitt, MED—J C GUPTA, MD *Cologne*, MB, SCI—Professor R N. SEN, MA PhD *Edin*, FNI, TECHNOL.—Professor B C. GUHA, DSc PhD *Lond*, FNI

REGISTRAR—G. C. RAYCHAUDHURY, MA LLB PhD *Lond*

TREASURER—S C GHOSH, MA

CONTROLLER OF EXAMINATIONS—A. ROY, MSc

INSPECTOR OF COLLEGES—A P DAS GUPTA, MA PhD *Lond*

SECRETARY TO THE COUNCILS OF UNIVERSITY COLLEGES OF ARTS AND COMMERCE—S. MUKHERJEE, MA

SECRETARY TO THE COUNCILS OF UNIVERSITY COLLEGES OF SCIENCE AND TECHNOLOGY—B K. MUKHERJEE, DIC, MSc

SECRETARY TO THE COUNCIL OF THE UNIVERSITY COLLEGE OF MEDICINE—P. K. BANERJEE, MSc MB BS DPhil

UNIVERSITY LIBRARIAN—P C BOSE, BA DipLib

TEACHING STAFF

Agriculture

Sen, P. K., DIC, MSc PhD *Lond*.

4 Postgrad. Teachers G P. Singh Prof

Anthropology

Chattopadhyay, K. P., MSc *Camb*.

9 Postgrad. Teachers Prof

Arabic and Persian

Siddiqui, M Z., MA LLB PhD *Camb*

6 Postgrad. Teachers Asutosh Prof.

Botany

Sarkar, S M., MSc PhD Sir R. B. Ghose Prof

9 Postgrad. Teachers

Chemistry, Agricultural

Shi P. C Ray Prof.

Chemistry, Applied

Guha, B. C., DSc PhD *Lond.*, FNI

21 Postgrad. Teachers Sir R. B. Ghose Prof.

Chemistry, Pure

Chakrabarty, D., DSc, FNI Sir R. B. Ghose Prof.

Bardhan, J C., DSc *Lond. & Calc*

G. P. Singh Prof

Ghosh, B N., DSc *Lond.* Sir T. N. Palit Prof.

15 Postgrad. Teachers

Commerce

Basu, S K., MA PhD *Lond*

28 Postgrad. Teachers Hd. of Dept

Economics

Basu, S. K., MA PhD *Lond*.

(Indust. Finance) Prof.

Sen, S. N., MA PhD *Lond* Prof.

Prof.

14 Postgrad. Teachers Prof.

* Member of the Association of Universities of the British Commonwealth

Education				Physics, Applied	
Mockerjee, K. K., MA BT	Hd. of Dept.			Sengupta, A. K., DSc	Sir R. B. Ghose Prof.
18 Postgrad. Teachers				13 Postgrad. Teachers	
English				Physics, Nuclear	
Stock, Amy G., BA Oxon	Sir G. D. Banerjee Prof.			Dasgupta, N. N., MSc PhD Lond, FNI	Prof
12 Postgrad. Teachers				Physics, Pure	
Geography				Khastgur, S. R., DSc PhD, FNI	
Chatterjee, S. P., MSc PhD DipEd Lond,				Datta, A. K., DSc, FNI	G. P. Singh Prof
DLitt Paris, FGS	Prof.			Bagchi, S. N., DSc	Palit Prof
7 Postgrad. Teachers				15 Postgrad. Teachers	(Chem. F.) Prof
Geology				Physiology	
Chatterjee, N. N., MSc	Prof.			Sen, P. B., MSc	Prof
9 Postgrad. Teachers				13 Postgrad. Teachers	
History and Culture, Ancient Indian				Political Science	
Ray, N. R., DLittPhil Ley., DipLib Lond.,				Ray, N. C., MA PhD	Sutendranath Prof
MA, FLA				12 Postgrad. Teachers	Centenary Prof
•(Indian Fine Arts) Baguswari Prof					
10 Postgrad. Teachers				Psychology	
History and Culture, Islamic					Prof.
Raychaudhuri, M., MA DLitt	Prof			9 Postgrad. Teachers	
8 Postgrad. Teachers				Radiophysics and Electronics	
History, Medieval and Modern Indian				Bhar, J. N., DSc	Sir R. B. Ghose Prof
Sinha, N. K., MA PhD	Asutosh Prof			14 Postgrad. Teachers	
13 Postgrad. Teachers				Sanskrit	
Indian Languages, Modern				Sastri Asutosh, MA PhD	Asutosh Prof.
Dasgupta, S. B., MA PhD	R. Lahiri Prof.			19 Postgrad. Teachers	
14 Postgrad. Teachers				Statistics	
Journalism				Bose, P. K., MSc DPhil	Hd. of Dept
Bhattacharyya, C. K., MA LLB	Hd. of Dept.			8 Postgrad. Teachers	
8 Postgrad. Teachers				Zoology	
Mathematics, Applied				Bhaduri, J. L., DSc	Sir N. R. Sircar Prof.
Ghosh, S., DSc	Sir R. B. Ghose Prof			9 Postgrad. Teachers	
9 Postgrad. Teachers				MEDICINE	
Mathematics, Pure				Anæsthesiology	
Sen, R. N., MA PhD Edin, FNI	Hardinge Prof.			Barat, H. G., MB, FRCSEd	Hd. of Dept
10 Postgrad. Teachers				Anatomy	
Mental and Moral Science				Chatterjee, H. K., DAE Paris, MB BS	
.....	Acharyya B. N. Sil Prof.				Hd. of Dept.
13 Postgrad. Teachers				Roy, P. R., PhD St And., MB BS	Reader
Pali				Goswami, N., MB BS PhD	Lectr
Banerjee, A. C., MA PhD	Prof.			Cardiology	
6 Postgrad. Teachers				Gupta, J. C., MD Cologne, MB	Hd. of Dept.
Phonetics and Indian Linguistics				Chest Surgery	
Sen, S., MA PhD	G. P. Singh Prof.			Basu, A. K., MS, FRCS, FACS	Hd. of Dept
4 Postgrad. Teachers					

Dermatology		Pædiatrics	
Banerjee, B. N., MB, FRCPEd	Hd. of Dept.	Chaudhury, K. C., MB BS	Hd. of Dept.
Diseases of Chest		Pathology, Bacteriology and Medical Zoology	
Sen, P. K., MB <i>Beri & Calc.</i> , PhD TOD <i>Wales</i>	Hd. of Dept.	Mitra, S., MD	Hd. of Dept.
Ear, Nose and Throat		Atkat, B. K., MD BS PhD DCP <i>Lond.</i>	Lectr.
Ghosh, Major K. K., MB BS, FRCS	Hd. of Dept.	Pharmacology	
Experimental Surgery		Dasgupta, S. R., MB BS DPhil	Hd. of Dept.
Mukerjee, S. R., PhD <i>Edin.</i> , MB BS	Hd. of Dept.	Ray, B. B., MB BS	Lectr.
Medicine		Physiology, Biophysics and Biochemistry	
Banerjee, J. C., MB, MRCP	Hd. of Dept.	Sen, P. B., MSc	Hd. of Dept.
Neurology		Sinha, R., MSc MB BS DPhil	Lectr.
Ghosh, T. K., MD	Hd. of Dept.	Psychological Medicine	
Obstetrics and Gynæcology		Dey, N., DPH <i>Lond.</i> , MB, MRCPed	Hd. of Dept.
.....		Radiology and Radiotherapeutics	
Ophthalmology		Mukerji, S., DMRE <i>Camb.</i> , MB	Hd. of Dept.
Sen, K. L., DOMS <i>Lond.</i> , MB, FRCSEd	Hd. of Dept.	Surgery	
		Sen, A. K., MB DPH <i>Lond.</i> , FRCS	Hd. of Dept.

ADMINISTRATIVE AND OTHER STAFF

Law Officer : N Ray, BA LLB Asst Registrar J C Mukherjee, BA BT. Dep Controller of Exams : B B Banerjee, MA DPhil. Asst Controller of Exams : . . . Audit Officer B. Ghosh, BCom. Supt, Univ. Press S Kanjilal, BSc. Sec., Bd of Health : J K Bose, MB DPH Curator, Asutosh Museum of Indian

Art D P Ghosh, MA. Sec, Students' Advisory Bureau and Appts & Information Bd. M M R Chowdhuri, DSSc *Glar.*, BCom Univ Engineer S K Raychaudhury, BE Inspector of Hostels and Messes Mrs Nirmala Sinha, MA

UNIVERSITY COLLEGES

[IA, BA, etc., after the name of a coll means that courses are provided there for Intermediate Arts, BA, etc.]

CALCUTTA, *University College of Arts*, Calcutta 12 MA, MSc, BT, DPhil, DLitt; dipls in journalism and langs., cert. in langs. Secretary—S. Mukherjee, MA.

CALCUTTA, *University College of Commerce*, Calcutta 12 MCom, DPhil, DLitt. Secretary—S. Mukherjee, MA

CALCUTTA, *University College of Law*, Calcutta 12 (tel : B.B 207) LLB. Principal—P N Banerjee, LL.D *McG.*, MA LLB DLitt. 43 other Teachers

CALCUTTA, *University College of Medicine*,

Calcutta 12 DPhil, MD, MS, MS (ophthalmol.), MO, DPM, DMRE and dipls in basic med. sci., cardiol., dermatol., psychol. med., venercol. Secretary—P. K. Banerjee, MSc MB BS DPhil.

CALCUTTA, *University College of Science*, Calcutta 9. MA, MSc, DPhil, DSc, cert in appl psychol. Secretary—B. K. Mukherjee, DIC, MSc

CALCUTTA, *University College of Technology*, Calcutta 9 MSc(Tech), DPhil, DSc; dipl. in soap technol. Secretary—B. K. Mukherjee, DIC, MSc.

AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

AGARTALA, *Maharaja Bir Bikram College*, Agartala, Tripura State IA, ISC, BA, BSc, BCom Principal—S K Bhattacharyya, MSc 52 other Teachers

ALIPURDUAR, *Alipuduar College*, Jalpaiguri IA, ISC, BA, Principal—S C. Kar, MSc 18 other Teachers.

AMTA (HOWRAH), *Ramsaday College*. IA, ISC, BA, BSc Principal—S K Das, MA 17 other Teachers

BAGGOLA, *Sri Krishna College*, Nadia IA, BA, Principal—R. N. Basu. 8 other Teachers

BAISHNABGHATA, *Dinabandhu Andrews College*, P O Garia, 24 Parganas IA, ISC, BA, BSc Principal—M. C. Pal, MSc 41 other Teachers

BALLYGUNGE (CALCUTTA), *Muralidhar Girls' College* IA, BA Principal—J Chakrabarti, MA 32 other Teachers.

BALURGHAT (W. DINAJPUR), *Balurghat College*. IA, ISC, BA, BSc Principal—K M Das, MA. 25 other Teachers

BANGAON, *Dinabandhu Mahavidyalaya*, 24 Parganas. IA, ISC, BA, BSc Principal—S K Ghoshal, MA 24 other Teachers

BANKURA, *Sammilani Medical College*. 1st MB BS Principal—Lt-Col B. N. Hazra, MSc MB, MRCP. 42 other Teachers

BARASAT, *Barasat College* (Govt), 24 Parganas. IA, ISC, BA, BSc Principal—C P Banerjee, MA 23 other Teachers.

BARISHA, *Vivekananda College*, 24 Parganas IA, ISC, BA, BSc. Principal—S K Roy, DSc 68 other Teachers

BARRACKPORE, *Rashtraguru Swendranath College* IA, BA Principal—S Ganguly, MA PhD. 18 other Teachers

BASIRHAT, *Basirhat College*, 24 Parganas IA, BA, BCom. Principal—G C. Ray, MA. 13 other Teachers

BELGACHIA, *R G Kar Medical College*, 1 Belgachia Rd., Calcutta (tel : B B 6302). ISC, MB BS, DGO, DOMS, DA. Principal—Dr. H. K. Indira. 118 other Teachers

BELUR MATH, *Ramakrishna Mission Vidyamandir*, Howrah IA, ISC, BA, BSc. Principal—Swarni Tejasananda, MA 26 other Teachers.

BERHAMPUR, *Berhampur Girls' College*, Murshidabad IA, ISC, BA, BSc. Principal—Miss Priti Gupta, MA BT 27 other Teachers

BERHAMPUR, *Krishnath College*, Murshidabad IA, ISC, BA, BSc, BCom Principal—T P Das, MA. 43 other Teachers.

BERHAMPUR, *Union Christian Training College*, Murshidabad BT Principal—A K Kisku, MA BT 7 other Teachers

CALCUTTA, *All India Institute of Hygiene and Public Health* (Govt.), 110 Chittaranjan Ave (tel : B.B 5981) DPH, ME and DSc in public health, dipls in maternity & child welfare, dietetics, indus. health, nutrition Principal—Miss M. Sen, MPH Harv, MB BS DMCW 89 other Teachers

CALCUTTA, *Asutosh College*, 9 Russa Rd (tel : South 917) IA, ISC, BA, BSc. Principal—K N Sen, MA LLB 91 other Teachers

CALCUTTA, *Bangabasi College* (tel B.B. 1368) IA, ISC, BA, BSc, BCom Principal—P K Bose, BA Oxon., LLB MA. 128 other Teachers

CALCUTTA, *Basantidebi College*, 147A Rash Behari Ave., Calcutta IA, ISC, BA, BSc Principal—Mrs. E. Sen, MA BT 11 other Teachers

CALCUTTA (SIMPUR), *Bengal Engineering College* (Govt.), Botanic Garden, Howrah (tel : Howrah 700). BE, BArch, Dip in Town and Regional Planning. Principal—A C. Ray, BSc Glas., MIE(India) 209 other Teachers

CALCUTTA, *Bengal Music College*, 10 Dover Lane IMus, BMus Principal—N G. Banerjee 15 other Teachers.

CALCUTTA, *Bengal Veterinary College*, Belgachia BVSc Principal—K. C. Mukherjee. 41 other Teachers.

CALCUTTA, *Bethune College* (Girls) (Govt.), 181 Cornwallis St (tel B.B 786). IA, ISC, BA, BSc Principal—Mrs. Mrinalini Emerson, MA LLB 46 other Teachers

CALCUTTA, *Brahmananda K C College*, P O. Alambazar, Calcutta 35. IA, ISC, BA, BSc. Principal—S K. Majumdar, MSc 37 other Teachers.

CALCUTTA, *Charuchandra College*, 22 Lake Rd IA, ISC, BA, BCom Principal—K. Basu, DSc 55 other Teachers

CALCUTTA, *Chittaranjan Sree Sadan College*, 148 Russa Rd DGO, DCH, DMCW Principal—B Sengupta, MD 17 other Teachers.

CALCUTTA, *City College*, 102/1 Amherst St (tel : B.B. 1565). IA, ISC, BA, BSc, BCom Principal—A K Sen, MA 367 other Teachers

CALCUTTA, *College of Leather Technology*, Canal South Rd BSc(Tech), Cert in Tanning. Principal—M. Banerjee, MSc Leeds, BSc. 16 other Teachers.

CALCUTTA, *Damd Hare Training College* (Govt.), 25/3 Ballygunge Circular Rd. (tel : P K. 1814). BT. Principal—J C Dasgupta, MA PhD 33 other Teachers.

CALCUTTA, *Dental College and Hospital* (Govt.), 114 Lower Circular Rd. BDS. Principal—U. S. Malik, MB BS 25 other Teachers

CALCUTTA, *Deshbandhu College for Girls*, 58A Sadanand Rd IA, BA Principal—J. C Guha, MA LLB 16 other Teachers

CALCUTTA, (DUM DUM), *Dum Dum Motyheel College* IA, ISC Principal—D P Acharyya, MA 36 other Teachers

CALCUTTA (DUM DUM), *Saranyu Nandu College for Women*, 30 Jessore Rd IA, ISC, BA, BSc Principal—L Ghosh, BLitt DipEd Oxon 37 other Teachers

CALCUTTA, *Goenka College of Commerce and Business Administration*, 210 Bow Bazar St BCom. Principal—P. C Ghosh 30 other Teachers.

CALCUTTA, *Gokhale Memorial Girls' College*, 1/1 Harsh Mukherjee Rd (tel. P. K. 509) IA, ISC, BA Principal—Miss S B Rani Ghose, MA BT TD Lond, DPhil 28 other Teachers

CALCUTTA, *Gurudas College*, 132 Raja Rajendralal Mitra Rd IA, ISC, BA, BSc Principal—J K Dasgupta, MA PhD Lond 41 other Teachers

CALCUTTA, *Institute of Education for Women*, Hasting House, Alipore BT Principal—Mrs Nalini Das, MA 19 other Teachers

CALCUTTA, *Jogmaya Devi College*, 92 Syamaprasad Mookerjee Rd IA, ISC, BA, BSc Principal—Major J. C Banerjee, MA.

CALCUTTA, *Khudiram Bose Central College*, 71/2A, Cornwallis St IA Principal—P C Chakraborty, MA 6 other Teachers

CALCUTTA, *Lady Brabourne College* (Govt), P/2, Suhrawardy Ave (tel. Park 324) IA, ISC, BA, BSc Principal—Mrs. Roma Choudhuri, MA DPhil Oxon 49 other Teachers.

CALCUTTA, *Loveto House* (Girls), 7 Middleton Row. IA, ISC, BA, BT Principal—Mother F Clare 21 other Teachers

CALCUTTA, *Maharaja Manindra Chandra College*, 20 Ramkanta Bose St. (tel. B. B. 4562). IA, ISC, BA, BSc, BCom Principal—A. C Banerjee, MA PhD 71 other Teachers

CALCUTTA, *Maulana Asad College* (Govt), 8 Wellesley St (tel. Central 3737) IA, ISC, BA, BSc Principal—B C Mukherjee, MA 51 other Teachers

CALCUTTA, *Medical College*, 88 College St (tel. B B 3670) MB BS, DOMS, TDD, DGO Principal—K C Sarbaobhukary, MB BS, FRCS, FRCSed 112 other Teachers

CALCUTTA, *National Medical College*, 32 Gora-chand Rd. (tel. P. K. 554) MB BS Principal—K. N. Bagchi, DTM Lib. & Calc, MB, FRIC, FNI. 93 other Teachers.

CALCUTTA, *Nibatan Sarkar Medical College*, 38 Lower Circular Rd (tel. Central 3213) MB BS Principal—R N Guhamajumdar 99 other Teachers.

CALCUTTA, *Presidency College* (Govt), 86/1 College St (tel. B. B. 875). IA, ISC, BA, BSc.

Principal—S K Basu, MA PhD Lond 98 other Teachers

CALCUTTA, *Sangit Bharati*, 25B Syamaprasad Mookerjee Rd, Calcutta 25. IMus, BMus Principal—S Goswami, MA. 10 other Teachers

CALCUTTA, *St. Joseph's College*, 69 Bow Bazar St (tel. B.B. 4259) IA, ISC. Principal—Rev. Brother J A McPhileury 6 other Teachers

CALCUTTA, *St Paul's Cathedral Mission College*, 33/1 Amherst St (tel. 2600) IA, ISC, BA, BSc Principal—C S Shaw, MSc DPhil 44 other Teachers

CALCUTTA, *St Xavier's College*, 30 Park St (tel. P B 995) IA, ISC, BA, BSc, BCom. Principal—Rev A. Veistraeten, MSc. 51 other Teachers Students of religious persuasions other than R C are admitted

CALCUTTA, *Sanskrit College* (Govt), 1 Bankim Chatterjee St. (tel. B.B. 734) IA, BA Principal—G N Bhattacharyya, MA DLitt Sastru 32 other Teachers.

CALCUTTA, *Scottish Church College*, 4 Cornwallis Square (tel. B. B. 151) IA, ISC, BA, BSc, BT. Principal—M K Mundie, MSc 74 other Teachers Formerly the General Assembly's Instn and Duff Coll

CALCUTTA, *Seth Anandram Yaspuria College*, 10 Raja Nabakissen St (tel. B.B. 6164) IA, ISC, BA, BCom Principal—S C Pal, MA BT 26 other Teachers

CALCUTTA, *Seth Sooraymull Jagan Guls' College*, 186 Chittaranjan Ave IA, BA Principal—Mrs Indrabati Singh, MA LT 17 other Teachers

CALCUTTA, *South Calcutta Girls' College*, 72 Lansdowne Rd IA, BA. Principal—Mrs Bani Mitra, MA BT. 21 other Teachers

CALCUTTA, *Sri Shikshayatan* (College Dept), 11 Lord Sinha Rd. IA, BA Principal—Mrs. B Sarkar, MA 23 other Teachers

CALCUTTA, *Surenranath College*, 24 Harrison Rd. IA, ISC, BA, BSc, BCom. Principal—R M Roy, MSc. 99 other Teachers

CALCUTTA, *Surenranath College for Women*, 24 Harrison Rd IA, BA Principal—Miss M. Dattagupta, MA

CALCUTTA, *Surenranath Law College*, 24 Harrison Rd (tel. B. B. 29) LLB. Principal—S K Datta, MA LLB 12 other Teachers.

CALCUTTA, *Syamaprasad College*, 92 Syamaprasad Mookerjee Rd IA, BCom. Principal—S. N Chakraborty, MA

CALCUTTA, *Victoria Institution for Girls*, 78B Upper Circular Rd (tel. B.B. 685) IA, ISC, BA, BSc. Principal—Mrs Suprabha Chaudhuri, MA 37 other Teachers

CALCUTTA, *Vidyavagar College*, 39 Sankar Ghosh Lane (tel. B. B. 2085). IA, ISC, BA, BSc, BCom Principal—D C Ray, MSc 128 other Teachers

CALCUTTA, *Vidyasagar College for Women*, 39 Sankar Ghosh Lane IA, ISc, BA, BSc Principal—A K Banerjee, MSc

CALCUTTA, *Viharial College for Home Science*, Hastings House, Calcutta 27 IA, ISc, BA, BSc Principal—Miss J P Dasgupta, MA BT TD

CALCUTTA, *Vygyarh J R College*, Calcutta 32. IA, ISc, BA Principal—A K Chakrabarty. 21 other Teachers

CALCUTTA, *Women's Christian College*, 6 Greek Church Row (tel. South 831). IA, BA Principal—Stella Bose 18 other Teachers.

CALCUTTA, *Women's College*, 204 Cornwallis St. (tel. B.B. 565) IA, BA Principal—S M Bhattacharyya, MA PhD 20 other Teachers

CONTAI, *Prabhatkumar College*, Midnapur IA, ISc, BA, BSc Principal—B B Maudy, MSc 31 other Teachers

COOCH-BIHAR, *Dinhati College*, P.O. Dinhati, Cooch-Bihar IA, BA Principal—R C Nath, MA 10 other Teachers

COOCH-BIHAR, *Victoria College* IA, ISc, BA, BSc Principal—K C Mukherjee, MSc 30 other Teachers

DAKSHINESWAR (CALCUTTA 3), *Hiralal Majumdar Memorial College for Women* IA, BA Principal—S C Chakraborty, MA

DARJEELING, *Govt College* IA, ISc, BA, BSc Principal—C C Dasgupta, MA PhD. 39 other Teachers

DARJEELING, *Sree Ramkrishna B T College* BT Principal—Major B N Sen 10 other Teachers

DARJEELING, *St Joseph's College* IA, ISc, BA, BSc Principal—Rev E. Gales. 26 other Teachers.

DARJEELING, *St. Paul's College*. IA, ISc. Principal—L J. Goddard, MA Camb 5 other Teachers.

DIAMOND HARBOUR, *Fakirchandra College*, 24 Parganas IA, ISc, BA, BSc Principal—A C. Ray, MSc 19 other Teachers

GARBETA, *Garbeta College*, Midnapore IA, ISc, BA, BSc Principal—B B Banerjee, MA LLB. 15 other Teachers

GOBARDANGA, *Hindu College*, 24 Parganas IA, ISc, BA, BSc, BCom Principal—A C. Banerjee, MA 32 other Teachers

HABRAH, *Sree Chatanya College*, 24 Parganas IA, ISc, BA, BSc Principal—B B Bhattacharyya 39 other Teachers.

HOWRAH, *Bagnan College* IA, BA Principal—J C Das, MA. 15 other Teachers.

HOWRAH, *Girls' College*, 5/3 Mahatma Gandhi Rd IA, BA. Principal—B. K Bhattacharyya, MA 34 other Teachers.

HOWRAH, *Narasinha Dutt College*, 129 Bellishas Rd IA, ISc, BA, BSc, BCom Principal—R R Chakraborty, MA 48 other Teachers

JALPAIGURI, *Anandachandra College* IA, ISc, BA, BSc Principal—B. C Delchoudhury, MA 33 other Teachers

JALPAIGURI, *Prasannadev Women's College*. IA, ISc, BA, BSc Principal—Miss Charupama Bose, MA 23 other Teachers

JANGIPUR, *Jangipur College*, Murshidabad IA, ISc, BA, BSc Principal—J N Datta, MSc 25 other Teachers

JHARGRAM, *Ray College* (Govt), Midnapur IA, ISc, ISc(Ag), BA, BSc Principal—D N. Dasgupta. 25 other Teachers

JHAGANJ, *Sripatsingh College*, Murshidabad IA, ISc, BA, BSc. Principal—J P Sengupta, MA BT. 18 other Teachers

KAILASAHAR, *Kailasahar Ramakrishna Mahavidyalaya*, Tripura IA, ISc, BA Principal—S Dhar, MA DPhil 15 other Teachers.

KALIMPONG, *Scottish Universities Mission College*, Darjeeling IA. Principal—Rev W. M. Scott, MA BD DipEd 10 other Teachers

KANDI, *Kandi Ray College*, Murshidabad IA, ISc, BA, BSc Principal—D L Das, MA PhD 24 other Teachers

KHARAGPUR, *Kharagpur College*, Midnapur IA, ISc, BA, BSc, BCom Principal—H B Sarkar, MA. 26 other Teachers.

KRISHNAGAR, *Girls' College*, Nadia. IA, BA Principal—Miss D Basu, BSc Lond 13 other Teachers

KRISHNAGAR, *Krishnagar College* (Govt), Nadia IA, ISc, BA, BSc Principal—P B Mukherjee, MA 65 other Teachers

MAHISADAL, *Ray College*, Midnapur IA, BA, ISc, BSc Principal—D K Basu, MA 22 other Teachers

MALDAH, *Maldah College*. IA, ISc, BA, BSc Principal—D K Bhattacharyya, MA 24 other Teachers

MIDNAPUR, *Midnapur College* IA, ISc, BA, BSc Principal—P N Ghosh, MA. 39 other Teachers

MIDNAPUR, *Midnapur Women's College*. IA, ISc, BA, BSc Principal—Mrs. S Mandie, MA 20 other Teachers

MIDNAPUR, *Sebayatan Shikshan Mahavidyalaya*, Jhargram. BT. Principal—...

MIDNAPUR, *Sitananda College*, Nandigram Pre-Univ, 3-yr BA, 3-yr BSc Principal—

NABADWIP, *Vidyasagar College*, Nadia IA, ISc, BA, BSc Principal—A N Mukherjee, MA 22 other Teachers.

NAIHATI, *Rishi Bankimchandra College*, 24 Parganas IA, ISc, BA, BSc, BCom Principal—S. R. Das Gupta, MA PhD. 47 other Teachers

NEW BARRACKPUR, *New Barrackpur College*, P O. Aharampur, 24 Parganas Pre-Univ, 3-yr BA Principal—J C Chakraborty, MA

RAIGANJ, *Raiganj College*, West Dinajpur IA, ISc, BA, BSc Principal—S N Ray, MA 23 other Teachers

RAMKRISHNA, *Ramkrishna Mission College*, Narendrapur, 24 Parganas Pre-Univ, 3-yr BA, 3-yr BSc Principal—Swami Lokeswarananda, MA

RANAGHAT, *Ranaghat College*, Nadia IA, ISc, BA Principal—B. C. Roy, MSc LLB 18 other Teachers

SANTIPUR, *Santipur College*, Nadia IA, ISc, BA, BSc Principal—B. Sanyal, MA 22 other Teachers

SIBPUR, *Dinabandhu Institution*, 412-1 G.T.R., Sibpur, Howrah IA, ISc, BA, BSc, BCom Principal—N G Chaudhuri, MA 33 other Teachers

SILIGURI, *Siliguri College*, Darjeeling IA, ISc, BA, BSc Principal—D C Chattarjee, MA 21 other Teachers

SONADA, *Salesian College*, Darjeeling IA, BA Principal—N Lo Groi 9 other Teachers

TAKI, *Taki Govt College*, 24 Parganas IA, ISc, BA, BSc Principal—T S Bhattacharyya, MA DLitt 22 other Teachers

TAMLUK, *Tamalupta Mahavidyalaya*, Midnapur. IA, ISc, BA, BSc, BCom Principal—D Chaudhuri, MA LLB 25 other Teachers

TANGRAKHALI, *Tangrahal Bankim Sardar College* IA, BA Principal—P K Das Gupta, MA 10 other Teachers

ULUBERIA, *Uluberia College*, Howrah IA, ISc, BA Principal—J Banerjee, MSc 15 other Teachers

GENERAL INFORMATION

In July 1854 the court of directors of the East India Company sent a dispatch to the governor-general of India in council directing the organization of the univs of Calcutta, Madras and Bombay. In pursuance of that dispatch the Univ of Calcutta was incorporated on Jan 24, 1857. The jurisdiction of the univ. extended at first throughout practically the whole of northern India, but the territorial jurisdiction has now been limited to the state of West Bengal. The Indian Universities Act of 1904 empowered the univ to make necessary arrangements for the instruction of students, and though most of the teaching continued to be imparted in the affiliated colls., teaching in some of the higher branches began to be organized under univ management. In 1917 a new scheme for postgrad teaching and res centralized postgrad teaching in Calcutta within, and under the control of, the univ. The act of 1951 provided for higher postgrad. teaching in affiliated colls along with the univ colls.

CONSTITUTION The senate of 151 members (89 elected, 15 nominated, 47 *ex officio*) is the supreme governing body. The syndicate of 23 members (14 elected, 9 *ex officio*) is the admin body. The academic council of 72 members (21 elected, 51 *ex officio*) is mainly concerned with making regns for different courses. There are 12 facs and several bds of studies. The normal work of the univ. is carried on under the direction of the vice-chancellor and syndicate. Control of financial affairs is in the hands of the finance cttee.

POSTGRADUATE TEACHING AND RESEARCH Postgrad teaching in arts, comm, law, sci. and technol. is conducted by the relevant univ coll councils. The univ provides for postgrad. teaching in . Engl, Sanskrit, Pali, Arabic, Persian, Hebrew, Syriac, Greek, Latin, French, German, Bengali, mod Indian langs other than Bengali, compar philol, mental & moral philos., hist

(incl anc. Indian hist & culture and Islamic hist & culture), econ, pol sci, comm, maths. (pure & appl), biochem, archaeol, sociol and human relations, phys (pure & appl), chem (pure & appl), physiol, bot, geol, zool. & compar anat, psychol & appl psychol, anthropol, stats, geog, radio-phys. & electronics, educn, law.

The dept of postgrad teaching and res. in arts is located in the Asutosh bldg. and the dept of econ in Emerald Bower at B.T. Rd. Postgrad teaching and res in the different branches of scientific and technol studies are carried on in the Univ Coll of Science at 92 Upper Circular Rd and 35 Ballygunge Circular Rd, where opportunities for res have been provided by the establishment of extensive labs and up-to-date workshops.

INCOME (1959-60) Total income, Rs 9,963,000 (govt grant, 25.3 per cent, exam fees, 43.5 per cent, other fees, 31.2 per cent).

FACULTIES AND DEANS *Agric*, Prof P. K. Sen; *arts*, Prof N. R. Ray (anc. Indian hist & culture), *comm*, Prof S. K. Basu (econ.); *educn*, Prof S. P. Chatterjee (geog), *engin*, Principal A. C. Ray, *fine arts & music*, B. B. Ghosh, *journalism*, Principal A. C. Banerjee; *law*, R. P. Mukherjee, *med*, Dr S. Mitra, *sci*, Prof B. C. Guha (appl chem.), *technol*, Prof A. K. Sengupta (appl phys), *vet sci.*, Capt. P. B. Mukherjee.

LIBRARIES The univ. library contains over 329,183 vols., excl. pamphlets and periodicals, a fairly large collection of Bengali, Sanskrit and Tibetan MSS. and a large number of rotograph copies of Persian and Arabic MSS. Other libraries attached to the univ. include the Law Coll. library and libraries of the depts. of sci and technol.

LABORATORIES. Phys. and chem. (pure & appl.), appl maths, psychol, biol, etc.; Saha inst of

nuclear phys (*see below*) MUSEUMS: Asutosh museum of Indian art (including art collections of the late Puranchand Nahar) and museums attached to the anthropol and comm sections of the univ

USUAL LANGUAGE OF INSTRUCTION. English

ADMISSION. A cert. of having passed the univ matric. exam (up to 1951), or sch final exam or higher sec exams of W Bengal secondary bd. of educn., or pre-univ. exam conducted by the univ., or any exam considered by syndicate as its equivalent. Applicants of foreign students considered on their merits

FIRST DEGREES 2 yrs—BA, BMus, BCom, BSc, BSc(Tech), 3 yrs—BA, BSc, BCom, BSc(Ag), 4 yrs.—BE, BDS, BVSc&AH; 5 yrs—BArch, MB BS

HIGHER DEGREES Exam for LL.M may be taken by any law grad, 1 yr—BT, ME (public health), MTech, 2 yrs—LLB, MA, MSc, MSc(Ag), MPlanning, BTech; 3 yrs.—MSc (Tech) Degrees by thesis MArch, ME, MD, MS, MS (ophthalmol.), MO, DPhil (in agric, arts or sci), DPhilEngin, DPhilMed, DLitt, DSc, DScEng, DSc (public health), LLD The DLitt, DSc and LLD may also be conferred as honorary degrees

DIPLOMAS Nutrition, 9 mos, anesth, basic med sci, cardiol, dermatol, dietetics, DTM&H, psychol med, venerol, 1 yr, DCH, DOMS, 2 yrs., DIH, DPH, DGO, about 2 yrs., tuberculous dis, maternity & child welfare, about 2½ yrs., DMR&E, 4 yrs Other dipla: dom. sci, home sci, langs, librarianship, soap technol, soc. work, spoken English, 1 yr, journalism, museol, DTRP (in engin.), 2 yrs, appl anthropol, jute technol., 3 yrs

CERTIFICATES Appl psychol, langs, 1 yr.; jute technol, tanning, 3 yrs

FEES. Exam fees range from Rs. 22 for pie-univ. and Rs 30 for IA to Rs 80 for MA DPhil and DLitt exams Rs 200 and Rs 300 respectively Tuition fees: no standard rate, fees vary from coll to coll and for different courses

ACADEMIC YEAR begins on June 1

'OPEN' POSTGRADUATE AWARD Bipradas Pal Chowdhury fellowship (Rs 5000 for 1 yr) awarded every 3 yrs for foreign scholars to study in India

RESIDENCE There are three classes of lodgings for students. (a) collegiate hostels, (b) non-collegiate hostels under external management, (c) halls maintained and hostels recog. by the bd of residence Seat rents vary from Rs 9 to Rs. 12 p.m Messing charges from Rs. 55 to Rs 75 p.m 70 such residences exist in Calcutta with total accomm for 5260 students Of these, 14 are for women only, having 750 places

BOARD OF HEALTH undertakes med exam. of students, maintains eye clinic and arranges for inspection of hostels, halls, etc.

SPORTS BOARD. Organizes inter-coll. and inter-univ. physical activities

APPOINTMENTS AND INFORMATION BOARD AND STUDENTS' ADVISORY BUREAU (OVERSEAS). This organization has 3 sections

Appointments service. secures employment for grads and arranges practical trg. facilities in every field of employment, besides providing advice and guidance on careers

Advisory services the bd gives advice to students at any time during and after their univ. course, on all matters relating to employment, careers, etc., offers advice and information regarding facilities available for higher studies and res and for practical trg overseas, admission to academic and professional instns, and facilities for practical trg in indust. and commercial firms.

Information service provides up-to-date information regarding courses of study offered by the Indian univs, and technical instns, various competitive exams, and other recruitments by govt and semi-govt. depts, etc.

DEPARTMENT OF TEACHING, 161 Symaprasad Mookerjee Rd, Calcutta 26 (tel South 1868). Arrangements have been made in this dept for teaching the BT course, and MA or MSc course in educn

SAHA INSTITUTE OF NUCLEAR PHYSICS, 92 Upper Circular Rd, Calcutta, 19 (tel. P.K. 1985). Establd in 1951, the inst provides MSc and post-MSc instrcn and facilities for res The inst received donations from the public and grants from the govt of India and the univ. for its establt. It is an all-India inst in which 40 per cent. of places are meant for students coming from other states of India. Dir—Prof B. D Nag-chaudhuri, MSc PhD Calif

INSTITUTE OF JUTE TECHNOLOGY, 35 Ballygunge Circular Rd, Calcutta, 19 (tel. P.K. 1985). Establd under auspices of the univ. by the Indian Jute Mills Assocn., the inst. is maintained under a governing body of which the vice-chancellor is chairman and the pres of the assocn is an *ex-officio* member It is financed by the assocn The inst. trains annually 50 sci. grads or undergrads A cert course in jute technol. has been started

DEPARTMENT OF SOCIAL WORK The appts bd, in collaboration with industries and govt of India, started the dipl course in soc work to give trg. to their labour welfare officers An all-India Inst of Soc. Welfare and Business Management, where facilities for trg in general as well as indust. welfare are provided, has been establd.

SPECIAL LECTURES Eminent scholars from India and abroad are, from time to time, invited by the univ to deliver courses of lectures on subjects in which they have specialized These lectures, after delivery, are printed and publd by the univ.

STUDENTS' UNIONS. There are students' unions in colls and various extra-academic activities are normally organized by them.

PUBLICATIONS *Calendar*, Rs. 12 annually; *Univ. Regulations*, Rs. 7, *Convocation Addresses*, 1924-32 and 1915-23, each Rs. 5, *Calcutta Review*, monthly, annual sub. Rs. 7.8 inland, 14 shillings foreign, *Journals* of depts of letters, *Journal* of the dept of sci, prices may vary from vol. to vol., Sir Asutosh Mookerjee Silver Jubilee vols.—vols. 1, 11, and vol. III in 3 parts, Rs. 11.4 each, *Bulletin* of math society, etc. Other publications (over 600 vols.) on anc Indian culture, hist., philos., law, econ., maths., lang., educn.

and sci. Catalogue of univ. publiens may be had on applicn. to the registrar

UNIVERSITY PRESS, 48 Hazra Rd. Supt. S. Kanjilal, BSc. The univ. undertakes the publication of specialized lectures delivered by the univ. profs., lectrs. and readers, theses of successful candidates for degrees, scholps. and prizes, and results of res. work carried out by univ. profs., lectrs. and res. assts., besides a number of periodicals, annuals and serials

THE YEAR 1960

RETIREMENTS Prof P. B. Sarkar (chem.), Prof D. N. Banerjee (pol. sci.).

Statistics

STUDENT NUMBERS, 1959-60
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	93,495	14,075
Women	28,554	271
Total	122,049	14,346

Distribution by Faculties. *Agric.*, 158; *arts*, 71,241, *comm.*, 11,572, *educn.*, 1346, *engin.*, 1327; *fine arts & music*, 50; *journalism*, 122, *law*, 3736, *med.*, 3648, *sci.*, 42,584, *technol.*, 384, *vet. sci.*, 227. Total 136,395

Included in the figures above are:—

Intermediate students, 80,606

Postgraduate students, 4527

New admissions, 63,523

Students from other countries, 367 (Countries

from which largest numbers came: E. Pakistan, 280; Ceylon, 38; Nepal, 34, Burma, 7)

DEGREES AWARDED (1959) *Agric.* BSc(Ag), 25, MSc(Ag), 9 *Arts.* BA, 4557, BA (hons.), 699; MA, 1006, DPhil, 15. *Comm.* BCom, 3011, MCom, 325 *Educn.* BT, 1102, MA, 21, MSc, 5 *Engin.* BE(Arch), 7, BE(Civil), 103, BE(Elec), 21, BE(Mech), 32, BE(Met), 24, ME(Elec), 1, ME(PH), 28 *Fine arts & music* BMus, 4, *Med.* BDS, 13, MB BS, 628, MD, 2, MO, 2, MS, 5, DPhil, 2 *Sci.*: BSc, 2401; BSc (hons.), 426; MSc, 301, DPhil, 45, DSc, 4 *Technol.* BSc, 9, MSc(Tech), 83 *Vet. sci.* BVSc, 45

DIPLOMAS AWARDED (1959) Business management, 20; lang., 10, lib., 73, soc. work, 89; DTRP, 5, journalism, 28, DA, 9, DCH, 24, DTM&H, 35, diet, 2, DGO, 32, DIH, 10; nutr., 2; DOMS, 11; DPH, 62, TDD, 7, dom. sci., 54, home sci., 4

CERTIFICATES AWARDED (1959) Lang., 40, TT(Art&Apprec), 13; appl. psychol., 9

UNIVERSITY OF DELHI*

Founded 1922

Postal Address : Delhi 6, India
Cables and Telegrams : University, Delhi, India
Telephone : Delhi 28121

VISITOR—THE PRESIDENT OF THE REPUBLIC OF INDIA (*ex officio*)
CHIEF RECTOR—THE CHIEF COMMISSIONER OF THE STATE OF DELHI (*ex officio*)
CHANCELLOR—S. RADHAKRISHNAN, MA *Madr.* & *Oxon.*, DLitt LLD DL DCL, FBA, Vice-President of the Republic of India
PRO-CHANCELLOR—B. P. SINHA, MA BL LLD, Chief Justice of India
VICE-CHANCELLOR—. . .
TREASURER—M. S. BHATNAGAR, Joint Secretary, Ministry of Finance, Government of India
REGISTRAR—T. P. S. IYER, MA
LIBRARIAN—S. DAS GUPTA, MA (on leave)
PROCTOR—L. R. SIVASUBRAMANIAN, BA ML

APPOINTED (§) AND RECOGNIZED TEACHERS OF THE UNIVERSITY

(for classes above Intermediate standard)

[† = Part-Time, (CCA), (DP), etc. ‡ abbreviations for the names of constituent colls and instns. listed on pp 503-504]

Teachers other than those specifically named as Professors and Readers are Lecturers or other teachers of the University

African Studies

...
...
Verma, S. N., MA PhD
Prasad, A., MA PhD
Singh, D
Jaquey, E. D
Ramchandani, R. R., MA
Goel, O. P., MA
Bajpai, K. B., MA
Luthra, V. P., MA PhD

Anthropology

Biswas, P. C., MSc *Calc.*, PhD *Berl.*
Mehra, J. D., MSc
Triwari, S. C., MSc
Sharma, A
Mong, I. P. S., MSc
Sanwal, R. D., MSc
Kumar, N., MSc
Mitra, A. K., MSc PhD

Arabic

Fariq, K. A., MA PhD *Ahg.*
Abidi, S. A. H., MA PhD

(Econ.) Prof

Organizer §
Reader §
Reader §
Reader §
Lectr. §
Lectr.
Lectr.
Lectr.
Lectr.

Architecture (DP)

Ghuman, Mrs. Elizabeth S., BSc(Arch)
Dutt, P. N., DipinArch
Vaidya, V. B., DipinArch
Sankaralingam, S., BE(Civil) CE
Kacker, R. N., DipinArch
Sani, B. S., BA BArch
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Singh, M, MA	(K)	Wake, Rev. H M W, MA <i>Oxon</i>	(S)
Marjara, H S, MA	(K)	Pal, Y, MA	(HR)
Ispalani, G S, MA	(K)	Panigrahi, D N, MA PhD	(R)
Dhawan, Y. P., MA	(DB)	Kapoor, Miss U., MA	(I)
Jan, J K, MA	(DB)	Grover, B L, MA	(HR)
Rajkumar, Miss N, MA	(LSR)	Chakravarty, S, MA	(S)
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Bhasker, P N, MA	(DAV)	Srivastava, U S, MA	(R)
Dhooria, R L, MA	(DAV)	Dua, R P, MA	(D)
Jungalwalla, Mrs. P N., MA MLitt	(JD)	Vohra, M L., MA	(C)
Kapoor, Mrs U., MA	(JD)	Khanna, Miss S, MA	(I)
Dhir, Miss B V., MA	(P)	Bhardwaj, Miss S., MA	(I)
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Swarup, Mrs. H. Lata, MA	(K)	Sethi, P, MA	(KM)
Roy, Mrs. P, MA	(LSR)	Nath, Mrs L., MA	(LSR)
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Paintal, Mrs. B K, MA	(LSR)	Bhatia, Miss P, MA	(P)
Khanna, R. K., MA	(DAV)	Dixit, Miss P, MA	(M)
Bhatia, O P, MA	(D)	Khanna, Miss I, MA	(M)
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Bajaj, U., MA	(I)	Singh, F, MA PhD	(KH)
Haider, S., MA	(H)	Sharma, D, MA DLit	Reader§
		Gupta, Mrs. K, MA	(LSR)
		Bakshi, Miss S., MA	(LSR)
		Champakalakshmi, Miss R.	(LSR)
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		Melhotra, P L, MA	(DS)
		Sharma, K. L., MA	(DS)
		John, H. H., MA	(S)
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Arduin, R, DiplinFrenchLang

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Geography, see Comm and Geog.**Hindi, see Sanskrit and Hindi****History**

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International Studies

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Talwar, J P, MA	(H)	Gaddekar, N E, MB BS <i>Bom</i> ,	
Sarkar, H N, MA	(H)	DMRE <i>Camb</i>	(PCI)
Gupta, C. P., MA	(R)	Dhanda, P C., MRCP	(PCI)
Agarwal, K. C. MA	(R)	Sen, S K., FRCS	(PCI)
Soni, R N, MA	(D)	George, A T, MB BS, MRCP,	
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Lal, B, MA	(KM)	Madan, P, MB BS	(LHMC)
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		Malhotra, Mrs P., MB BS	(LHMC)
		Bhardwaj, O P, MB MS	(LHMC)
		Indra Bahl, MB BS	(LHMC)
		Gupta, R, MB BS	(LHMC)
		Bagga, O P, MD BS	(LHMC)
		Shankra, P, MB BS MA	(LHMC)
		Singh, H S, MB BS	(LHMC)
		Mullick, S, MB BS	(LHMC)
		Gupta, S R, MB BS	(LHMC)
		Arora, V D, MB BS	(LHMC)
		Edwards, M, MB BS	(LHMC)
		Kini, K M, MB BS	(LHMC)
		Pundlik, P. G, MB BS	(LHMC)
		Aggarwal, S, MB BS	(LHMC)
		Sastry, M S, MB BS	(LHMC)
		Kumar, S, MD MS	(LHMC)
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		Sakuya, R, MB BS	(LHMC)
		Gupta, S, MB BS	(LHMC)
		Gogate, L., MB BS	(LHMC)
		Abraham, S, MB BS	(LHMC)
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		Bhujwals, R, MB BS	(LHMC)
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Viswanathan, R, BA MD TDD, MRCP	Reader		
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& <i>Lond.</i> , DTM&H <i>Lond</i>	(LHMC)		
Choudhuri, M., MB BS <i>Panj</i> , FRCS	(LHMC)		
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	(LHMC)		
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	(LHMC)		
Malkani, P K, MB BS <i>Panj</i> , FRCOG	(LHMC)		
Padmavati, S, MB BS <i>Rangoon</i> , MRCP			
	(LHMC)		
Dass, A, MB BS <i>Panj</i>	(LHMC)		
Bhatia, S. L., BA MB BChir <i>Camb.</i>	(LHMC)		
Itchappa, Mrs S, MB BS DLO	(LHMC)		
Mathias, J, MB MS DGO <i>Madr.</i>	(LHMC)		
Malhotra, C L, MD BS	(LHMC)		
de Monte, A J H, DipBact <i>Mane</i>	(PCI)		
Shrivastava, D N, MD <i>Luck</i> , DTD	(PCI)		
Venkitasubramanian, T. A., MSc PhD	(PCI)		
Chakravarty, S C., MB MS(Med) <i>Penn.</i>	(PCI)		
Bikram, Mrs B, MB BS	(LHMC)		
Kaur, Mrs B, MB BS <i>Panj</i>	Lectr.		
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Dwivedi, B D, MB BS	(MAM)		
Khanna, K K, MB BS	(MAM)		
Sinha, B P, MD BS PhD	(MAM)		
Singh, G., MSc PhD, FRIC	(MAM)		

Ayer, J, MB BS
 Seth, R., MB BS
 Virmani, P, MB BS, FRCS
 Gupta, S D, MB MS
 Keer, J K., MB MS
 Mukerjee, S., MB BS, FRCS
 Gaud, S, MB BS DA
 Gupta, S., MB BS DV
 Santakey, S, MB MS
 Rajni, C K., MD BS
 Karup, R, MB BS DOMS
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 Taneja, B. L., MB, MRCP
 Bajaj, I. D, MB MS
 Singh, S, MB MS
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Nursing (N)

Mathews, Gwen A., MSc
 Majumdar, Miss Kamla
 Peareylal, Miss Sarla
 Sulochana, Miss Aroon V
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 Gomez, Edna
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 Kapoor, R L, MA
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Punjabi

Kohli, S. S., MA PhD

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 (LHMC) Uppal, S. S, MA (K)
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 (LHMC) Singh, Balwant, MA (DS)
 (LHMC) Singh, Joginder, MA (K)
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 (MAM) Ahuja, Y D, MA PhD Reader
 (MAM) Faruqi, K. A, MA PhD *Agra* Lectr
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 (M) Trigunayat, G. C., MSc PhD
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 (PGE) Anand, S. R., MSc
 (PGE) Mathur, S. V., MSc
 (I) Lal, B., MSc
 (D) Gupta, O. P., MSc PhD
 (LSR) Kohli, B. J., MSc
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 (NI) Gupta, B. K., MSc
 (NI) Ludra, Miss K., MSc
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(S)
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 (R) Grover, V., MA
 (D) Pillai, R. C., MA LLB
 (D) Nadir, K. L., MA PhD
 (D) Jain, S. K., MA PhD

Prof. §
 Reader §
 Lectr. §
 Lectr. §
 (H)
 (R)
 (KM)
 (KM)
 (K)
 (DB)
 (K)
 (H)
 (R)
 (D)
 (H)
 (KM)
 (KM)
 (C)
 (R)
 (LSR)
 (LSR)
 (SD)
 (JD)
 (DS)
 (DS)
 (DB)
 Lectr.
 Lectr.

Rai, Mrs S., MA PhD	(H)	Gulal, H, MA	(DAV)
Kaushik, R. P., MA	(H)	Kale, M, MA	(R)
Bhagat, R. N., MA	(R)	Mahajan, B, MA	(H)
Qureshi, Z. R., MA	(D)	Malhotra, Miss Usha, MA	(M)
Bala, Miss Y., MA	(D)	Jam, Mrs. Nirmala, MA	(LSR)
Kapoor, N. S., MA	(K)	Ojha, K. P., MA	(C)
Nangia, Mrs P., MA	(LSR)	Ojha, Mandhata, MA	(DB)
Nagpal, Miss P., MA	(JD)	Prakash, Mrs K., MA	(I)
Srivastava, P., MA	(P)	Darshini, S. P., MA	(I)
		Parshad, R. K., MA	(DB)
Russian		Sharma, Mrs. Sudha, MA	(M)
Chakravorty, C. N., BA	Lectr. §	Triwari, B. N., MA DPhil	(KM)
Mukerjee, G., MA	Lectr. §	Tyagi, Miss Usha, MA	(LSR)
Ray, B. N.	Lectr.	Verma, Miss Sautosh, MA	(LSR)
Jain, Mrs M. K., MA	Lectr.	Singh, Miss M., MA	(I)
Yakunin, Mrs V., DipRussian	Lectr.	Bhat, M. R. M., MA	(H)
		Chawdhry, M. L., MA	(K)
		Goel, Miss Kusum	(LSR)
Sanskrit and Hindi		Pal, J., MA Vidyasankar	(HR)
Choudhuri, N. N., MA PhD Calc.,		Lal, K., MA	(DAV)
Shastri Kavya-Vyakar Tirtha	Prof. §	Rastogi, R. C., MA	(R)
Nagach, N., MA DLitt	Prof. §	Usha, Mrs Satyavrat	(LSR)
Sinha, Mrs Savitri, MA PhD	Reader §	Sharma, R. L., MA	(D)
Sanatak, V., MA PhD	Reader §	Verma, Mrs A	(M)
Singh, U. B., MA PhD	Lectr. §	Kohli, O. P., MA	(HR)
Yogi, S. B., MA Shastri	(S)	Sadhu Ram, MA	(KM)
Arya, V., MA	(S)	Abrol, Miss S., MA	(JD)
Ojha, D., MA PhD	(H)	Arora, S., MA	(P)
Ashrey, R., MA	(H)	Rao, Mrs., MA LLB	(LSR)
Sharma, G. R., MA	(R)	Bhatnagar, Mrs H., MA LLB	(JD)
Saroj, B. B., MA	(R)	Pushpa Puri, Miss, MA	(JD)
Nigam, S. N., MA		Kumari, A., MA	(JD)
Jain, V. K., MA PhD	(D)	Gupta, Mrs A., MA PhD	(P)
Bhatt, B. N., MA Agra, PhD	(D)	Puri, Mrs U., MA	(P)
Gautam, M. M., MA PhD	(D)	Sharma, G. R., MA PhD	(KM)
Srivastava, Mrs Sneha, MA	(I)	Gupta, C. B., MA DLitt	(H)
Ambeika, Mrs Sushila, MA	(I)	Gupta Sen, Miss P., MA	(I)
Bhatt, Miss Sita, MA	(on leave) (I)	Chaudhuri, Mrs S., MA	(M)
Debv., Miss Nomita, MA	(I)	Gupta, Miss K., MA LLB	(M)
Narain, Mrs. Sushma, MA	(I)	Sahai, Miss Y., MA	(I)
Shromuni, Mrs. Asha, MA	(I)	Villa, Miss P., MA	(I)
Prakash, O., MA PhD Agra, Shastri Panj	(HR)	Grover, Miss S., MA	(LI)
Chaudhary, S. D., MA Shastri Panj, PhD	(HR)	Kaushik, Mrs G. R. K., MA	(LSR)
Joshi, R. V.	Reader §	Sharma, Miss U. R., MA	(LSR)
Chaubey, M. N.	Lectr. §	Passi, Mrs. Krishna, MA PhD	(LSR)
Shastri, I. C.	Lectr. §	Khanna, Miss Saroj, MA	(LSR)
Pandey, Mrs U., MA PhD	(IP)	Arya, Miss U., MA	(LSR)
Mathur, Miss R., MA	(IP)	Taneja, Miss S., MA	(LSR)
Saroop, R., MA Vidya Vachaspati	(HR)	Sharma, N. D., MA	(DAV)
Gopal, R., MA PhD	(HR)	Jagdish Kumar, MA	(DAV)
Mathur, Mrs. Shanti, MA Ray	(M)	Vijay Kumar, MA	(DAV)
Sanghi, Mrs. Kamla, MA Calc.	(M)	Bhardwaj, K., MA	(SD)
Gupta, Mrs Vimla, MA	(M)	Gupta, S. C., MA PhD	(SD)
Sharma, Miss Shakuntala, MA	(M)	Bhardwaj, J. C., MA	(SD)
Chugh, S. P., MA	(KM)	Roon Narain, MA	(H)
Singh, Harbhajan, MA	(K)	Sant, D. C., MA	(DS)
Awasthi, B. B., MA	(K)	Harsh Kumar, MA	(S)
Kumar, M., MA	(K)	Chauhan, R. S., MA	(K)
Gupta, S. C., MA	(DB)	Rana, S. S., MA	(K)
Chaunbey, M. N., MA	Lectr. §	Verma, R. L., MA	(DB)
Bali, T. N. M., MA	(KM)	Sundari, Miss N. T., MA	(I)
Birmla, Miss Rani, MA	(N)	Shrimati, Mrs. M., MA	(I)
Ram Singh, C., MA	(K)		
Goel, U. Y. K., MA PhD	(R)	Sindhi	
Gulati, Miss Saroj, MA	†(LI)	Jhangiani, S. M., MA	(DB)

Social Work (SW)

Gore, M. S., MA DipSSA (on leave)
 Gangrade, K. D., MA BCom DipSSA
 Jain, S. C., MA
 Iyer, S. S., MA
 Pathak, S. H., MA
 Phadke, S. V., BA MSW
 Mansingh, Mrs. R. K., MA Bom (on leave)
 Mathur, J. S.
 Rande, S. N., MA MS DipSSA
 Mukherjee, Miss S., MA DipSSA
 Vaid, K. N., MA DipSW
 Kanwar, Miss K., MA
 Sharma, H. P., MA
 Ranade, S. N., MA MSc
 Mokherjee, Miss S., MA

Textile Engineering (DP)

Srivastava, R. N., BSText
 Goswami, J. B., MSc
 Saxena, K. S.
 Varma, H. K., LTM Bom
 Ghosh, B., DipFineArts VB.
 Seshadri, P. V., BSc(Text)
 Swami, N. M., BSc Leeds
 Dutta, B., BSc BText
 Sadasivam, M. S., BScText

Rao, D. S., BSc DipAeron

Urdu, see Persian and Urdu

Zoology

Johri, L. N., DSc Reader§
 Chandy, Mary, PhD Reader§
 Saxena, K. N., MSc DPhil All. Reader§
 Vishnoi, H. S., MSc Lectr. §
 Dutt, M. K., MSc DPhil Lectr. §
 Menon, P. S., MSc Lectr. §
 Sarkar, H. L., MSc Lectr. §
 Rajamannar, P. V., MSc Lectr. §
 Majumdar, N. N., MSc PhD Lectr. §
 Sudaishan, Miss, MSc Lectr. §
 Pillai, M. K., MSc Lectr. §
 Vijaykumar, Mrs. Zena Lectr. (LI)
 Nagar, S. K., MSc Lectr. (D)
 Singh, K., MSc Lectr. (K)
 Dass, C. M. S., MSc PhD Lectr. §
 Seshadri, Miss C., MSc PhD Lectr.
 Prasad, M. R. N., MSc PhD Lectr.
 Sehgal, S. S., MSc PhD Lectr.
 Moona, J. S., MSc (R)
 Ahmad, S., MSc (D)
 Kaul, P. M., MSc (DB)
 Shuromany, P. A., MSc (DB)

ADMINISTRATIVE AND OTHER STAFF

Provost, Gwyer Hall. C. J. Chacko, MA PhD
 Master, Jubilee Hall. Sec to Vice-
 Chancellor H. Chandra, MA Dep Registrar
 S. K. Sarkar, MA BL Sports Officer S. C.
 Nanda, MA. Asst Registrar, Fac. of Sci. H.

Gopal, BA LLB Asst Registrar K. N. Thusu,
 BA Asst Registrar (Accounts) K. Chander,
 BA(Com) Information Officer T. V. Rag-
 havan, MA DipJ Med Officer A. K. Bhargava,
 MD

CONSTITUENT COLLEGES AND INSTITUTIONS

[(CIE), (D), etc. = abbreviations for the colleges in Teaching Staff list, above; BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc.]

DELHI, *Central Institute of Education* (CIE), Univ Enclave (tel. : 25509) BEd, MEd and res Principal—E. A. Pires, MA Bom & Lond., PhD Bom 16 other Teachers

DELHI, *Delhi College* (D), Ajmeri Gate (tel. : 26802). Preparatory, pre-med, BA, BSc, BCom, BA (hons), BSc (hons), MSc, MA. Principal—M. M. Begg, MA. 67 other Teachers.

DELHI, *Delhi Polytechnic* (DP), Kashmere Gate (tel. : 24870) BE (civil, electr, mech), BChE, BText Principal—S. C. Sen, BSc Glas. 63 other Teachers

DELHI, *Delhi School of Economics* (DSE), Univ. Enclave (tel. : 28121/23). Postgrad dipl. in econ. admin. and business management, MA (in econ. econ. stats, sociol.), MCom and res. Dir.—Prof. B. N. Ganguli, MA PhD Glas. 20 other Teachers

DELHI, *Delhi School of Social Work* (SW), University Rd. (tel. : 23991). MA (soc. work) Principal—M. S. Gore, MA. 16 other Teachers.

DELHI, *Deshbandhu College* (DB), Kalkaji (tel. : 34565). Preparatory, pre-med, BA, BSc, BA (hons). Principal—A. N. Banerji, MA PhD. 51 other Teachers

DELHI, *Hansraj College* (HR) (tel. : 26747) Preparatory, pre-med, BA, BSc, BA (hons), BSc (hons.), MA, MSc Principal—S. Narayan, MSc PhD 41 other Teachers

DELHI, *Hindu College* (H), Univ. Enclave (tel. : 24345) Preparatory sci., pre-med, BA, BSc, BA (hons), BSc (hons.), MA, MSc. Principal—R. N. Mathur, MA. 60 other Teachers.

DELHI, *Indraprastha College for Women* (I), Alipore Rd. (tel. : 26253) Preparatory, BA, BSc, BA (hons), BSc (hons.), MA, MSc Principal—Miss Basanti Das Gupta, MA. 57 other Teachers

DELHI, *Kirti Mai College* (KM) (tel. : 26861) Preparatory, pre-med, BA, BSc, BA (hons.),

BSc (hons.), MA, MSc Principal—Sarup Singh, MA PhD 47 other Teachers

DELHI, *Miranda House* (M), Univ. Enclave (tel. 28123/ext. 15). BA, BSc, BA (hons.), BSc (hons.), MA, MSc Principal—Mrs S Krishna-sami, MA 45 other Teachers

DELHI, *Ramjas College* (R), Univ. Enclave (tel. 23706). Preparatory, pre-med, BA, BSc, BCom, BA (hons.), BSc (hons.), MA, MSc Principal—B. B. Gupta, MA. 46 other Teachers.

DELHI, *St. Stephen's College* (S), Univ. Enclave (tel. 25086). BA, BSc, BA (hons.), BSc (hons.), MA, MSc Principal—S C Sircar, MA 33 other Teachers.

DELHI, *S G T B Khalsa College* (K), Karol Bagh (tel. 53380). Preparatory, pre-med, BA, BSc, BA (hons.), BSc (hons.), MA, MSc Off Principal—G. S. Bal, MSc 43 other Teachers

DELHI, *Shri Ram College of Commerce* (C), Univ. Enclave (tel. 23905). BA (hons.), MA, BCom, MCom Principal—J N Vaish, MA 32 other Teachers

DELHI, *Vallabhbhai Patel Chest Institute* (VP) (tel. 23846). MSc, MD, DTD, cert. in med lab technol Dir.—R Vishwanathan, BA MD DTD, MRCP. 24 other Teachers

NEW DELHI, *College of Nursing* (N), Jaswant Singh Rd. (tel. 41/ext. 135). BScN (hons.), MSc (in nursing) Principal—A Mathews, MSc 36 other Teachers (including 14 External Lectrs)

NEW DELHI, *Dyal Singh (Day)* (DS), Rouse Ave (tel. 47990). Preparatory, BA, BA (hons.) Principal—K K Dewett, MA PhD. 26 other Teachers

NEW DELHI, *Dyal Singh (Evening) Camp College* (tel. 40999). Preparatory, BA Principal—K K Dewett, MA PhD 18 other Teachers

NEW DELHI, *Indian School of International Studies* (IS), Sapru House (tel. 47065) PhD

Dir—A. Appadorai, MA PhD 15 other Teachers

NEW DELHI, *Janki Devi Mahavidyalaya* (JD), Rouse Ave. Preparatory, BA, BA (hons.) Principal—Mrs P N Jungalwalla, MA MLitt 15 other Teachers.

NEW DELHI, *Lady Hardinge Medical College* (LHMC) (tel. 47201). MB BS, MD, MS, MSc, dipl in child health, dipl. in anaesthesia. Principal—Mrs. M Chaudhuri, MB BS, FRCS. 30 other Teachers.

NEW DELHI, *Lady Irwin College* (LI), Sikandra Rd (tel. 47747). BScHomeSc, BED, MSc (in nutrition) Directress—Mrs. B. Tara Bai, MA. 31 other Teachers.

NEW DELHI, *Lady Shri Ram College for Women* (LSR) (tel. 27588). Preparatory, BA, BA (hons.), MA Principal—H. P. Dastoor, MA PhD 54 other Teachers

NEW DELHI, *Maulana Azad Medical College* (MAM) (tel. 45262). MB BS, MSc (in physiol), dipl in child health Principal—Col. B L Taneja, MD, MRCP 16 other Teachers

NEW DELHI, *P G D A V College* (DAV) (tel. 48586). Preparatory, BA, BSc, BA (hons.), BSc (hons.) Principal—R N Chopra, BA Leeds, MSc MA 18 other Teachers

NEW DELHI, *Pramila College* (P), Hardinge Ave (tel. 40810). Preparatory, BA Principal—D A. Upadhyaya, MA LT 12 other Teachers

NEW DELHI, *Sanatan Dharma College* (SD), Anand Parbat (tel. 55530). Preparatory, BA. Principal—R N. Rai, MSc PhD 18 other Teachers

NEW DELHI, *School of Planning and Architecture*, Indraprastha Estate (tel. 45892). BArch. Dir—T J Manickam, BSc BArch Lsv 18 other Teachers

GENERAL INFORMATION

The univ. was establd by the Delhi Univ Act (Act VIII of 1922). The original idea of the govt. and legislature was the establd, and incorporation of a unitary teaching and residential univ on the model recommended by the Calcutta univ. commission. However, this could not be achieved at once, and the univ continued to recognize several colls in which instructn was provided under prescribed conditions and provision was made for residence of students.

From 1923, when the univ was given a permanent home in the old vice-regal lodge, the idea of a federal univ, gradually took shape and the last decade has witnessed rapid growth and devel. Owing to the large influx of population after 1947, the number of students increased considerably and new colls. were started. The univ. also accepted the extension of the degree course

from 2 yrs. to 3 yrs. as part of the reconstruction scheme for higher sec educn in Delhi. The scheme included the abolition of the inter. exam., the extension of the high sch. course by 1 yr. (i.e. extension from 10 to 11 yrs.), and the institution of a 3-yr. degree course in the univ. (see below).

The Delhi Univ. Amendment Act, 1952, has made important changes, based on recommendations of the univ. educn. commission, 1950. The univ is now a teaching and affiliating univ. Affiliated colls (there are none at present) will be permitted to impart instructn only up to the bachelor's degree. The jurisdiction of the univ. extends over the whole of Delhi state, instead of being limited to a radius of 10 mls from convocation hall. The president of India, who was the chancellor, has now become the visitor of the univ, and the chancellor is elected by the

court The vice-chancellor is a whole-time paid officer. Provision has also been made for the appt. of a pro-vice-chancellor to assist the vice-chancellor.

CONSTITUTION. The chancellor is the head, the vice-chancellor the principal executive and academic officer, of the univ. The following are the principal univ. authorities: the court, consisting of about 100 members; the executive council, which consists of about 17 members and controls and administers univ. property and funds; the academic council, which is responsible for the maintenance of standards of instrcn., educn. and exam. within the univ. Each fac., subject to the control of the academic council, has charge of the teaching, courses of study and res. work in such subjects as may be assigned to it by the ordinances.

FACULTIES AND DEANS. *Arts*, Prof N N Choudhuri (Sanskrit), *educn.*, Principal E A Pires; *law*, Prof L R Sivsubramanian, *med scis.*, Dr R Viswesnathan; *music & fine arts*, Dr R L Roy, *sci.*, Prof P C Biswas (anthropol.), *soc. scis.*, Prof C. J. Chacko (pol sci.), *technol.*, Principal S C Sen (mech engin)

LIBRARIES Central univ library, 117,151 vols., also deptl libraries Libraries of constituent colls., more than 345,010 vols

BOTANICAL MUSEUM

ADMISSION. Students are not eligible for admission to a degree course unless they have passed the inter exam. of an Indian univ incorporated by any law for the time being in force, or the higher sec. exam. of the bd. of higher sec. educn for Delhi state, or an exam. recognized as equivalent, and also possess any further qualif required. Candidates for admission must be 16 or, if admitted to the 2nd yr of a degree course, 17 yrs of age.

NON-MEMBERS OF THE UNIV. The dean of a fac. may permit a non-member of the univ. to attend one or more courses of univ. lectures or practicals on payment of the prescribed fees. Any person so admitted shall not be entitled to appear in any exam. of the univ., but the dean may grant a cert attesting that he has attended the course.

FIRST DEGREES 3 yrs from preparatory—BA pass, BA honrs (in econ., Engl., hist, langs, maths, philos, pol sci, mathl stats., philos & econ & pol sci, pol. sci & law), BSc pass, BSc honrs. (in bot., chem, maths, phys, zool), BScHomeSc, BCom; 3 yrs. from preparatory—BScN honrs., BE (civil, electr., mech.), BChE, BText; 5 yrs from inter or high sec exam—BArch, MB BS (plus 1 yr post-exam. practical trg)

HIGHER DEGREES. 1 yr—BED, Med (after BED), 2 yrs.—MA (in African studies, econ, econ. stats., hist, langs, maths, mathl. stats., philos., pol. sci., psychol., soc. work, sociol.), MSc (in anthropol., bot., chem, phys., zool.), MSc (in anat, bacteriol., nursing, nutrition,

physiol., pharmacol.), MCom, MLibSc (after dipl. in libr. sci.), MD (in med, obstet. & gynæcol., pathol.), MS, LLM (after BCL or LLB); 3 yrs.—LLB, BCL; res. degrees—LLD, PhD

DIPLOMAS Russian, 1 yr after cert. in Russian, Hindi, Panjabi, Urdu, each 2 yrs., business management, 3 yrs., anaesthesia, child health, econ. admin., libr. sci., tuberculous dis., each 1 yr postgrad

CERTIFICATES French, German, Italian, Hausa, Swahili, med lab. technol., proficiency in law (Panjab), each 1 yr; proficiency in Russian, 1 yr. with double periods.

WOMEN'S EDUCATION There is an advisory bd. of women's (non-collegiate) educn. Women are allowed to appear privately, through this bd., at BA, MA and LLB exams. The bd. also organizes preparatory courses in the evg for women students.

FEES Min. tuition fees payable for 12 mos.: undergrad. courses, Rs 15 p.m. (incl grad courses, Rs 18 p.m. Cost of living (incl coll residential fees) varies from Rs. 100 to Rs. 125 p.m.

ACADEMIC YEAR July to April, 3 terms Term dates (approx) July 16 to Oct. 3, Oct. 14 to Dec 23; Jan. 4 to April 30.

LANGUAGE OF INSTRUCTION. English in the univ for all degree courses except in the mod. Indian langs courses, where the lang concerned is used. Students have the option of using Hindi in the admission exam in the facs of arts and soc scis and in all subjects in the qualifying and BA (pass) exams

SCHOLARSHIPS 6 resident scholps. of Rs. 100 p.m. and 6 scholps. of Rs. 25 p.m. open to students both of Delhi and outside entering the univ for first degree. Awarded annually on result of competitive exam. Scholars are required to study for an honrs. degree in the univ. Resident scholars reside in a coll.

'OPEN' POSTGRADUATE AWARDS 6 'open' postgrad scholps. of Rs. 100 and 3 'open' resident fellowships of Rs 200 p.m. awarded annually under all-India scheme. Deserving students who require financial assistance may qualify for Pdt M N Dar scholps of Rs. 75 p.m. for resident, Rs 30 p.m. for non-resident, students

INDIAN SCHOOL OF INTERNATIONAL STUDIES. A centre of advanced study for students from India and abroad, concerned esp with pol, econ. and soc developments in Asia. See also p 504.

RESIDENCE. Each coll. provides some residential accomm. for its own students. Univ. halls: Gwyer Hall, accomm. for 110 postgrad students in addn. to a number of res. students and teachers; Jubilee Hall, accomm. for 129 students, med officer. Both halls are situated within the univ. enclave. Monthly expenditure, Rs. 90 approx.

MILITARY FORMATION N C C. (first Delhi bn). Strength sr. div., 12 officers, 555 cadets

STUDENT ATHLETIC FACILITIES There is a univ. athletic assocn and a univ sports officer. Sports facilities are provided by each of the colls and halls. Games played incl. cricket, hockey, football, tennis and volley-ball.

EMPLOYMENT BUREAU The bureau provides a

student counselling service and assists grads of the univ in obtaining suitable appts.

STUDENTS' UNIONS. Apart from the students' union in each coll, there is a central univ. union.

PUBLICATIONS *Calendar* (1959), Rs. 5 50 n.p.; *Courses of Reading, Question Papers, Annual Report and Annual Accounts* (free); *Convocation Addresses* (free)

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	10,807	3480
Women	6,352	135
Total	17,159	3615

Distribution by Faculties *Arts & soc scis*, 14,721; *educn*, 291; *law*, 750; *med. scis*, 842; *music*, 15; *sci*, 3614; *technol*, 667

Included in the figures above are —

Preparatory and Pre-Medical students, 3420 (2304 m, 1116 w)

Postgraduate students, 3484

New admissions, 9930

Students from other countries, 290 (Countries from which largest numbers came: British E Africa, 104; Thailand, 44; Nepal, 23).

DEGREES AWARDED (1959-60). BA pass, 738; BA hons, 436; BCom, 259; MA, 385; MCom, 15; BEd, 91; MEd, 14; LLB, 299; BCL, 4; LLM, 5; MB BS, 28; MD, 3; MS, 2; BSc pass, 153; BSc hons, 104; BScHomeSc, 38; BScN hons., 19; BArch, 1; BE(Elect), 22; BE(Mech), 25; BChE, 8; BText, 6; MSc, 69

DIPLOMAS AWARDED (1959-60) Bus management, 25; econ admin, 2; library sci, 18; Russian, 17

CERTIFICATES AWARDED (1959-60) French, 39; Italian, 13; German, 37; proficiency in law, 145; Russian, 37

UNIVERSITY OF GAUHATI

Founded 1948

Postal Address : Gauhati, Assam, India
Cables and Telegrams : University, Gauhati
Telephone : Gauhati 101

CHANCELLOR—THE GOVERNOR OF ASSAM (*ex officio*)

VICE-CHANCELLOR, PRESIDENT OF ACADEMIC COUNCIL, AND CHAIRMAN OF EXECUTIVE COUNCIL—PROFESSOR H C BHUYAN, MSc Calc, PhD

REGISTRAR—P DATTA, MA BL Calc.

DEPUTY REGISTRAR—C DAS, MA BL Calc.

TREASURER—K C BHATTACHARYA, MA Calc

SECRETARY, UNIVERSITY CLASSES—

TEACHING STAFF

Agricultural Botany

Mayumdar, S K, PhD Durh, BSc
BSc(Agr) (on leave) Reader
Rajan, A K, MSc(Agric) Ban. Lectr
Wamanan, P Lectr
Goswami, R N., MSc(Agric) Lectr
Dasgupta, P R Lectr
Goswami, L. C, MSc(Agric) Lectr

Chaudhury, Mrs. Asunmoni, MSc Calc, PhD Lond Lectr
Kamal, K G, MSc PhD Saug. Lectr
Raghaban Nayar, M G, MSc Lectr
Bhargwa, H. D., MSc Lectr

Commerce

Sabharwal, D C, MA Glas, BCom Edu Prof
Saikia, K N, MA Calc, LLB Reader
Gogoi, P, MA Calc, DPhil Lectr
Goswami, P C, MA Calc, LLB

Anthropology

Goswami, M C, MA BT Calc Reader
Das, B M, MSc DPhil Lectr
Dowara, S, MA Calc Lectr
Deka, Mrs. Usha, MSc Calc (on leave) Lectr
Mahapatra, L. K., MA Calc (on leave) Lectr
Bhagabati, A C, MSc Lectr
Sarma, T, MSc Lectr

(on leave) Lectr.
Joseph, A C, MCom And Lectr
Mehrotra, S. N, MCom Lectr
Sarma, D C, BCom Lectr
Sarma, M C, MCom Lectr
Datta, N. C, MCom Lectr
Hazari, P, MCom Lectr
Medhi, K., MCom Lectr

Assamese

Barua, B K, MA BL Calc, PhD Lond Prof
Neog, M, MA Calc, DPhil Reader
Sarma, S N, MA Calc, DPhil Reader
Goswami, G. C, MA Lectr
Biswas, S., MA Calc. Lectr.

Economics

Thomas, P C, MA PhD Madr Prof
Sarangapani, S, BA Madr Reader
Krishnamurthy, K, MA Madr. Lectr
Bardalai, U. N, MCom Lectr
Sarma, D, MA Lectr

Botany

Baruah, H K, MSc Calc., PhD Camb., FLS Prof
Das, N, MSc Calc, PhD Lond Reader
Baishya, D N, MSc Lectr
Satyanarayan, G, BSc PhD Madr Lectr
Konger, G, MSc DPhil Lectr

Education

Dasgupta, D C, MA EdD Calif. Reader
Kar, B. C, MA Lond. & Gauh, BT TD Reader
Saikia, S., MA Lectr
Borah, K P, MA Ban. Lectr
Devi, Mrs Renu, MA Lectr
Hazari, A C., MA BL BT Calc. Lectr

Chemistry

Barua, R K, MSc Calc, PhD Prof
Siddhanta, N N. S., MSc PhD Ban. Reader

English

Goswami, P. D., MA Calc., DPhil Reader
Ganguli, M. K., MA Calc. Reader

Dutta, A., MA PhD	Reader	Mathematics	
Sarma, G V. L. N., MA Ban.	Lectr.	Thawani, V. D., MA Camb.	(on leave) Prof.
Bhattacharyya, S C, MA PhD	(on leave) Lectr.	Bezbaru, Miss Amala, MSc	(on leave) Lectr.
Lais, A, MA	Lectr.	Deka, B, MSc	(on leave) Lectr.
Kakati, B, MA	Lectr.	Mahanta, M, MA Ban.	Lectr.
Datta, H. N., MA Calc	Lectr.	Tamuly, B. K., MA	Lectr.
		Deb Misra, A, MA	Lectr.

Geography

Das, H P, MA Calc, PhD Lond.	Reader
Barthakur, M, MA Alld.	Lectr.
Pal, D. K., MA Calc.	(on leave) Lectr.
Taher, M, MA	Lectr.
Banerjee, M K, MSc	Lectr.
Dalua, A., MA	Lectr.
Paul, S, MA	Lectr.

Philosophy

Sarma, R R., MA PhD Calc.	Reader
Bagchi, K. K, MA	Lectr.
Krishnakutty, M, MA	Lectr.
Pahi, B, MA	Lectr.

Geology

Choudhury, J M, MSc Ban, PhD Lond.	Reader
Bhattacharyya, C C, MSc	(on leave) Lectr.
Goswami, D., MSc Luck	Lectr.
Rao, M N, MSc And	Lectr.
Balakrishnan, K V., MSc	Lectr.
Rahman, S, MSc	Lectr.
Acharyya, M, MSc	Lectr.

Physics

Mahanta, P, MSc Calc, PhD Lond	Prof
Chaudhury, B, MSc Calc, PhD Lond.	Lectr.
George, S., MSc Saug	(on leave) Lectr.
Muthy, P N., MSc	Lectr.
Sarma, T, MSc	Lectr.
Kakati, K. K, MSc	Lectr.
Das, I M, MSc	Lectr.

Hindi

Chaudhury, R D, MA	Lectr
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Political Science

Rao, V. V, MA PhD Madr.	Reader
Budhray, V, MA PhD	Lectr.

History

Misra, V. B., MA Ban	Reader
Barua, D. P, MA	Lectr.
Murthy, H. V. S., MA Mys	Lectr.
Phukan, J. N., MA	Lectr.
Rao, K R, MA	Lectr.
Gupta, A, MA	Lectr.

Sanskrit

Sarma, M. M., MA Calc.	Lectr.
Venkatacharyya, T., MA	Lectr.
Hazarika, B, MA	Lectr.

Statistics

Law		Medhi, J P, MSc Calc & Manc., PhD Paris	Reader
Medhi, J C., MA BL Calc, PhD Lond	Principal, Univ Law Coll	Nag, S C, MSc	Lectr.
Saikia, S, MCom LLB	Lectr.	Palit, A K, MSc	Lectr.
Das, R R, BL Calc	(on leave) Lectr.	Sinha, S M, MSc Patna	(on leave) Lectr.
Sarma, D K., BL Calc	(on leave) Lectr.	Chakravarty, R P, MSc	Lectr.
Pathak, D	Lectr.	Nandi, S. B, MSc	Lectr.
Pathak, M, BL	Lectr.	Rao, G, MSc	Lectr.

ADMINISTRATIVE AND OTHER STAFF

Asst Registrars R K Barua, MSc;	M Barthakur, MA; Hall No 4	J Choudhury, MSc PhD; Halls No 5 and 6	N Das, MSc PhD, Halls No 7 and 8	S Saikia, MA; Halls No 9 and 10	J Medhi, MSc PhD, Girls' Hall No 1	Mrs B P Das, BA BT, Girls' Hall No. 2.	Mrs N Dutta, MA.
(Addnl) N Sarma, MA Asst Sec, Univ Classes	A K Sarma, MCom						
University Librarian . J Sarma, MA Calc							
Wardens Hall No. 1 . M C Goswami, MA	BT, Hall No 2 . S Dowera, MA, Hall No 3						

CONSTITUENT COLLEGE

GAUHATI, University Law College, P O Gauhati Univ, Jalukbari, Assam. LLB Principal—J C	Medhi, MA BL Calc, PhD Lond	4 Lectrs
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AFFILIATED COLLEGES

IA, BA, etc., after the name of a coll. means that courses are provided there for Intermediate Arts, BA, etc.]

ABHAYAPURA, *Abhayapura College*, Assam IA Principal—K Goswami, MA. 6 Lectrs

BARPETA, *M.C. College*, Assam IA, BA Principal—J. D. Jhaveri, MSc PhD 7 Profs, 8 Lectrs.

DHUBRI, *B.N. College*, Assam. IA, ISc, BA Principal—J. Das, MA. 8 Profs., 8 Lectrs

DIBRUGARH, *Assam Medical College* (Govt.), Assam (tel. Dibrugarh 80) MB BS. Principal—S. N. Sarma, MB Calc, FRCSEd 13 Profs, 15 Lectrs

DIBRUGARH, *Dibrugarh H.S.K. College*, P.O. Rehabari, Assam (tel. Dibrugarh 105) IA, ISc, ICom, BA, BCom Principal—J. R. Basu, MA Calc. 24 Profs, 22 Lectrs

GAUHATI, *Assam Engineering College*, P.O. Gauhati Univ., Jaluklari, Assam (tel. Gauhati 650) BE. Principal—N. Das Gupta, BE Calc, MS 10 Profs., 7 Lectrs

GAUHATI, *Assam Veterinary College*, P.O. Gauhati, Assam (tel. Gauhati 466). 1st & Final BVSc&AH Principal—J. M. Bujarbaina, BVSc.

GAUHATI, *B. Barooah College*, Assam (tel. Gauhati 393) IA, BA Principal—H. Barua, MA Calc 14 Profs, 6 Lectrs

GAUHATI, *Cotton College* (Govt.), Assam (tel. Gauhati 38). IA, ISc, BA, BSc. Principal—H. C. Goswami, MSc Calc 18 Profs, 50 Lectrs

GAUHATI, *Handique Girls' College*, Assam (tel. Gauhati 393) IA, BA Principal—R. B. Das, MA Calc 2 Profs, 13 Lectrs

GAUHATI, *Praggyotush College*, P.O. Gauhati, Assam (tel. Gauhati 831) IA, ISc, BA. Principal—T. N. Sarma, MA Calc. 34 Lectrs

GOALPARA, *Goalpara College*, P.O. Goalpara IA, BA Principal—M. Bora, MA Calc. 5 Lectrs

GOLAGHAT, *Debraj Roy College*, Assam IA, BA Principal—K. C. Das, MA BT 12 Lectrs

HAILAKANDI, *S.S. College*, P.O. Hailakandi. IA. Principal—D. Bhattacharjee, MA Calc. 6 Lectrs

IMPHAL (MANIPUR), *D.M. College* (Govt.) IA, ISc, ICom, BA, BSc, BCom Principal—S. N. Kaul, MA Calc 1 Prof., 22 Lectrs

JORHAT, *Assam Agricultural College* (Govt.), Assam. ISc(Agr), BSc(Agr) Principal—M. C. Das, MSc Calc, PhD Edm., FLS. 8 Profs, 19 Lectrs

JORHAT, *D.C. Barua Girls' College*, Assam IA, BA Principal—A. P. Bhattacharyya, MA Calc 14 Lectrs

JORHAT, *J.B. College*, Assam IA, ISc, ICom, BA, BSc, BCom. Principal—G. G. Datta, MA BL Calc. 1 Prof, 35 Lectrs

JORHAT, *Postgraduate Training College* (Govt.) BT Principal—I. Miri, BED 10 Lectrs.

KARIMGANJ, *Karimganj College*, Assam IA, ISc, ICom, BA, BSc, BCom Principal—P. C. Bhattacharyya, MA Calc 22 Profs, 2 Lectrs

MONGALDAI, *Mongaldai College* IA Principal—P. Sharma, MA BL 8 Lectrs

NALBARI, *Nalbari College*, Assam IA, ISc, BA Principal—T. N. Goswami, MA BL Calc. 6 Profs, 6 Lectrs

NORTH LAKHIMPUR, *North Lakhimpur College*. IA. Principal—J. N. Borgohain, MA 8 Lectrs

NOWGONG, *Nowgong College*, Assam IA, ISc, ICom, BA, BCom Principal—J. Sarma, MA Calc 25 Profs.

PATSALEA, *Bayals College*, Assam IA Principal—K. Das, MSc BL Calc 6 Lectrs

SHILLONG, *Lady Keane Girls' College*, Assam. IA, ISc, BA Principal—U. Bhattacharyya, MA BT Calc 19 Profs

SHILLONG, *St. Anthony's College*, Assam (tel. Shillong 95A). IA, ISc, ICom, BA, BSc, BCom. Principal—Rev. N. J. Kenny, BA 30 Lectrs.

SHILLONG, *St. Edmund's College*, Assam (tel. Shillong 307). IA, ISc, BA, BT. Principal—Rev. Br. J. N. Foley. 17 Profs, 4 Lectrs

SHILLONG, *St. Mary's College*, Assam IA, BA, BT. Principal—Rev. Mother M. D. E. Sales. 8 Profs, 6 Lectrs

SHILLONG (BARPANI), *Union Christian College*, Assam IA Principal—H. J. Taylor, MSc PhD 7 Lectrs

SIBSAGAR, *Sibsagar College*, Assam IA, ISc, BA. Principal—P. D. Chaliha, MA BL. 16 Lectrs

SILCHAR, *Gauachan College*, Assam (tel. Silchar 2) IA, ISc, ICom, BA, BSc, BCom. Principal—D. N. Roy, MA PhD. 29 Profs.

TEZPUR, *Darrang College*, Assam IA, ISc, BA Principal—B. Das, MSc Calc 19 Profs.

TINSUKIA, *Tinsukia College* IA, ICom. Principal—U. P. De, MA. 11 Lectrs

GENERAL INFORMATION

The Univ. came into existence on Jan. 1, 1948, and its constitution is governed by the Gauhati

Univ. Act, 1947 (Assam Act XVI of 1947). It is an affiliating, teaching and residential univ.

with jurisdiction over all the schs. and colls. in the state of Assam which were formerly affiliated to the Univ of Calcutta Under the Gauhati Univ Amendment Act, 1960, the govt of Assam contributes annually not less than 10 lakhs of rupees to meet the recurring charges of the univ

INCOME (1959-60) Rs. 4,892,368 (govt grant, 55.9 per cent., fees, 33.6 per cent., endowments, 0.5 per cent., misc, 10.6 per cent.).

FACULTIES AND DEANS. *Agric*, Principal M C Das, *arts*, Prof B K Barua (Assamese); *comm*, Prof D C. Sabharwal; *law*, Principal J C Medhi; *med*, Principal S N Sarma, *sci*, Prof H. K. Baruah (bot.)

UNIVERSITY CAMPUS All teaching depts. are now in the newly constructed bldgs on the univ campus at Jalukbari, 7 mls west of Gauhati

LIBRARIES Univ library, 40,383 vols

MUSEUMS Anthropol., bot., comm, geol, educn.

ADMISSION Candidates must have passed the matric. exam of an Indian univ or an exam recognized as equivalent.

The univ proposes to introduce the 3-yr degree course from the academic session 1962-63

FIRST DEGREES. 2 yrs after inter—BA, BSc, BCom, BSc(Agric), 3 yrs—LLB, 4 yrs after ISC—BE; 5 yrs.—BVSc&AH; 5½ yrs. after ISC—MB BS

HIGHER DEGREES. 2 yrs after corresponding bachelor's degree—MA, MSc, MCom, MSc

(Agric) 1 yr after bachelor's degree—BT 2 yrs after master's degree—DPhil

DIPLOMAS AND CERTIFICATE DipK in secretarial practice (2 yrs); teachers' ug/ceet course in geog (3 mos.), dipl. in teachers' trg in method of Engl teaching (1 yr.)

FEES. Postgrad. tuition fees, Rs. 12 p.m., BT, Rs. 15 p.m., and law, Rs. 9 p.m. Undergrad, Rs. 8 p.m.; inter classes, Rs. 7 p.m.; dipl courses, Rs. 6 p.m., geog. trg., Rs. 10 p.m.

ACADEMIC YEAR July-June

THE USUAL LANGUAGE OF INSTRUCTION is English

STUDENTS' ADVISORY BOARD The bd assists students who wish to pursue higher studies in India and abroad, it also maintains a register of former students and supplies information about careers and appts

STUDENT RESIDENCES (For wardens, see 'Admin and Other Staff', above) Hall No 1, Hall No 2, Hall No 3, Hall No 4 and Hall No 5 all situated at Jalukbari, P O Gauhati Univ Seat rent, Rs. 51 p.a. in any hall.

STAFF RESIDENCES 56 residences at Jalukbari, 7 mls west of Gauhati

STUDENTS' UNIONS Postgrad students' union and undergrad students' union, in addn to unions at the affiliated colls. BT trainees have an assocn of their own.

PUBLICATIONS Univ. Calendar, every 3 yrs (Rs. 10); Journal, annual, various text-books, university students' Journal, annual (Rs. 3).

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	18,640	4271
Women	3,393	76
Total	22,033	4347

Distribution by Faculties *Agric*, 273, *arts*, 15,878, *comm*, 2103; *engin*, 459; *law*, 530; *med*, 591, *sci.*, 5877, *vet.*, 288, *others*, 278.

Included in the figures above are:—
Intermediate students, 16,202.

Postgraduate students, 932

New admissions, 9742

Students from other countries, 51. (Countries from which largest numbers came Pakistan, 21, Italy, 13).

DEGREES AWARDED (1959-60) BA, 1310, BCom, 184, BSc, 244, LLB, 40, BSc(Agric), 34; BVSc&AH, 12, BT, 93, MA, 167, MB BS, 95; MCom, 13, MSc, 53.

DIPLOMAS AWARDED (1959-60) Secretarial practice, 13

CERTIFICATES AWARDED (1959-60). Teachers' trg in Engl, 14

GORAKHPUR UNIVERSITY*

Founded 1956

Postal Address : Gorakhpur, Uttar Pradesh, India

Cables and Telegrams : University, Gorakhpur

Telephones : 201, 60

CHANCELLOR—R K RAO, Governor of Uttar Pradesh

VICE-CHANCELLOR—A C. CHATTERJI, DSc DiIng Berl.

TREASURER—S N. M. TRIPATHI, MA LLB

REGISTRAR—K J. MAJUMDAR, MA BT

HON. LIBRARIAN—Professor V. P. UPADHYA, MA BL DLitt

UNIVERSITY TEACHING STAFF

[† = Part-Time]

Ancient History and Culture

Pandey, G C, MA DPhil	Prof, Hd of Dept.
Singh, R B, MA PhD	Asst. Prof
Chaturvedi, S N, MA	Asst. Prof
Singh, S J, MA	Asst. Prof
Ghosh, Miss Kalyani, MA	Asst. Prof
Goel, S R, MA	Asst. Prof
Mukerji, Miss Sandhya, MA PhD	Asst. Prof
Rai, J. M., MA	Asst. Prof
Tripathi, D N, MA	Asst. Prof
Misra, S. N., MA	Asst. Prof.
Shukla, D C., MA	† Lectr.
Rao, V. B., MA	† Lectr.

Bahel, S. C., MSc	† Lectr.
Puri, D M, MSc	† Lectr.
Srivastava, G. B., MSc	† Lectr.
Gupta, V S, MSc	† Lectr.
Mehrotra, R K., MSc	† Lectr.
Rai, A. K., MSc	† Lectr.

Chinese Language

Hu, C. T, MA,	Asst. Prof.
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Commerce

Misra, A. B., MA DLitt	Asst Prof, Hd. of Dept.
------------------------	-------------------------

Botany

Bhargava, K. S., PhD Lond, MSc DPhil	Prof, Hd of Dept.
Chatterji, U N., DPhil DSc	Asst. Prof
Sahai, R., MSc	Asst. Prof
Rai, S. K., MSc PhD	Asst. Prof.
Kumar, H D, MSc	Asst. Prof.
Ganguli, Mrs Savita, MSc	Asst. Prof
Gupta, P K, MSc	Asst. Prof
Dixit, S N, MSc	Asst. Prof
Joshii, R D, MSc	Asst. Prof
Tewari, M N, MSc	† Lectr

Singh, P. N., MCom	Asst. Prof.
Bajal, A P, MCom	Asst. Prof
Dwivedi, P K, MCom	Asst. Prof
Singh, M., MCom	Asst. Prof
Tripathi, R. N. M., MCom	Asst. Prof
Singh, B, MCom	Asst. Prof
Pande, U. S., MCom	Asst. Prof.
Bisen, B B S., MCom	Asst. Prof.
Piasad, S D, MCom	Asst. Prof.
Singh, H H., MCom	Asst. Prof.
Singh, F. B, MCom	Asst. Prof.
Dube, K D., BCom MA LLB	Asst. Prof
Pandey, R. K., MCom	Asst. Prof
Bajpai, O. P., MCom	Asst. Prof.

Chemistry

Mehrotra, R C, MSc DPhil Alld,	Prof, Hd of Dept.
PhD Lond, FRIC	
Tripathi, S. C, MSc DPhil	Asst. Prof
Rai, R. S, MSc DPhil	Asst. Prof.
Joshii, K C, MSc PhD	Asst. Prof.
Tiwari, P H., MSc PhD	Asst. Prof
Rao, R P, MSc PhD	Asst. Prof
Giri, S, MSc	Asst. Prof
Tandan, J. P, MSc PhD	Asst. Prof
Agrawal, R. P., MSc	† Lectr

Economics

Bahadur, R P, MA DPhil	Prof., Hd. of Dept
Shahu, H P, MA BT PhD	Asst. Prof
Joseph, I, MA	Asst. Prof
Dube, V, MA	(on leave) Asst. Prof.
Mukerji, B K, MA	Asst. Prof
Singh, B K, MA	Asst. Prof
Shandamma, K, MA	(on leave) Asst. Prof
Misra, S. S., MA	Asst. Prof

* Member of the Association of Universities of the British Commonwealth

Varma, Mrs. S., MA LLB
 Pande, J. N., MA
 Shukla, J., MA

Education

Varma, M., BEd *Edin.*, MA MEd PhD
 Hd. of Dept.

Gupta, R. K., MA *Lond*, MEd
 (on leave) Asst Prof

Nagar, P. S., MA MEd Asst Prof
 Joshi, R. K., MSc MEd Asst Prof
 Singh, S. D., MA MEd Asst Prof
 Sinha, H. C., MSc MA LT MEd Asst Prof
 Singh, B. B., MA MEd Asst Prof
 Barnwal, R. P., MA MEd Asst Prof
 Pandey, G. S., MA MEd Asst Prof
 Mehta, Mrs. Vimla, MA MEd Asst Prof
 Grover, Mrs. Indra, MA MEd PhD Asst Prof
 Bose, Swainlata, MA MEd Asst Prof
 Dube, R. K., MA MEd Asst Prof
 Garg, Shobha, MA MEd Asst Prof
 Rasool, G., BA LT MEd Instr.

English

Misra, S. P., MA *Minn.*
 Asst. Prof., Hd. of Dept

Varma, R. N., MA PhD Asst Prof
 Srivastava, G. P., MA Asst Prof
 Varma, R. S., MA DPhil Asst Prof
 Singh, M., MA Asst Prof
 Singh, B. M., MA Asst Prof
 Singh, P., MA Asst Prof
 Srivastava, N. S., MA Asst Prof
 Misra, Uma, MA Asst Prof
 Biswas, J. C., MA Asst Prof
 Upadhyaya, U. P., MA BEd Asst Prof
 Tripathi, R. S., MA Asst Prof
 Dube, G., MA Asst Prof

Fine Arts and Music

Kumar, J., BA DipFineArts
 Asst Prof, Hd of Dept.
 Shukla, S., MA MMus BV *Luck* Asst Prof.
 Dhulia, D. P., DipFineArts Asst Prof
 Singh, M., MMus Asst Prof
 Tripathi, R. N. M. Instr.
 Vyas, Mrs. R., BA BT Instr.
 Mathur, K. N., MA Instr.
 Chaturvedi, Mrs. Asha Instr.

Geography

Singh, M., MA Asst. Prof., Hd of Dept
 Tewari, C. B., MA Asst. Prof.
 Pannu, Surinder, MA Asst Prof
 Shahi, M. P., MA †Lectr
 Singh, Mrs. Prem Lata, MA †Lectr
 Rai, S. D., MA †Lectr
 Dixit, R. C., MA †Lectr
 Shahi, U. P., MA †Lectr

Hindi

Tiwari, G. N., MA PhD
 Asst Prof, Hd of Dept.

Misra, B. G., MA (on leave) Asst Prof
 Dixit, A. P., MA PhD Asst Prof
 Sanadhya, D., MA PhD Shastri Asst Prof
 Sharma, S. P., MA BT PhD Asst Prof
 Dwivedi, V. D., MA Asst Prof
 Tiwari, R. C., MA PhD Asst Prof
 Tripathi, S. N., MA Asst Prof
 Singh, Mrs. Shanta, MA Asst Prof
 Singh, B. P., MA PhD DLitt Asst Prof
 Ojha, R. D., MA †Lectr

History, Mediæval and Modern

Singh, H. L., MA PhD *Lond.*
 Prof, Hd of Dept.

Srivastava, H. S., MA LT PhD Asst Prof
 Chand, T. P., MA LLB Asst Prof.
 Bhatnagar, G. D., MA PhD Asst Prof
 Varma, H. C., MA †Lectr
 Dwivedi, S. C., MA †Lectr
 Srivastava, V. S., MA †Lectr
 Banerjee, Mrs. Leena, MA †Lectr
 Seth, Vimla, MA †Lectr

Law

Hingorani, R. C., LL.M.
 Asst Prof, Hd of Dept

Sharma, R. P., BA LL.M *Lond*
 (on leave) Asst Prof
 Tiwari, S. P., BSc LL.M (on leave) Asst Prof
 Ahluwalia, S., LL.M *Yale & Gorah*,
 BSc †Lectr
 Singh, R., LL.M †Lectr
 Senwal, J. P., LL.M †Lectr
 Prasad, A., BSc LLB †Lectr
 Bajpai, R. K., MA LLB †Lectr

Mathematics

Misra, R. S., PhD DSc, FNI
 Prof, Hd of Dept

Lal, K. B., MA PhD Asst Prof
 Singh, U. P., MA Asst Prof
 Kumari, Sulaksana, MSc DPhil Asst Prof
 Verma, B. G., MA Asst Prof
 Srivastava, R. P., MSc Asst Prof
 Bihari, V., MSc Asst Prof
 Tripathi, R. S., MSc †Lectr.
 Warat, N. A., MSc †Lectr
 Singh, P. N., MSc †Lectr
 Srivastava, T. N., MSc †Lectr

Military Science

Kulshrestha, Lt. R. C., MA
 Asst. Prof., Hd. of Dept.
 Nagar, K. S., MA Asst. Prof.
 Kaushik, R. N. †Lectr.

Philosophy and Psychology

Sinha, M. M., MA MS PhD *Oregon* Asst Prof.
 Bharadwaj, S. B. L., MA LT PhD Asst Prof
 Tripathi, L. B., MA DiplmPsychol (on leave) Asst Prof
 Singh, L. A., MA Asst. Prof

Srivastava, Shakuntala, MA	Asst Prof	Misra, V. N., MA Shastri	Asst Prof.
Pal, A. K., MA	Asst Prof	Gupta, S. K., MA PhD (on leave)	Asst Prof
Rastogi, G. D., MA PhD	Asst Prof	Singh, L. N., MA Acharya	Asst Prof
Prasad, M., MA PhD	Asst Prof.	Joshi, H. C., MA Acharya	Asst Prof
Saxena, Mis S. L., MA DPhil	Asst Prof	Pande, R. M., MA	Asst Prof.
Singh, B. B., MA	Asst Prof	Tripathi, R. K. M., Acharya	Asst Prof
Tiwari, S. M., MA	Asst Prof	Tripathi, V. N., MA Shastri	Asst Prof
Srivastava, J. S., MA	Asst Prof	Avasthi, S. S., MA Shastri	Asst Prof
Singh, R. S., MA	† Lectr	Shukla, K., MA	† Lectr

Physics

Sharma, D., MSc DPhil	Prof, Hd of Dept
Mehrotra, B. N., MSc	(on leave) Asst Prof
Tripathi, S. V. M., MSc	(on leave) Asst Prof
Srivastava, G. P., MSc DPhil	(on leave) Asst Prof
Sanyal, N. K., MSc	Asst Prof
Saxena, V. N., MSc	Asst Prof
Srivastava, B. B., MSc	Asst Prof
Khanna, S. M., MSc	Asst Prof
Tripathi, K. K., MSc	Asst Prof
Maheshwari, R. C., MSc	Asst Prof

Political Science

Srivastava, H. S., MA LT PhD	Asst Prof, Hd. of Dept.
Krishnanand, MA LLB DPA PhD	Asst Prof
Tiwari, J. N., MA LLB	(on leave) Asst Prof
Sinha, K. N., MA LLB	Asst Prof
Nangpal, P., MA LLB	(on leave) Asst Prof
Tripathi, R. K. M., MA	Asst Prof
Dikshit, B. V., MA PhD	Asst Prof
Srivastava, N. N., MA LLB	Asst Prof
Srivastava, Mis S., MA	† Lectr
Misra, K. N., MA	† Lectr
Lal, H. S., MA	† Lectr

Sanskrit

Upadhyay, V. P., MA BL DLitt	Prof, Hd of Dept.
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Sociology

Gaur, R. P. S., MA	Asst Prof, Hd of Dept
Saxena, D. P., MA	Asst Prof
Bhusan, G., MA	† Lectr.
Dubey, S. M., MA	† Lectr

Tibetan Language

Bhukhu, M. H.	Asst. Prof.
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Urdu

Ilahi, M., MA PhD	Asst. Prof., Hd. of Dept.
Salam, A., MA PhD	† Lectr

Zoology

Chaudhury, H. S., MSc DPhil	Prof, Hd of Dept
Shukla, G. S., MSc PhD	Asst. Prof
Kheera, S., MSc PhD	Asst. Prof.
Saxena, S. C., MSc PhD Lond	Asst Prof
Sinha, T. B. J., MSc DPhil	Asst Prof
Srivastava, G. J., MSc	Asst Prof
Srivastava, B. M., MSc	† Lectr
Das, A. B., MSc	† Lectr
Swaroop, K., MSc	† Lectr.
Kapoor, P., MSc	† Lectr.
Tripathi, S. R.	† Lectr
Lyall, Renuka D., MSc	† Lectr

ADMINISTRATIVE AND OTHER STAFF

Proctor H P Shahi, MA BT PhD. Accounts	Misra, MSc PhD, FNI Med. Officers J. P
Officer R N Dhawan, BA Warden R S	Srivastava, MB BS, N. R. Banerji, MB BS.

AFFILIATED COLLEGES

[BA, BSc, etc., after the name of a coll means that courses are provided there for BA, BSc, etc.]

AZAMGARH, <i>D A V College</i> (1957) BA, BEd Actg Principal—S. K. Srivastava, MA. 14 Teachers	BAHRAICH, <i>K D College</i> (1960). BA Principal —J. B. Singh, MA PhD 8 Teachers.
AZAMGARH, <i>S D J D College</i> , Chandesar (1958) BSc(Ag) Principal—S. K. Misra, MSc(Ag) PhD 10 Teachers	BALLIA, <i>S C College</i> (1916) BA, BSc, LLB, BEd. Actg Principal—S. Chaube, MA 49 Teachers.
AZAMGARH, <i>S N College</i> (1942) BA, BSc, BCom, LLB Principal—S. Sultan, MA LLB 48 Teachers	BALLIA, <i>K B Degree College</i> , Dubhar (1959) BA Principal—P. N. Misra, MA. 5 Teachers
	BALLIA, <i>T D College</i> (1955) BA, BCom, BSc

(Ag), BEd Principal—S R Chaturvedi, MA BT.

BASTI, *K.D. College* (1959) BA Principal—R K Misra, MA LT. 6 Teachers

DEORIA, *Buddha College*, Kushinagar (1953) BA, BEd, BCom Principal—R S N Tripathi, MA LT. 17 Teachers

DEORIA, *D.M. College* (1954) BA, BSc, BSc (Ag) Principal—H R Nanda, MSc(Ag) 15 Teachers

FAIZABAD, *H.T. Degree College*, Tanda (1960). BA Principal—D P Misra, MA 3 Teachers.

FAIZABAD, *K.S.S. College* (1951) BA, LLB. Principal—C B Gupta, MA DLitt 14 Teachers

GHAZIPUR, *Degree College* (1957) BA Actg Principal—M Singh, MA PhD. 10 Teachers

GHAZIPUR, *Hindu Degree College*, Zamania (1957) BA Principal—B D Tripathi, MA 7 Teachers

GONDA, *M.L.K. College*, Balrampur (1955) BA, BSc(A), BEd. Principal—R K Vaish, MSc 3 Teachers

GORAKHPUR, *N.D. College*, Barhalganj (1960) BA, BSc(Ag) Principal—R. C. Srivastava, MA 11 Teachers

GORAKHPUR, *St. Andrew's College* (1899) BA, BSc, LLB Principal—M O Varkey, MSc 47 Teachers

JAUNPUR, *G.S. Degree College*, Samodhpur (1961) BA Principal—

JAUNPUR, *R.S.K.D.D. College* (1959) BA, BEd Principal—A Chandra, MA 7 Teachers

JAUNPUR, *T.D. College* (1948). BA, BSc, BCom, LLB, BSc(Ag) Principal—H N Singh, MA BT. 56 Teachers

MIRZAPUR, *K.B. College* (1957) BA Principal—S S Jain, MA

PRATAPGARH, *T.D. College* (1960) BA Principal—A C Kashyap, MA Med. 8 Teachers

SULTANPUR, *R.R. Degree College*, Amethi (1959). BA Principal—J C Dixit, MA LLB 7 Teachers

VARANASI, *H.C. College* (1951) BA, BCom, LLB, BEd Principal—R. G Chandra, MA LLB 31 Teachers

VARANASI, *U.P. College* (1949). BA, BCom, BSc Principal—S B. Singh, MSc PhD Camb 26 Teachers

GENERAL INFORMATION

The univ. was estab. by the Gorakhpur Univ Act of 1956 and started functioning in July 1957. It is a teaching and affiliating univ with jurisdiction extending throughout the eastern districts of Uttar Pradesh. Postgrad teaching is concentrated in the univ teaching depts.

CONSTITUTION The first statutes of the univ have been finalized and the necessary steps are being taken to constitute the authorities of the univ.

INCOME. Estimate for 1960-61. Rs. 22,500,000 (principal source govt grants)

UNIVERSITY PRECINCT The univ has a site of about 200 acres. The sci block has been completed. Bldgs under constrcn or planned include the senate hall, various depts, hostels and staff quarters.

LIBRARY Over 48,556 vols

LABORATORIES. Bot., chem., phys., psychol, zool

BOTANICAL GARDEN.

MUSEUM. Anc, hist

ADMISSION The minimum qualif for admission to a first-degree course is a pass in the inter exam of the bd. of high sch and inter educn., Uttar Pradesh, or of an Indian univ. incorporated by law, or any other exam recog. by the univ. as equivalent

FIRST DEGREES 2 yrs from inter arts, inter sci, inter. sci (agnc), inter comm., or equivalent —BA, BSc, BSc(Ag), BCom

HIGHER DEGREES 1 yr —BEd, 2 yrs —LLB, MA, 2 yrs. after corresponding bachelor's degree —MSc, MCom, MEd. Courses of instrcn are provided for MA, MSc, MCom 2 yrs' res. and thesis after postgrad degree—PhD. The univ. also awards a DLitt

DIPLOMAS Chinese, French, German, Indian music, photography, each 2 yrs, soc work, 2 yrs postgrad

EXTERNAL STUDENTS. Teachers, inspecting officers of the dept. of educn, librarians and women candidates may be admitted as external students to exams for the degrees of BA, MA (except in exper psychol), MSc (in maths only), BCom, MCom. Exams are the same as for the corresp internal degree

RESEARCH Facilities available in all univ. depts

FEES. Tuition fees BA, BSc, BCom, Rs 12, BEd, LLB, MA, MSc, MCom, MEd, Rs 15

ACADEMIC YEAR July to April. Term dates (approx.). July 16 to Dec. 24, Jan 2 to April 30.

USUAL LANGUAGES OF INSTRUCTION. Hindi in undergrad classes; English at postgrad. level.

STUDENT RESIDENCE Every student not living with a parent or guardian must reside in a hostel maintained by the univ. or a coll. or in a hostel or

lodge recognized by the univ. or a coll. There is a 3-storied univ. hostel, and most of the affiliated colls provide accomm. for a fair proportion of their students.

STAFF RESIDENCES. 19 quarters, controlled by univ., for staff members.

NATIONAL CADET CORPS 7 indep. coys operate at the various affiliated colls⁴. It is intended also to raise a contingent in the univ. itself.

STUDENT HEALTH. Every student is required,

by the end of the 2nd term following his admission, to present himself for med. exam. by the univ. med. officer at the univ. dispensary. There are separate arrangements for med. exam. of girl students. Med. facilities are also provided in the affiliated colls.

STUDENTS' UNION. A students' union has been formed.

PUBLICATIONS. *Prospectus* (annual), Rs. 2.25 n.p.

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	9,992	—
Women	522	—
Total	10,514	—

Distribution by Faculties *Agric*, 937, *arts*, 6478, *comm*, 819; *law*, 664, *sci*, 1616. Total 10,514.

Included in the figures above are:—

Postgraduate students, 980

DEGREES AWARDED (1959-60). *Agric*: BSc (Ag), 132. *Arts*: BA, 866; MA, 233. *Comm.*: BCom, 159, MCom, 52. *Educn*: BEd, 484, MEd, 7. *Law*: LLB, 98. *Sci*: BSc, 209, MSc, 56. PhD (all facs) 4. *Total number of first degrees awarded*, 1366.

DIPLOMAS AWARDED (1959-60). Chinese, 9, Tibetan, 4; stats., 4; DSW, 3.

GUJARAT UNIVERSITY

Founded 1949

Postal Address Navrangpura, Ahmedabad 9, Gujarat State, India

Cables and Telegrams. Unigujarat

Telephones 7198, 7488

CHANCELLOR—H.E. THE GOVERNOR OF GUJARAT (*ex officio*)

VICE-CHANCELLOR—L. R. DESAI, BA BT Bom, TD Lond

REGISTRAR—K. C. PARIKH, MA LLB

LIBRARIAN—K. R. DESAI

UNIVERSITY TEACHING STAFF

Gujarati Language and Literature

Joshi, U., MA Bom Prof., Dir.
Pandit, P. B., MA Bom., PhD Lond
(Linguistics) Reader

Psychology

Prabhu, P. H., BA LLB PhD Prof., Dir.
Bhopatkar, C. T. Reader
Singh, V. K., MA Patna & Mmm Lectr.
Das, G. D., MA Lectr.
Apte, S. M., MA Poona Demr.

Science

Chinoy, J. J., MSc Bom, DIC, PhD Lond (Bot) Prof., Dir.
Vaidya, P. C., MSc PhD Bom. (Maths) Prof.
Raval, H. N., MA Bom (Maths) Reader
Thakker, K. A., MSc Bom. (Chem.) Reader
Pathak, P. D., MSc Bom (Phys.) Reader
Kotadia, K. M., PhD Reader
Shah, J. J., MSc Bom, PhD Bda. (Bot) Reader
Basen, D., MA (Maths.) Lectr.
Desai, M. M., MSc PhD (Chem.) Lectr.
Patel, S. R., MSc PhD Bom (Chem) Lectr.
Shah, R. K., MSc PhD (Chem) Lectr.
Trivedi, V. M., MSc Bom. (Phys.) Lectr.
Pandya, N. M., MSc (Phys.) Lectr.

Desai, Miss Sharda R., MSc Dub, PhD Lond

Shah, C. K., PhD Delhi, MSc (Bot) Lectr.
Vashi, I. G., MSc (Chem) Demr.
Mody, B. A., MSc (Chem) Demr.
Jani, K. G., MSc (Phys.) Demr.
Vora, J. C., MSc (Phys.) Demr.
Acharya, Miss Usha H., MSc (Bot.) Demr

Social Sciences

Shenoy, B. R., MA Ban., MSc(Econ) Lond. (Econ) Prof., Dir.
Patel, Miss Taraben N., MA Col., PhD Lond., BA (Sociol.) Reader
Pathak, D. N., MA Chic & Gugar. (Pol) Reader
Pathak, H. N., MA MSc(Econ) Lond (Econ) Reader
Dholakia, J. L. (Pol) Lectr.
Desai, K. D., MA LLB Bom (Econ.) Reader
Parekh, M. G., MA LLB (Pol) Lectr.
Parikh, R. D., MA (Sociol.) Lectr.
Shah, S. M. (Stats) Lectr.
Patel, R. C., MSc Bda (Stats) Lectr.
Jaiswal, M. C., MSc Bda. (Stats) Lectr.
Kale, J. D., MSc Patna (Stats) Demr.
Rangnathan, N. V., MSc Karn. (Stats) Demr

ADMINISTRATIVE AND OTHER STAFF

Dep Registrar J. M. Mehta, BSc BT Bom.
Asst. Registrar: S. P. Medh, BA LLB. Chief

Med Officer. K. A. Shah, MB BS Bom Dir. of
Phys Educn. V. P. Mehta, BSc DipPED

CONSTITUENT INSTITUTIONS

(Postgraduate depts of the univ. for teaching staff, see above)

UNIVERSITY SCHOOL OF GUJARATI LANGUAGE
AND LITERATURE, founded 1954. Prepares post-

graduate students for MA and PhD. Dir—U.
Joshi, MA Bom.

UNIVERSITY SCHOOL OF PHILOSOPHY AND PSYCHOLOGY, founded 1957. Prepares postgraduate students for MA and PhD. Dir and Prof of PSYCHOLOGY—P. H. Prabhu, BA LLB PhD.

UNIVERSITY SCHOOL OF SCIENCES, founded

1960. Prepares postgraduate students for MSc and PhD.

UNIVERSITY SCHOOL OF SOCIAL SCIENCES, founded 1954. Prepares postgraduate students for MA and PhD. Dir. and Prof. of ECON—B. R. Shenoy, MA Ban., MSc(Econ) Lond

AFFILIATED COLLEGES AND RECOGNIZED INSTITUTIONS

[IA, BA, etc., after the name of a coll means that courses are provided there for Intermediate Arts, BA, etc., †=Part-Time]

AHMEDABAD, *Acharatlat Girdharlal Teachers' College*, Navrangpura, Ahmedabad, 9 (tel. 3602). Founded 1952. TD, BE, Ed, PhD Principal—K. G. Desai, MA Col., BSc BT Med PhD 3 Profs, 8 Lectrs, 3 Tutors, 1 Arts Master† and 1 Phys. Instr.

AHMEDABAD, *Ahmedabad Textile Industry's Research Association*, Navrangpura, Ahmedabad, 9 (tel. 2851-2). Founded 1953. PhD Dir.—L. T. S. Subramaniam, Asst Dirs & Hds. of Divisions: PHYS.—B. K. Vaidya, MSc PhD Lit; CHEM AND CHEM PROCESSING—P. C. Mehta, BSc(Tech) MA PhD Prin.; HUMAN RELATIONS—K. C. Chawdhary, MA PhD Mich

AHMEDABAD, *Balabhai Damodardas Arts College* (for ladies), Sankdi Sheri, Ahmedabad, 1 (tel.: 51792). Founded 1956. ISC, BA Principal & Prof of ENGL—S. R. Bhatt, MA LLB 18 other Profs and Lectrs

AHMEDABAD, *Behrampur Jyothba Medical College*, Asarva, Ahmedabad, 11 (tel. 2947). Founded 1946. MB BS, MD, MS, BSc(Med), MSc(Med). Dean & Prof of PHYSIOL—E. M. Best, MD Bom., ANAT—B. D. Mishra, MS, PATHOL—Y. M. Bhende, MD Bom. 5 Lectrs., 19 Jr Lectrs., 14 Demrs and 50 other Hon Assts

AHMEDABAD, *Bholabhai Jeebhoy Institute of Learning and Research*, Bhadra (tel. 2202). Founded 1939. Postgrad and Res (MA, PhD) Dir & Prof of SANSK.—R. C. Panik, BA Bom., DARSANA-SHASTRA—Pdt S. Sanghvi, GUJARATI AFABRANS—M. C. Modi, MA LLB; ARABIC—S. A. Z. Nadvi (Nadwa Arabic Coll.), ANC INDIAN CULTURE—H. G. Shastri, MA PhD 7 other Profs and Lectrs

AHMEDABAD, *B. M. Institute of Psychology & Child Development*, Ahmedabad, 6 (tel. 7923). Founded 1955. MA, PhD, in Psychol Actg Dir—S. K. Mitra 2 Assoc Profs & Lectrs

AHMEDABAD, *City Law College*, Laldarwaja, Ahmedabad. Founded 1958. LLB. Principal & Prof of EVIDENCE, MOHD LAW, TORT—D. D. Desai, BA LLB 4 other Lectrs

AHMEDABAD, *Gujarat College*, Ellsbidge, Ahmedabad, 6 (tel. 7057). Founded 1879. BA, MA, BSc, MSc, PhD Principal & Prof. of PHYS—Y. G. Naik, MSc PhD, GUJARATI—; HIST AND ECON—N. B. Naik, MA, MATHS.—P. V. Parekh, MSc, BIOL.—G. T.

Pandya, MSc, BOT.—H. D. Norohna, PhD Edn, MSc, SANSKRIT AND ARDHAMAGADHI—V. M. Kukarni, ENGL—C. N. Patel, URDU—H. M. Shaikh, MA, PERSIAN—M. A. H. Farooqui, MA PhD, HINDI—S. D. Mansharamani, MA 49 other Lectrs and Asst Lectrs.

AHMEDABAD, *Hargovandas Lakhmichand College of Commerce*, Navrangpura, Ahmedabad, 9 (tel. 7142). Founded 1936. BCom, MCom, PhD Principal & Prof of FOREIGN EXCHANGE AND INTERNAT BANKING, PUBLIC ECON, ECON AND COMM—S. V. Desai, MS Col., Vice-Principal & Prof of ENGL AND SCI METHOD—V. N. Joshi, MA, ACCTG, AUDITING AND ACCTS—C. R. Lakhia, BCom., ORGN. OF TRADE, MOD ECON DEVEL AND FORMS OF ECON ORGN—S. P. Vaswani, MA LLB, ORGN OF TRANS, TRANS. AND BUS ORGN—P. V. Lokras, BCom MA 4 Assoc Profs., 6 Asst Profs, 16 other Lectrs and Tutors.

AHMEDABAD, *H. K. Arts College*, Ahmedabad, 9 (tel. 4290). Founded 1955. BA Principal & Prof of GUJARATI—Y. P. Shukla, MA, ENGL—L. H. Tengshe, MA PhD; SANSK.—J. S. Jetty, MA PhD; POL.—M. G. Parekh, MA LLB; ANC. INDIAN CULTURE—Miss Priyabala J. Shah, DLitt Paris, MA PhD. 28 Profs., Lectrs and Tutors

AHMEDABAD, *Lalibhai Dalpatbhai Arts College*, Navrangpura, Ahmedabad, 9 (tel. 7152). Founded 1957. BA, MA, PhD Principal & Prof. of POL.—P. G. Mavlankar, MA; ENGL—F. C. Davar, MA LLB, SANSK.—R. B. Athavle, MA, GUJARATI—R. M. Shukla, MA, ECON—, PHILOS.—V. A. Vanikar, MA, HINDI—R. B. Upadhyaya, MA; ARDHAMAGADHI—V. M. Shah, MA. 27 other Lectrs and Tutors

AHMEDABAD, *Lalibhai Dalpatbhai College of Engineering*, Navrangpura, Ahmedabad, 9 (tel. 3486). Founded 1948. BE, ME. Principal—S. K. Katrak, BE(C) MS III.; ELECTRIC ENGIN.—B. D. Chaudhari, MSE Mich, BE, CIVIL ENGIN.—G. J. Kulkarni, BE(Civil), MERCH ENGIN.—, APPL. MECH.—K. S. Shankara, BE. 59 other Profs. and Lectrs

AHMEDABAD, *Lalibhai Motilal College of Pharmacy*, Navrangpura, Ahmedabad, 9 (tel. 7216). Founded 1947. BPharm, MPharm. Principal & Prof. of PHARMACEUTICS AND FORENSIC PHARMACY—R. P. Patel, MSc Bom., PhD Lond, PHARMACEUTICAL CHEM—C. R. Mehta, MSc PhD

Bom, PHARMACOGNOSY, BIOCHEM, GERMAN—C. S. Shah, DSc *Fran.*, BSc; PHYSIOL, PHARMACOL—H. R. Desai, BSc MB BS 9 other Lectrs

AHMEDABAD, *Mafatal Gagalbhai Science Institute*, Navrangpura, Ahmedabad, 9 (tel. 7457) Founded 1937 BSc, MSc, PhD Principal & Prof of CHEM—R. D. Desai, BA MSc Bom, DSc Lond, FRIC, FNI, MATS—K. R. Dave, MSc; PHYS.—N. J. Patel, MSc; BIOL.—M. S. Dubale, PhD; GEOL and GEOG.—S. Mukherjee, MSc 45 other Profs., Lectrs. and Tutors

AHMEDABAD, *Physical Research Laboratory*, Navrangpura, Ahmedabad, 9 (tel. 7076) Founded 1948 MSc and PhD in Phys Dir. & Prof of ATMOSPHERIC PHYS.—K. R. Ramanathan, MA DSc, FNI, COSMIC RAYS PHYS—V. A. Sarabhai, MA PhD Camb., R. P. Kane, MSc PhD, ELECTRONICS—U. D. Desai, MSc PhD, THEORET PHYS—S. P. Pandya, MSc PhD

AHMEDABAD, *Prakash Arts College*, Ahmedabad Founded 1957. IA, BA Principal & Prof of EDUCN.—R. S. Trivedi 12 other Lectrs and Tutors, and 1 Phys Trg Instr

AHMEDABAD, *St Xavier's College*, Ahmedabad, 6 (tel. 7086) Founded 1955 BA, Principal—Rev H. A. de Souza, MA Col, LPh Rome, STL Comillas, PhD Fordham, Vice-Principal & Prof of ECON.—F. Braganza, MA Col; ENGL.—J. Braganza, MA Col, BA LPh Rome. 6 Profs., 32 Lectrs and Tutors, and 1 Phys. Trg. Instr.

AHMEDABAD, *Sardar Vallabhbhai Arts and Commerce College*, Ahmedabad, 6 (tel. 7028) Founded 1960 ICom, BA Principal & Prof of ECON.—C. J. Patel, MA. 13 Lectrs.

AHMEDABAD, *Sheth Haridas Acharatlal College of Commerce*, Ellisbridge, Ahmedabad, 6 (tel. 7028). Founded 1956 BCom Principal—M. C. Desai, MA LLB 19 other Lectrs.

AHMEDABAD, *Sheth K.M. Postgraduate School of Medicine and Research*, Ellisbridge, Ahmedabad, 6 (tel. 7601) Founded 1931 MD and MS Pt. II. Dir. & Prof. of SURG.—M. D. Desai, MB MS *Madras*, MChOrth Liv, FRCS, SURG.—M. D. Patel, DLO Lond., MB BS, FRCS, MED.—K. C. Gupta, MD BS; G. R. Karat, MD BS; OBSTET and GYNÆCOL.—Miss Saudamini C. Pandya, MB BS Bom., MD. 11 other Profs and Lectrs

AHMEDABAD, *Shri Swaminarayana Arts & Science College*, Citamandir Road, Ahmedabad (tel. 51849). Founded 1956. BA Principal & Prof of GUJARATI—P. H. Bhatt, MA; ECON.—G. K. Bhatt. 20 other Lectrs.

AHMEDABAD, *Sr Lallubhai A. Shah Law College*, Ellisbridge, Ahmedabad, 6 (tel. 7028) Founded 1927 LLB, LL.M. Principal & Prof of CONTRACT, TRANSFER OF PROPERTY AND HINDU LAW—M. S. Pandit, BA LLB, ELEMENTS OF CONST.—, INDIAN PENAL CODE—V. K. Desai; CONTRACTS—I. M. Nanavati, BCom LLB, CIVIL PROCEDURE CODE—B. K. Gandhi, MOHD

LAW, ETC.—S. S. Belsare, BA LLB, EVIDENCE AND INDIAN PENAL CODE—D. C. Trivedi, MA LLB 16 other Lectrs.

ALIABADA, *Darbar Gopaldas Mahavidyalaya*, Halar, Saurashtra State. Founded 1953. BA, Principal & Prof. of GUJARATI—M. S. Patel 4 Profs., 5 other Lectrs. and Tutors.

BHAVNAGAR, *Mangaldas Jeshingbhai College of Commerce*, Saurashtra State. Founded 1949. BCom, MCom. Principal & Prof of BUS ORGNS.—S. C. Pathak, MCom; ENGL.—P. P. Mehta, MA; BANKING AND SCIENTIFIC METHODS—H. D. Narayan, MCom; ACCOUNTING AND AUDITING—J. G. Mankad, BCom 11 other Profs., Lectrs and Tutors

BHAVNAGAR, *Samaldas College* and *Sr P. P. Institute of Science*, Saurashtra State. Founded 1885 MA, BSc, MSc, PhD Principal & Prof of MATHS AND PHYS.—J. B. Sandil, MSc; MATHS—S. S. Dave, MSc; HIST AND ECON.—I. J. Dhruve, MA, ENGL.—V. J. Trivedi, MA, GUJARATI—I. R. Dave, MA, CHEM—H. M. Mapara, MSc, BIOL.—P. J. Chandukar, MSc, PHYS.—K. L. Narsinh, BA And, MSc Ban 42 other Profs., Lectrs and Demrs

BHUJ, *R.R. Lalan Intermediate College*, Kutch, Bhuj. Founded 1953 BA Principal & Prof of ENGL.—S. M. Shah, MA, ENGL.—H. D. Dave, MA, CHEM—A. G. Munshi, MSc PhD, GUJARATI—C. A. Shukla, MA 15 other Lectrs and Demrs., 1 Phys Trg Instr

BROACH, *Jayendrapuri Arts and Science College*, Broach. Founded 1955 ISC, BA Principal & Prof of MATHS—K. V. Desai, MSc 3 Profs., 18 Lectrs, 1 Tutor, 1 Phys Trg Instr

BULSAR, *Science and Arts College*, Bulsar. Founded 1957 IA, ISC, BA Principal & Prof. of CHEM—K. G. Naik, MA DSc Lond. 23 other Lectrs., Demrs and Tutors.

CAMBAY, *Shri Rajam Parekh Arts College*, Cambay. Founded 1960. IA. Principal & Prof. of GUJARATI—P. Chandravakar, MA 6 Lectrs.

DABHOI, *Arts College*, Dabhoi. Founded 1958. IA. Principal & Prof of GUJARATI—B. P. Kothari, MA. 7 other Lectrs.

DWARKA, *Shri Shardaipth Arts College*, Dwarka. Founded 1960. IA. Principal & Prof of SANSKRIT—D. P. Joshi, MA LLB 6 Lectrs.

GODHARA, *Sheth P. T. Arts and Science College*, Godhara. Founded 1960 IA, ISC Principal & Prof.—C. C. Shah, MSc 9 Lectrs

JAMNAGAR, *Ayurvedic Mahavidyalaya*, Jamnagar. Founded 1956. BAMS Principal & Prof. of SHARIR RACHANA—V. V. Vaidya, ROGANIDAN-KAYACHIKITSA—K. P. Vyas 22 other Profs., Lectrs and Demrs

JAMNAGAR, *D.K.V. Arts & Science College*, Jamnagar. Founded 1956. IA, BA, ISC, BSc Principal—T. M. Oza 2 Profs., 8 Lectrs

JAMNAGAR, *M.P. Shah Medical College*, Jamnagar. Founded 1955 1st MB BS. Principal & Prof

of PHYSIOL.—S S Baxi, PATHOL.—H H. Shah, MD, SURG.—P P Sheth, FRCS, GYNÆCOL.—S M Sen, MS MO DGO. 12 other Profs, 20 Lectrs

JUNAGADH, *Agriculture College* Founded 1960 ISc(Agr) Principal & Prof of PLANT PATHOL.—M K Desai, MSc(Agr) 10 Lectrs

JUNAGADH, *Bahauddin College*, Saurashtra State Founded 1901 MA, MSc Principal—MATHS.—A R Rao, MSc, BIOL.—G A Kapadia, MSc; PHYS.—S S Joshi, BSc PhD, CHEM.—S A Vaishnav, MSc, ECON.—P N Joshi, MA 18 other Profs and Lectrs

MANSA, *LH Science and SD Arts Intermediate College* Founded 1960. IA, ISc Principal & Prof. of BOT.—C M Patel, MSc 9 Lectrs

MODASA, *Sir P T Arts and S K. and Shri Krishnalom Arts College*. Founded 1960 IA, ISc Principal & Prof of GUJARATI.—D P Thaker, MA PhD. 9 Lectrs.

MORVI, *H H Mahendrasingh Science and M N. Mehta Arts College* Founded 1960 IA, ISc Principal & Prof. of GUJARATI.—V. G Upadhyay, MA. 9 Lectrs

MORVI, *Lukhdhary Engineering College*, Saurashtra State Founded 1951 BE (civil, electr & mech) Principal—G J Kulkarni, CIVIL ENGIN.—M D Bhujani, BE(Civil), APPL MATHS.—L. T Patel, MA 39 other Lectrs and Demrs

NADIAD, *I V College of Commerce* Founded 1960 ICom Principal & Prof of ECON.—S R. Mehta, MA 6 Lectrs

NADIAD, *Jethabhai Jhaverbhai College of Science & C B Patel Arts Institute* Founded 1947 BA, BSc, MA, MSc Principal & Prof of CHEM.—M D Avasarc, BA MSc PhD, FRIC, FNI; CHEM.—K N Chokshi, MSc BT Bom, MATHS.—Bassan Darshan Singh, MA, PHYS.—M M Patel, MSc, ZOOL.—N L Naik, MSc, BOT.—P S Toot, MSc, GUJARATI.—R M. Patel, MA BT Bom, R N. Pandya, MA; ENGL.—B J Pandya, MA; HIST AND ECON.—R N Desai, MA PhD 22 other Lectrs, Demrs and Tutors.

NAVARI, *Sorabji Bhojori Garda College and B P Bania Science Institute* Founded 1945 MA, MSc, PhD Principal & Prof of ENGL.—N N Bharucha, MA, BIOL.—B P Menon, MA MAdv, CHEM.—R D Advani, MSc; MATHS.—S R Gothivrelkar, MA MEd LLB, GUJARATI.—J S Joshi, MA, PHYS.—V N Upadhyaya, MSc, PERSIAN.—M F Quraishi, MA, MICROBIOL.—W V Kotasthane, MScTech MSc, MSc Bom, SANSK.—, HINDI—Mrs. Suddha J Phadke, MA 31 other Profs, Lectrs and Demrs

PETLAD, *Petlad College* Founded 1946 IA, BSc. Principal, S. V Shah, BSc PhD, SANSK.—B M Dhruva, MA PhD; LOGIC.—J G Joglekar, MA, MATHS.—D K Patwardhan, MSc 14 other Lectrs and Demrs, 1 Phys. Instr

PILVALI, *Umedram Panchal Arts College and Sarvedaya Science College* Founded 1960. IA, ISc Principal & Prof of CHEM.—M S. Shah, MSc PhD. 9 Lectrs.

PORBANDER, *Ramba Graduate Teachers' College*. Founded 1955 BED Principal—H. E. Hakim, MA BT MEd 8 Lectrs.

RAJKOT, *A M Parekh Law College* Founded 1955 LLB Principal & Prof of LAW—H S. Sanghavi, MA LLB 7 other Profs and Lectrs

RAJKOT, *Dharmendrasingh College & Kotah Institute of Science*, Saurashtra State Founded 1937 MA, MSc Principal & Prof of ENGL.—M N Korgaonkar, MA, ECON, INDIAN ECON PROBLEMS.—R R Mishra, MA LLB, FRENCH.—M G Desai, MA LLB, PHYS.—P Y Deshpande, MSc PhD, SANSK.—; LOGIC AND PHILOS.—U D Bhatt, MA; MATHS.—K M Shah, MSc BT Bom. 32 other Profs, Lectrs and Demrs

RAJKOT, *Shri Popatlal Dhanyibhai Malaviya College of Commerce* Founded 1957 ICom, BCom Principal & Prof of COMM AND ECON.—J H Adhvaryu, MA PhD 4 Profs, 10 Lectrs, 2 Tutors

SURAT, *Kishabhai Premchand College of Commerce*, Athva Lines Founded 1946. MCom Principal—A R Desai, MA Bom, MSc(Econ) LOND ACCOUNTS, CO-OPERATION AND RURAL DEVEL, ETC.—R N Bhatt, MCom, MATHS AND STATS.—K. M. Talati, MA, ENGL.—R L. Keswani, MA, ECON.— 13 other Lectrs, 1 Phys Trg Instr.

SURAT, *Maganlal Thakorda Balmukunddas College*, Athva Lines Founded 1918 MA, MSc, PhD Principal & Prof of ENGL.—K. J. Desai, BA Camb, MA LLB, GUJARATI.—V R Trivedi, MA; SANSKRIT AND ARDHAMAGADHI.—J. T. Parikh, MA, URDU AND ARABIC.—T H. Shamshi; GEOG.—P. N. Modak, MSc Nag, HIST. AND ECON.—P. C Joshi, MA Agra; MATHS.—S Ramkrishnan, MSc. 5 other Profs, 12 Lectrs, 3 Tutors and 2 Phys. Trg Instrs

SURAT, *O H Nazar Ayurvedic Mahavidyalaya*, Surat Founded 1958 I & II BAMS Principal & Prof of DRAVYAGUNA.—B. G Shah, Vice-Principal & Prof of NIDAN CHIKITSA.—R N Desai

SURAT, *Sarvaganih Law College*, Athva Lines Founded 1935. LLB, LLM Principal & Prof of ENGL., HINDU LAW, EQUITY, ETC.—C D Vyas, MA LL.M. 4 other pt-time Profs and Lectrs.

SURAT, *Sarvaganih College of Science*. Founded 1960. BSc. Principal & Hd of Dept of PHYS.—M S. Desai. 3 Profs, 12 Lectrs.

SURENDRANAGAR, *M P. Shah Arts & Science College*, Surendranagar Founded 1956. IA, ISc, BA Principal—M M Parekh, MSc PhD,

FRIC; HIST AND ECON—R B Shrivastava, MA.
2 Profs, 8 Lectrs

TALOD, *Sheth H P Arts and Shrimati S M S Panchal Science Intermediate College* Founded 1960 IA, ISc. Principal & Prof of GUJARATI—R G. Bhatt. 9 Lectrs

VIRVAL, *Shri Somnath College*. Founded

1960. IA, ISc Principal & Prof. of PHILOS—
I V. Trivedi, MA. 6 Lectrs.

VIENAGAR, *Meneklal Nanchang' College* Founded 1946 MA, MSc Principal & Prof of GUJARATI—K B. Vyas, MA, LOGIC AND PHILOS.—V M Kulkarni, MA, PERSIAN—A S Kadil, MA, BIOL—H V. Kashyap, MSc PhD 33 other Profs, Lectrs. and Demis

GENERAL INFORMATION

Following upon the report of a cttee under the chairmanship of the Hon G V Mavalankar, an act was passed in 1949 by the Bombay legislature for the estab and incorporation of the Gujarat Univ as a teaching and affiliating univ in the province of Bombay

Postgrad teaching and res. is carried out in the 4 univ. depts., 5 recognized instns, and 59 postgrad. centres for teaching estab. in affiliated colls in the univ area.

CONSTITUTION There are 3 principal academic and executive bodies, viz senate, syndicate and academic council. The senate is largely composed of elected members in different constituencies representing different academic groups such as registered grads., teachers, secondary teachers. The principals of affiliated colls. and hds. of recognized instns and a few persons holding public offices are *ex-officio* members. There are also 20 members nominated by the chancellor. The syndicate, the principal executive body, also has elective membership. The members of the senate and appropriate constituencies in this behalf elect the syndicate for a term of 3 yrs. The academic council is largely concerned with all academic matters such as courses of study, standards of passing and classes, text-books, etc. Every chairman of the bd of study is an *ex-officio* member of the academic council. In addition, it has 3 representatives each of the principals and hds. of recognized instns. The vice-chancellor, registrar, deans of facs and hds of univ depts. are the other *ex-officio* members of the academic council

INCOME (1959-60) Total. Rs 3,390,535 (govt. grants, Rs. 459,050 (recurring), Rs 485,000 (non-recurring), endowments, Rs 22,270, fees, Rs. 2,109,813, other sources, Rs. 314,393)

FACULTIES AND DEANS *Agric*, Principal M K Desai, *arts*, Principal K L. Desai, *Ayurvedic med*, Principal V V Vaidia; *comm.*, Principal S C Pathak; *law*, Principal H S Sanghavi; *med.*, N C Shah, MB BS, FRCS, *sci*, Principal Y G Naik, *technol.*, Principal S. K Katrak

LIBRARIES 67,643 vols

FIRST DEGREES 4 yrs —BA general or special, BCom, BSc 3 yrs after ISc—BE (civil, mech & electr), BPharm 5½ yrs. after ISc—MB BS 2 yrs after IA, ISc or ICom (or 2 yrs. after BA, BSc or BCom)—LLB

HIGHER DEGREES. MA (2 yrs after BA gen or spec.), MCom (2 yrs. after BCom), BEd (1 yr postgrad), MED (1 yr. after BEd), MSc (1 yr after BSc), ME (2 yrs after BE), LLM (2 yrs after LLB), MPharm (2 yrs after BPharm), BSc(Med) (1 yr after MB BS), MSc(Med), MD, MS (each 2 yrs after MB BS); PhD (3 yrs after bachelor's degree or 2 yrs after master's degree); DSc (2 yrs. after PhD or 3 yrs after master's degree or 6 yrs after bachelor's degree), DLitt (2 yrs. after PhD or 3 yrs after master's degree or 7 yrs after bachelor's degree)

EXTERNAL DEGREES The univ holds external exams in arts up to BA general and BA special standards. Only candidates whose mother tongue is Gujarati or who have lived in the state for 6 mos prior to their applicn for registration are eligible to enrol for external exams

DIPLOMAS Undergrad TD, 1 yr, Dip Pharm, 2 yrs Postgrad labour welfare (DLW), 2 yrs

FEES. *Examination* BA general and special, internal, Rs 50, external, Rs 75; MA, Rs 75 BCom, Rs 50, MCom, Rs 100, BEd, Pt I, Rs 15, BEd, Pt II, Rs 15, Med, Rs 75, BSc (principal), Rs 50, BSc (subsidiary), Rs 35, MSc, Rs 100, BE (civil, mech & electr), Rs 100 each, MB, Rs 100, LLB, Rs 60, LLM, Rs 150, MB BS, Rs 75, BPharm, Rs 75, MPharm, Rs 200; MD, Pt I, Rs 100, MD, Pt II, Rs. 200, MS, Pt I, Rs 100, MS, Pt II, Rs 200, BSc (medical), Rs. 100; MSc (medical), Rs 200, PhD (by thesis), Rs 200, PhD (French & German translation), Rs. 25 *Tuition* (in postgrad schs of the univ) arts & maths, Rs 75 per term, sci, Rs. 125 per term

ACADEMIC YEAR Two terms Term dates (approx) June 15 to Oct. 15, Nov 5 to March 15 (med, April 15).

LANGUAGE OF INSTRUCTION. Gujarati

STUDENT RESIDENCES Each affiliated coll provides hostel accomm for its own students Fees vary from coll to coll

NATIONAL CADET CORPS 4th & 7th Bombay, and 1st Saurashtra bns, 1st Bombay EME, 4th Bombay Girls troop, Surat indesp co, Bhuj indesp co., Bhuj Saurashtra E.M.E.

STUDENT HEALTH SERVICE. Full-time medical officer. All new entrants to univ medically examined, free surgical and medical aid in appropriate cases. New student health centre on univ campus planned (approx cost Rs 200,000)

STUDENTS' UNIONS In this mainly affiliating univ. there is no central student organization. Each affiliated college has its own students' union.

which normally arranges cultural, sporting and extracurricular activities for the students.

PUBLICATIONS. *Annual Report*, *Handbook, Part I* (Rs. 2), *Handbook, Parts II* (1958 edition, Rs. 12) and *III* (vol I, Rs. 2.62, vol II, Rs. 3.37), *Univ Bulletin* (Rs. 1, annual sub., Rs. 4), *University Journal Vidya* (Rs. 3).

THE YEAR 1960

Statistics

STUDENT NUMBERS, March 1960

	Full-Time	Part-Time	External
Men	23,953	—	5017
Women	5,036	—	1097
Total	28,989	—	6114

Distribution by Faculties *Arts* (incl educn), 13,733, *Ayurveda*, 187, *comm*, 3449, *engin*, 1010, *law*, 1398, *med.* (incl pharm), 1326, *sci*, 7886 Total 28,989

Included in the figures above are —

Postgraduate students, 2144

New admissions (full-time), 16,349 (incl students coming from other univs)

Students from other countries, nil

DEGREES AWARDED (1959-60) *Agric* · BSc (Agriculture), 4. *Arts* (incl educn) BA, 1977, MA, 147, BEd, 155, MEd, 6, PhD (arts), 3. *Comm* · BCom, 406, MCom, 34, PhD (comm), 1. *Engin* BE, 205. *Law* LLB, 324, LLM, 4. *Med* MB BS, 48, MS, 6; MD, 9, MSc (Pharm), 1, BPharm, 44, MPharm, 5. *Sci* : BSc, 540, MSc, 97, PhD (sci), 4.

DIPLOMAS AWARDED (1959-60). Labour welfare, 18

UNIVERSITY OF JABALPUR*

Founded 1957

Postal Address Jabalpur, Madhya Pradesh, India

Cables and Telegrams University, Jabalpur

Telephones . Jabalpur 712, 713, 715

CHANCELLOR—H V PATASKAR, BA LLB, Governor of Madhya Pradesh

PRO-CHANCELLOR—S D. SHARMA, PhD Camb, MA LL.M, Minister of Education of the State of Madhya Pradesh

VICE-CHANCELLOR—Pandit K L DUBEY, BA LLB

RECTOR—U MISRA, MA LLB

TREASURER—S K. PATERIA, MA

REGISTRAR—K. R. PANDYA, MA

TEACHING STAFF

(Teachers recognized as Professors by the University)

Economics

Bhargava, R. N., MA DLitt

Education

Misra, A., MA BSc LLB BT DLitt

Engineering, Civil

Lakshmanaswamy, A., ME

Engineering, Telecommunication

Sarvate, V V, MSc

English

Sen Gupta, S. C., MA PhD

Entomology

Gupta, R. L., BA Ag PhD

History

Sinha, H. N., MA PhD Lond.

Medicine

Sachdeva, J C., MSc PhD MB BS (Physiol)
Mishra, M P., MD BS DTM&H

Rao, Y G., MB BS

Goswami, S L, MD BS

(Pharmacol & Therapeutics)

Wahi, P. N., MD BS (Pathol & Bacteriol.)

Koshal, K D, MB BS, FRCS (Surg.)

Bhargava, R. P., MB BS (Physiol)

Chowdhary, D. S., MB MS DOMS

PhD

Chaudhary, M S., BSc MD BS (Anat)

Goel, I B., MB MS DOMS (Ophthalmol)

Wagh, K V., MD BS (Obstet. & Gynaecol)

Philosophy

Sharma, C. D., MA DPhil DLitt Alld.

Physics

Mukerjee, U., MSc

Political Science

Asrivatham, E, MA BD PhD

Sociology

Motwani, K., MA PhD

Veterinary Science

Mangrulkar, M Y, MSc D'TVM Edin

ADMINISTRATIVE AND OTHER STAFF

Asst Registrar : E S. Elias, MA Officer on Phys Educn : C S Rathore, DipPhysEd Luck,
Sp Duty. K L Verma, MA LLB Dir of MA Univ Engineer U. C Jain, BE

* Member of the Association of Universities of the British Commonwealth

AFFILIATED COLLEGES

[Except for the S.S.A. and T.R. Mahavidyalaya, Katni, all are in Jabalpur BA, BCom, etc.,
[After the name of a coll. means that courses are provided there for BA, BCom, etc.]

D. N. JAIN MAHAVIDYALAYA (Founded 1949)
(tel. 812) ICom, BA, BCom, MA, MCom
Principal—B. S. Audholia, MA BCom 23
Teachers.

GOVERNMENT COLLEGE OF AGRICULTURE (F 1955) (tel. 708) BSc(Agr), MSc(Agr) Principal—R. L. Gupta, BA BSc PhD 26 Teachers.

GOVERNMENT ENGINEERING COLLEGE (F. 1947) (tel. 128) BE (hons), ME Principal—V. M. Dokras, MSc PhD Col 49 Teachers

GOVERNMENT MEDICAL COLLEGE (F 1955) (tel. 221) MB BS Dean—J. C. Sachdev, MSc PhD MB BS 51 Teachers

GOVERNMENT POLYTECHNIC (F 1955) (tel. 647) Dipl in Engin Principal—S. M. Dharwal, BE 41 Teachers

GOVERNMENT VETERINARY COLLEGE (F 1948) (tel. 41) BVSc, MVSc Principal—M. Y. Mangulkar, MSc DTVM Edin 17 Teachers

G. S. COLLEGE OF COMMERCE AND ECONOMICS (F 1948) (tel. 130) BCom, MCom, MA. Principal—P. L. Baldua, MA BCom 24 Teachers

HAWABAGH WOMEN'S COLLEGE (F 1928) (tel. 345) DipT, Dipl in Nursery Educn. Principal—Miss Zillah L. Soule, MA MEd 23 Teachers

HITKARNI LAW COLLEGE (F 1933) LLB Principal—S. C. Upadhyaya, MA LLB 4 Teachers.

HITKARNI MAHAVIDYALAYA (F 1933) (tel. 327) BA, MA Principal—N. M. Deshpande, MA LLB 19 Teachers

INSTITUTE OF LANGUAGES AND RESEARCH (F 1956) (tel. 696) Management transferred to univ from 1/4/60 for 5 yrs initially PhD in Sanskrit, Hindi, Engl, Hist Du.-in-charge—H. N. Sinha, MA PhD Lond 3 Teachers.

MAHAKOSHIAL MAHAVIDYALAYA (F. 1936) (tel. : 680). BA, BSc, MA, MSc Principal—U. Mukerjee, MSc 121 Teachers

MAHILA MAHAVIDYALAYA (F 1944) (tel. 946). BA Principal—G. M. Ranade, MA BT. 13 Teachers

M. H. COLLEGE OF HOME SCIENCE FOR WOMEN (F 1954) (tel. 146) BA, ISc, BSc, BHSc Principal—Mrs. Kusum Mehta, MA BT 40 Teachers

NEW EDUCATION SOCIETY LAW COLLEGE (F. 1956) LLB Principal—R. C. Sanghi, MA LLB 3 Teachers

PRANTYA SHIKSHAN MAHAVIDYALAYA (F 1889) (tel. 193) DipT, BT, MA (ApplPsychol), MEd Principal—A. Misra, MA BSc LLB BT DLitt. 43 Teachers

ST. ALOYSIUS' COLLEGE (F 1951) (tel. 718) BA, BSc Principal—Rev. H. Van Engelen. 16 Teachers

SHYAM SUNDER AGARWAL COLLEGE, Sihora (District Jabalpur) (F 1957) BSc, BA Principal—M. C. Agarwal, MA MSc BT 12 Teachers

TILAK RASHTRIYA MAHAVIDYALAYA, Katni (District Jabalpur) (F 1958) BA, BSc Principal—... 8 Teachers.

GENERAL INFORMATION

Although the Univ. of Jabalpur is among the youngest of the univs of India, the city of Jabalpur is one of the oldest centres of univ educn in India. The Radhakrishnan commission recognized the 'traditions of higher education' in Jabalpur and suggested that a unitary univ might be developed there. This proposal was further examined by the Cttee on the Financing of Education of Madhya Pradesh, apptd. by the state govt., which recommended (in 1952) 'the immediate establishment of a univ of the federal type at Jabalpur'. The second 5-yr. plan for the former state of Madhya Pradesh included a scheme for the establishment of a univ. at Jabalpur and an act setting up the univ. came into force in 1957.

Almost all the colls affiliated to the univ are in the city of Jabalpur, the univ's territorial jurisdiction being restricted to the revenue district of Jabalpur. It is intended to develop the univ. along federal lines and to encourage the maximum intercollegiate co-operation, especially in relation

to postgrad courses and the development of a corporate life for the univ as a whole. The academic council of the univ frames the annual teaching programmes of the colls as a whole and the recognition of profs & readers and the appt. of teachers of private constituent colls is normally made on the recommendation of the selection cttees of the univ. Colls which provide postgrad courses in at least 2 subs and fulfil certain other conditions are to be treated as 'constituent colls' (there are none at present) and will be more closely linked to the univ than the affiliated colls.

CONSTITUTION The present vice-chancellor holds his office in an honorary capacity, there being a full-time rector. There are 10 facs (see below) and 37 depts of study subordinate to them. In the constitution of the univ. bodies, the element of election has been kept to a minimum, while the functions of the court, academic council and executive council are similar to those of the

corresponding bodies in other Indian univs, membership of them will in most cases be *ex officio* according to seniority by rotation or by nomination. The registered grads, however, elect 20 members to the court

INCOME (1960-61) Maintenance grant from state govt, Rs 100,000, devel grants from state govt and univ grants commission, Rs 100,000 and Rs. 50,000 respectively; exam and other fees, Rs 458,953

FACULTIES AND DEANS *Agric*, Principal R L Gupta (entomol), *arts*, Dr H N Sinha (hist), *comm.*, Principal B S Audholia, *educn.*, Principal A. Misra, *engin.*, A Lakshmanaswamy (civil engin); *home sci*, Principal (Mrs) Kusum Mehta, *law*, Justice T C Shrivastava, *med*, Dr J C Sachdeva, *sci.*, Principal U. Mukerjee (phys), *vet sci*, Principal M Y. Mangrulkar.

UNIVERSITY PRECINCT. The present univ offices are in the Shaheed Smarak Bhavan, Jabalpur. Construcn of convocation hall & admin. bldgs. on a 61-acre site given to the univ. by the state govt, nr the Mahakoshal Mahavidyalaya (the oldest coll in the state and the principal univ. centre of postgraduate work), is nearing completion. Admin offices move to new bldg in Sept 1961. Construcn. of a non-resident student centre has commenced. Arts bldg. and univ library will be started by Oct 1961

LIBRARY. 6107 vols.

FIRST DEGREES 3 yrs.—BA, BSc, BHSc, BCom, 4 yrs.—BE (hons.), BSc(Agr), BVSc, 4½ yrs.—MB BS.

HIGHER DEGREES 1 yr.—BED, BEd(Basic), MEd; 2 yrs.—LLB, MA, MA(ApplPsychol), MSc, ME, MSc(Agr), MCom, MVSc, 2 yrs from master's degree—PhD.

DIPLOMAS. 1 yr.—economic planning; 2 yrs.—nursery educn, teaching, 3 yrs.—engin

ORIENTAL TITLES. 2 yrs.—Pragna, Visharad (1 yr for BA& with Sansk), 3 yrs.—Shastri (1 yr. for MAs with Sansk.)

STUDY LEAVE. Rules for teachers in univ. depts. are at present under consideration.

FEES. Rs 126 per session

ACADEMIC YEAR (1961-62) July to April 3 terms Term dates July 1 to Oct 17, Nov 11 to Dec 23, Jan 1 to April 30

LANGUAGES OF INSTRUCTION. Hindi for IA, BA, ISc(HomeSci), BHSc, ICom, BCom, ISc, DipT, dipl. in nursery educn. Other courses in English

POSTGRADUATE AWARDS. Res fellowships of Rs 200 each, tenable for 2 yrs, awarded annually by univ. for study leading to PhD.

NATIONAL CADET CORPS Sr div of N.C.C : authorized strength is 1204.

EMPLOYMENT ADVISER. To help univ. grads to secure suitable employment, a part-time employment adviser has been appointed.

STUDENTS' UNION SOCIETY. A univ. students' union has been formed, which runs a reading-room and library. The pres. and sec are elected by the students themselves.

PUBLICATIONS *Calendar*; prospectuses for exams.; journals of academic socs.

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	7773	—
Women	1752	—
Total	9525	—

Distribution by Faculties *Agric*, 293; *arts*, 2786, *comm.*, 1464, *educn.*, 417, *engin*, 1140,

home sci, 282, *law*, 460; *med*, 392, *sci*, 2006, *vet. sci*, 285 Total 9525

DEGREES AWARDED (1959-60) *Agric* BSc (Agr), 41 *Arts* BA, 260, MA, 101, MA (ApplPsychol), 9 *Comm* BCom, 85, MCom, 25 *Educn.* MEd, 7, BT, 46, BT(Basic), 18 *Engn* BE (hons.), 63, ME, 2 *Home sci* BHSc, 26. *Law* LLB, 48 *Sci.* BSc, 73, MSc, 28. *Vet. sci* BVSc, 32.

JADAVPUR UNIVERSITY*

Founded 1955

Postal Address P O Jadavpur University, Calcutta 32, India

Cables and Telegrams Jadavpur University, Calcutta

Telephone 46-6519, 46-4771, 46-4772

PRESIDENT—B. C. ROY, MD, MRCP, FRCS

RECTOR—T. SEN, DrIng *Munch*, MIE(India)

TREASURER—S. S. BAGCHI, BEE, MIE(India)

REGISTRAR—P. C. V. MALLIK, MA *Camb*

CHIEF LIBRARIAN—A. K. MUKHERJEE, MA DipLib *Calc*

TEACHING STAFF

[†=Part-Time]

UNIVERSITY COLLEGE OF ARTS

Principal—A. K. Datta, MA *Calc.* & *Oxon.*

Bengali			English		
Bose, G. C., MA <i>Dacca</i>	Prof., Hd. of Dept		Majumdar, A. K., MA		Lectr
Dutta, A. K., MA <i>Dacca</i>	Reader		Dutta, K. K., MA <i>Calc</i>		Lectr
Goswami, K. F., DPhil <i>Calc</i>	Reader		9 Res Assts		
Goswami, M. M., DPhil <i>Calc</i>	Lectr				
Chatterjee, S. K., MA <i>Calc</i>	Lectr				
Ghosh, P. R., MA <i>Calc</i>	Lectr				
Bhattacharyya, D. P., MA <i>Calc.</i>	Lectr.				
† Res Asst					
Comparative Literature					
Bose, B., MA <i>Dacca</i>	Prof., Hd. of Dept		Chatterjee, S., MA <i>Calc</i> , DPhil <i>Oxon</i>	Prof., Hd. of Dept	
Guha, N., MA <i>Calc.</i>	(on leave) Reader		Chatterjee, S., MA <i>Calc</i> , PhD <i>Lond.</i>	Reader	
Das Gupta, A. R., MA <i>Calc.</i>	Lectr		Williams, H. M., MA <i>Wales</i>	Reader	
Bhattacharyya, N. N., MA <i>Calc.</i> & <i>Dacca</i>	Lectr.		Mukherjee, D., MA <i>Calc.</i>	Lectr.	
Bisnopal, S. S., MA LLB <i>Calc</i>	Lectr		Chatterjee, V., MA <i>Calc.</i>	Lectr.	
Fallon, Fr. P.	† Lectr		Sinha, B., MA <i>BT Calc</i>	Lectr	
Dev, A. K., MA	Lectr		Guha Roy, Miss Gayatri, DPhil <i>Calc</i>	Lectr	
McCutchion, D. J., MA <i>Camb</i>	Lectr		Mukherjee, N. B., MA <i>Calc</i>	Lectr.	
Ghosh, H. J., MA <i>Calc</i>	Lectr.		Dey, Miss Pranati, MA <i>Calc</i>	Lectr.	
			Mitra, S. N., MA <i>Calc</i>	Lectr.	
			Ganguly, N. L., MA <i>Calc</i>	Lectr	
			De, R. P., MA <i>Calc</i>	Lectr	
			Roy, S. N., MA <i>Calc</i> , PhD <i>Lond.</i>	Lectr	

Economics

Chakraborty, P., MA <i>Calc</i>	Prof., Hd. of Dept.	
Banerjee, H., DSc(Econ) <i>E H Rotterdam</i>	Reader	
Sarvadhikary, P., MSc <i>MA Calc.</i>	Reader	
Ghosh, A., DPhil <i>Calc</i>	Reader	
Datta, A. K., MA <i>Calc</i>	(on leave) Lectr.	
Banerjee, Mrs. Anita, BA <i>Calc</i> & <i>Camb.</i>	Lectr.	
Das Gupta, A. K., BA <i>Calc</i> & <i>Camb</i>	Lectr	
Majumdar, K. K., MA <i>Calc</i>	Lectr	
Roy, P., MSc <i>III</i>	(on leave) Lectr.	
Dasgupta, Mrs. Sipra, MA <i>Calc</i>	Lectr.	
Sau, R. K., MA	Lectr	

History

Gupta, P. C., MA <i>Calc</i> , PhD <i>Lond</i>	Prof., Hd. of Dept	
Bhattacharyya, S., MA <i>Calc.</i>	Reader	
Mukherjee, B. P., MA <i>Calc</i>	Reader	
Bose, N. S., MA <i>Calc</i> , PhD <i>Lond</i>	Lectr	
Maiti, S. K., MA <i>Calc</i> , PhD <i>Lond.</i>	Lectr	
Sarkar, Miss Sipra, MA <i>Calc</i>	Lectr	
Mukherjee, A., MA <i>Calc</i>	Lectr	
Majumdar, B. K., DPhil <i>Calc</i>	Lectr	
Guha, R., MA <i>Calc</i>	(on leave) Lectr.	
Bhattacharyya, S., MA <i>Calc</i>	Lectr	

* Member of the Association of Universities of the British Commonwealth

International AffairsChakravarti, P. C., MA *Dacca*, PhD *Lond.*

Prof, Hd of Dept

Rehfeld, W., DPhil *Fran* †ProfDutta, A. K., MA *Calc.*, MSS *Inst for Soc.**Studies (The Hague)*, PhD *Ley*Mitra, Miss Basanti, MA *Col* LectrRoy, J. K., MA *Calc* LectrBose, T. C., MA *Calc* LectrBhattacharyya, G., MA *Dacca* LectrGhosh, K. K., MA *Calc* LectrBhattacharyya, M., MA *Calc* LectrVasil, R. K., PhD *Luck* LectrBandyopadhyay, J., MA *Calc* LectrBanerjee, A. C., MA *Calc* Lectr

2 Visiting Lectrs

LanguageRehfeld, W., DPhil *Fran.* †Prof.Bisnopal, S. S., MA LLB *Calc* LectrBhattacharyya, S., BA *Calc* †Lectr**Philosophy**Bhattacharyya, N., MA *Calc.*

Prof, Hd of Dept

Banerjee, K. K., MA *Calc.*Bhattacharyya, S. K., DPhil *Calc*Sen, P. K., DPhil *Calc*Mukherjee, M. L., MA *Calc*Banerjee, D., MA *Calc*Ganguly, A. K., MA *Calc*Ganguly, S. N., MA *Calc* (on leave)

Sastri, P. P.

Sen Gupta, P. K., MA *Calc.*

Mukhopadhyay, P. K., MA

Bhattacharyya, G. P., MA *Dacca***Sanskrit**Mukherjee, R. R., DPhil *Calc*

Prof., Hd of Dept

Goswami, S. N., DPhil *Calc* LectrBhattacharyya, G. M., MA *Calc* LectrBhattacharyya, M. S., Sukumari, MA *Calc* LectrChakravarti, M. K., MA LLB *Calc* Lectr

Bose, N. K., MA Lectr

Gupta, Miss Sanjukta, MA *Calc*,PhD *V.B.*

1 Visiting Prof Lectr.

UNIVERSITY COLLEGE OF ENGINEERING AND TECHNOLOGYPrincipal—T. Sen, DrIng *Munch*, MIE(India)**Chemical Engineering**

Prof, Hd of Dept.

Ghosh, B., MSc *Calc*, DSc *Carnegie Tech*

(on leave) Prof.

Dutta, D. K., BSc *Calc*, BChEMS *Carnegie Tech*

Prof, Actg Hd. of Dept

Chanda, B. C., DrRerNat *T.H.Aachen*,

BChE

Reader

Bose, N. K., MSc *Calc.*, ScD *Col* ReaderRoy Choudhury, K. C., BSc *Calc*,DrIng *T.H.Karlsruhe*, BChE

Reader

Sen Gupta, K., MSc *Calc* Lectr

Sinha, A. P., BChE Lectr

Ghosal, S. R., BChE Lectr

Mukherjee, S. K., BChE Lectr

Srimani, B. N., MS *Corn.*, MChE Lectr

4 Visiting Lectrs, 3 Res Assts

Food Technology DivisionBose, A. N., MSc *Calc*, PhD *M.I.T.*

(on leave) Prof

Ghosh, T. K., MChE DrScTech

E.T.H.Zurich

Reader

3 Visiting Lectrs, 4 Res Assts.

Civil EngineeringRay, K., BSc *Calc.*, BSc(Eng) *Lond.*

MICE

Prof, Hd of Dept

Som, P. K., BE *Calc*, MSc(Eng) *Lond* ProfNeogy, A. K., BE *Calc* ProfChoudhury, N., BE *Calc*, MCE

(on leave) Reader

Sarma, A. K., BArch *Kharagpur* Lectr.Ghosh, B. N., BE *Calc* LectrSinha, A. K., BE *Calc* Lectr.Das, S. C., BTech *Kharagpur* Lectr.Choudhury, T. K., BTech *Kharagpur* Lectr

Roy, A. K., BCE Lectr

Das Gupta, R. K., BTech *Kharagpur* LectrMajumder, N. K., BTech *Kharagpur* LectrDas, M., BE *Calc* LectrChakraborty, G. B., BSc *Calc.*, BEE Lectr

5 Visiting Lectrs

Electrical EngineeringGuha, H. C., BSc *Edin.*, MIEE

Prof, Hd. of Dept

Chowdhury, J. K., MSc *Calc*, MScTech*Manc.*

Prof

Deb, D. K., MS *Northwestern*

Prof.

Das Gupta, S. C., BEE

Prof.

Patra, S., PhD *Manc*, BEE

Prof.

Kar, M. M., BSc *Calc.*, BEE

Reader

Roy Bardhan, D. N., BEE

Reader

Purkayastha, G. P., MS *Mich*, BEE

Reader

Roy, N. N., DrIng *T.H.Karlsruhe*, BEE

Reader

Saha, A. R., MScTech *Calc*

Reader

Dey, G. C., BEE

Reader

Bhattacharyya, S. N., BSc *Ban.*, MSc *Calc*

Reader

Mukhopadhyaya, P., BEE

Reader

Mondal, P. C., BSc *Calc*, BEE

Lectr.

Sadukhan, P. K., BEE

Lectr.

Das, M. K., BEE

(on leave) Lectr.

Nag, S. K., BEE*Ray

Lectr

Dhar, R. N., BEE

Lectr

Roy, A. K., BEE

Lectr.

Mandal, R K, MScTech <i>Calc</i>	Lectr	Bhaduri, S N., BCom <i>Calc.</i> , BME	
Bandyopadhyay, S R., BEE	Lectr	(on leave)	Lectr
Adhikari, T. B., BEE	Lectr	Sarkar, J. C., BME	Lectr.
2 Visiting Lectrs		Chatterjee, P. B., BME	Lectr.
		Kundu, N. C., BME	Lectr.
		Choudhury, P. C., BME	Lectr.
		Chakraborty, P. K., BME	Lectr.
		Das, S. K., BME	Lectr.
		Sen, P. K., BME	Lectr.
		Das, K. C., BME	Lectr.
		Bhowmik, M. N., BSc <i>Calc.</i> , BME	Lectr.
		Das, N. C., BME	Lectr.
		Das, A. K., BME	Lectr.
		Majumdar, K. P., BSc <i>Calc.</i> , BME	Lectr.
		Saha, B. B., BME	Lectr.
		Mallik, B. K., BME	Lectr.
		Bhowmick, A. K., BME	Lectr.
		Bose, B., BME	Lectr.
		Datta, S., BME	Lectr.
		Das Talukdar, N. K., BME	Lectr.
		Kundu, K. N., BME	Lectr.
		Sen Gupta, N. B., BME	Lectr.
		Das, A. M., BME	Lectr.
		Roy, N. N., BME	Lectr.
		Chakraborty, K. N., BSc <i>Calc.</i> , BME	Lectr.
		Pal, A. K., BME	Lectr.
		Pal, A. K., BME	Lectr.
		Mukherjee, S. S., BME	Lectr.
		Telecommunication Engineering	
		Chatterjee, J. S., DPhil <i>Calc</i>	Prof, Hd of Dept
		Kundu, P., MSc <i>Calc</i>	Prof
		Banerjee, S. B., BE <i>Bom</i> , DipEE <i>Kharagpur</i>	
			Reader
		Ganguly, U. S., MScTech <i>Calc.</i>	Reader
		Sen, P. C., BEE	Lectr
		Nag, B., MScTech <i>Calc.</i>	Lectr

UNIVERSITY COLLEGE OF SCIENCE
Principal—A. K. Majumder, DSc *Calc.*

Chemistry, Inorganic		Chemistry, Organic	
Majumder, A. K., DSc <i>Calc</i>	Prof, Hd. of Dept.	Bhattacharyya, B. K., DSc <i>Calc.</i>	
De, A. K., DPhil <i>Calc</i>	Reader		Prof, Hd. of Dept.
Sen, D., DPhil <i>Calc</i>	Reader	Dutta, J., DPhil <i>Calc</i>	Reader
Roy, N. N., DSc <i>Calc</i>	Reader	Chatterjee, A., DPhil <i>Calc</i>	(on leave) Reader
Sen Gupta, J. G., MSc <i>Calc</i>	(on leave) Lectr	Banerjee, A., DPhil <i>Calc</i>	Reader
Chakraborty, A. K., MSc <i>Calc.</i>	Lectr.	De, P. K., MSc <i>Calc</i>	Lectr.
Sen Sarma, K. P., MSc <i>Calc</i>	Lectr.	Sen, K.,	(on leave) Lectr.
Sen Gupta, A. K., MSc <i>Calc</i>	(on leave) Lectr.	Mukherjee, B. B., MSc <i>Calc.</i>	Lectr.
Sur, B., MSc <i>Calc</i>	Lectr.	Datta, S., MSc <i>Calc</i>	Lectr.
Roy, A. K., DPhil <i>Calc.</i>	Lectr.	Mukherjee, R. N., MSc <i>Calc</i>	Lectr.
Goswami, B. K., MSc <i>Calc.</i>	Lectr.	5 Res Asss	
Dutta, R. L., MSc <i>Dacca</i>	Lectr.		
Guha, S., MSc <i>Dacca</i>	Lectr.	Chemistry, Physical	
Mitra, B. K., MSc <i>Calc.</i>	Lectr.	Mukherjee, S. N., DSc <i>Calc</i>	Prof, Hd. of Dept.
Gupta, P. K., MSc <i>Calc.</i>	Lectr.	Das, M. N., DPhil <i>Calc.</i>	Reader
Chatterjee, A. B., MSc <i>Calc.</i>	Lectr.	Rohatgi, Miss Krishna K., MSc <i>Calc.</i>	
Das, M. K., MSc <i>Calc</i>	Lectr.	DPhil <i>Oxon</i>	Reader
Saha, S. R., MSc <i>Calc</i>	Lectr.	Bhattacharyya, P. K., DPhil <i>Calc</i>	Lectr.
Lahiri, S., MSc <i>Dacca</i>	Lectr.	Pochhali, L., DPhil <i>Calc.</i>	Lectr.
6 Res Asss		Bhattacharyya, G. C., MSc <i>Calc</i>	Lectr.

Roy, K. C., DPhil *Calc*
 Chatteraj, D. K., MSc *Calc*
 Kundu, K. K., MSc *Calc*
 13 Res Assts

Geological Sciences

Deb, S., FNI Prof., Hd of Dept
 Mukherjee, B. C., MSc *Calc*, FGS Reader
 Dutta, P. C., MSc *Calc* Reader
 Roy, S., DPhil *Calc* Reader
 Hore, P. N., MSc *Calc* (on leave) Lectr
 Chakraborty, K. L., MSc *Calc*, PhD Lectr
 Chakraborty, P. S., MSc *Calc*. Lectr.
 Bhattacharyya, T. K., MSc *Calc*. (on leave) Lectr

Mitra, K. C., MSc *Lond* Lectr.
 Sarkar, S. C., MS Lectr
 Ghosh, S. K., MSc *Calc* Lectr
 Bhattacharyya, A. K., MSc Lectr
 Basu, N. K., MSc *Calc*. (on leave) Lectr
 Mitra, S. N., MSc Lectr
 Chanda, S. K., MS Lectr
 Sanyal, Misra Anjali, MA BT *Calc* Lectr
 Bhattacharyya, A. K., MSc Lectr
 4 Visiting Lectrs, 12 Res Assts

Mathematics

Sen, B. B., DSc *Calc*, FNI Prof., Hd. of Dept.
 Mukherjee, D. N., MSc *Calc* Reader
 Bhattacharyya, R., MSc *Calc* Reader
 Bhattacharyya, R. N., DPhil *Calc* Reader
 Dutta, M., DPhil *Calc*. Reader
 Chatterjee, B. B., DPhil *Calc* Reader
 Chakraborty, S. K., DPhil *Calc* Reader
 Mitra, A. K., MSc *Calc*. Lectr.
 Mitra, M., MSc *Calc* Lectr.
 Khamrui, S. R., MSc *Calc*, PhD Lectr.
 Bhattacharyya, R. K., MSc *Calc* (on leave) Lectr
 Dutta, S. K., MSc *Calc* Lectr.
 Mitra, M. K., MSc *Calc*. Lectr.

Lectr. Ghosh, K. M., MSc *Calc* Lectr
 Bagchi, K. M., MSc *Calc* Lectr
 Sen, A. R., MSc *Calc* Lectr.
 Das, S. P., MSc *Calc*. Lectr.
 Neogi, P., MSc *Calc*. Lectr.
 Chakraverty, B., MSc *Calc*. Lectr.
 Das, B. R., MSc Lectr.
 Majumder, S. R., MSc *Calc* Lectr
 Sinha, D. K., MSc *Calc* Lectr
 1 Res Asst.

Physics

Chatterjee, S. D., DSc *Calc*, FNI Prof., Hd of Dept
 Sen, H. P., MSc *Calc*. Reader
 Ganguly, S. C., DPhil *Calc* Reader
 Sen, S. N., DPhil *Calc*. Reader
 Roy, T. C., DPhil *Calc* Reader
 Bhattacharyya, B., MSc *Ban.*, PhD *Camb.* Reader
 Sutradhar, N., MSc *Calc* Lectr
 Das, N. C., MSc *Calc* Lectr
 Sural, D., MSc *Calc*. Lectr.
 Banerjee, A. N., MSc *Dacca* Lectr
 Coondoo, L. K., MSc *Calc*. Lectr
 Mukherjee, S. K., MSc *Calc*. Lectr
 Khan, D. C., MSc *Calc* Lectr
 Sanyal, S. B., DPhil *Calc* Lectr.
 Dutta, S. P., MSc *Calc* Lectr.
 Chatterjee, D., MSc *Calc*. Lectr.
 Bandyopadhyay, K. G., BEE Lectr
 Gupta, N. N., MSc *Calc* Lectr.
 Sen, D., MSc *Calc* Lectr.
 Syam, P., MSc *Calc* Lectr
 Ghosh, S. K., DPhil *Calc* Lectr
 Ganguli, S. R., MSc *Calc*. Lectr
 Roy, H. P., MSc *Calc* Lectr.
 Choudhuri, A., MSc *Calc*, PhD *Kharagpur* Lectr
 Ghosh, N. C., MSc *Calc* Lectr
 Chakraborty, D., MScTech *Calc* Lectr
 4 Res Assts

ADMINISTRATIVE AND OTHER STAFF

Provost G C Sen, MSE *Mich* Librarian
 N C Maistra, BSc *Alld*, MA DipLib *Calc* Med
 Officer T J Gupta, MB DTM *Calc* Hostel
 Supts. K C. Chatterjee, MSME *Covallis*,
 BME, J C Das, DrIng *TH Stuttgart*, BME
 Dir. of Youth Welfare H Biswas, BSc DipJour
 DipSocSci *Calc* Phys. Instrs. P. C Banerjee;

J Pal Controller of Exams D N Chakraborty, BEE Asst Registrar S. N Khan, BA
Calc. Statistical Officer A K Banerjee, MA
Calc Supt of Admission S K Chakraborty,
 BEE Univ Engineer A K Sen Gupta, BSc
 BE *Calc*

GENERAL INFORMATION

The National Council of Education was started in 1906 to impart educn. 'on national lines and exclusively under national control, not in opposition to, but standing apart from, the existing system of primary, secondary and collegiate education, attaching special importance to a

knowledge of the country, its literature, history and philosophy, and designed to incorporate with the best oriental ideals of life and thought the best assimilable ideals of the west, and inspire students with the genuine love for and desire to serve the country.' The council at first maintained

both arts and sci and technical depts., but finding that public demand for technical educn. was more insistent, the council devoted for the last 50 yrs almost the whole of its resources to technical educn through its coll of engin and technol.

In view of the fact that the coll. of engin and technol had been virtually functioning as a univ., and in order that the degrees of the National Council of Educn should receive statutory recognition, the govt of West Bengal with the concurrence of the govt of India enacted the necessary legislation for the establishment of a univ at Jadavpur, and so Jadavpur Univ came into being on Dec 24, 1955, by West Bengal Act XXXIII of 1955.

The Jadavpur Univ Act provides that 'any degree conferred by the National Council at any time between the 1st day of Jan 1944 and the commencement of this act shall, for all purposes, be deemed to be a degree corresponding to such degree of the univ as may be declared by the state govt.'

CONSTITUTION On the expiry of the 1st 4-yr. period after its incorporation all authority in the univ has come to rest in a body composed of the following members: pres., rector, treasurer, dean of fics, hds of institutions under univ, pres. of alumni assocn, chairman of institution of engineers, mayor of Calcutta corporation (all *ex officio*), 2 members elected by teachers other than profs, 2 elected by profs, 2 registered grads, 8 persons elected by National Council of Educn., 4 nominated by legal reps of founder donors and 5 representing the state and union govt. The pres. is the titular hd of the univ and the rector is the principal executive officer. Other principal officers are the treasurer (an honorary officer) and the registrar. The following bodies have been constituted to advise the univ on different matters: academic council, administrative council, finance council and development council.

The univ has no affiliated colls, but the coll of engin. and technol., the coll. of arts and the coll of sci. are constituent colls, and function as teaching depts. of the univ.

INCOME (1960-61) Total income Rs 6,198,780 (govt grants, 82.4 per cent, fees, 9.2 per cent, other sources, 8.4 per cent).

LIBRARY 89,750 vols

FACULTIES AND DEANS Arts, Prof. P. K. Guha (Engl), engin., Prof. H. C. Guha (electr engin.), sci., Prof. B. B. Sen (maths.).

ADMISSION. Students who have passed the higher sec. exam of any statutory bd exam or pre-univ exam or any exam recognized as equivalent, with sci or technical subjects, are eligible for admission to 1st yr of 5-yr integrated course in engin and those with sci or humanities, to 1st yr of BSc or BA course respectively. Those who have passed the inter sci or equivalent exam of any Indian univ with phys, chem and

maths are eligible for admission to 2nd yr and those who have passed the licentiate exam of the State Council of Engin and Technical Educn or such other statutory bodies or the dipl course exam of the Natl Council of Educn, Bengal, are eligible for admission to 3rd yr of the 5-yr integrated course. Students who hold dipls in engin. and are in service are eligible for admission to pt-time degree courses in civil, electr and mech engin. For postgrad course in food technol a student who holds the bachelor's degree in chem engin. (with food technol) or equivalent degree is eligible for admission.

FIRST DEGREES 3 yrs after class XI sch final or pre-univ course exam—BA hons, BSc hons., 4 yrs after ISC or equivalent or 5 yrs after class XI sch final or pre-univ course exam—BME, BEE, BTelE, BCE, BChE. There is no pass BA or pass BSc.

The exams of all statutory Indian univs are recognized as equivalent to the corresponding exams of the univ.

HIGHER DEGREES. 1 yr after corresponding bachelor's degree—MME, MChE, MCE, MEE, MTelE and MTech. 2 yrs. after corresponding bachelor's degree—MA, MSc in all subs. available in the univ. DSc, PhD awarded on submission of thesis on res. in sci. subject, after at least 2 yrs' work under supervisor recognized by the univ.

HONORARY DEGREES DSc, DLitt, DrEngg

STUDY LEAVE Study leave is granted to staff members for higher study or res approved by the univ.

FEES Annual tuition fees pre-univ. course, Rs 144, undergrad course, Rs. 180; postgrad course, Rs 240.

ACADEMIC YEAR One term. Pre-univ & undergrad courses. July 1-June 30; postgrad courses. Aug 1-July 31.

LANGUAGE OF INSTRUCTION and examination is English.

GRADUATES' ASSOCIATION Alumni assocn situated within campus.

STUDENT RESIDENCE For men. Jadavpur univ hostel, Calcutta, 32 (tel. 45-4446), 850 students. Fees Rs 120-Rs 144 plus admission fee of Rs 5.

STAFF RESIDENCES. Univ provides limited residential accomm. on campus for staff.

NATIONAL CADET CORPS Naval, an, signals and engin units of N.C.C.

STUDENT HEALTH SERVICE No provision at present except for annual med exam. A students' health centre is being establd where periodical check-ups will be arranged.

PUBLICATIONS Calendar; Prospectus, annually.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS *Bldgs completed*. hostels for men and women *Approaching completion*: postgrad. arts & sci. bldgs

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	2420	169
Women	371	—
Total	2791	169

Distribution by Faculties. *Arts*, 606, *engin*, 1843, *sci*, 511 Total. 2960.

Included in the figures above are —

Pre-University students, 112

Postgraduate students, 588

New admissions, 1076

Students from other countries, 20 (Countries from which largest numbers came Nepal, 12, Ceylon, 2, Bangkok, 2, Burma, 2)

DEGREES AWARDED (1960) *Arts*: MA, 113; BA (hons.), 15 *Engin*: BChE, 59; BCE, 34; BEE, 59, BME, 77 *Sci*: MSc, 47, BSc (hons.), 40.

DEATHS. S. N Datta (compar lit.), S C Sen Gupta (mech. engin)

UNIVERSITY OF JAMMU AND KASHMIR*

Founded 1948

Postal Address . Srinagar, Kashmir, India

Cables and Telegrams University, Srinagar

Telephone : Srinagar 230

CHANCELLOR—Y. K S Ji, MA

PRO-CHANCELLOR—B G MOHAMMAD

VICE-CHANCELLOR—Sardar K M PANIKKAR

TREASURER—Sirdar M A K. LODI, BA

REGISTRAR—G MOHAMMAD, MA

TEACHING STAFF

Economics		Hindi	
.. . . .	Prof	....	Prof
Bhan, J N , MA PhD	Reader	Gupta, H P , MA DPhil	Reader
Singh, I , BA Camb.	Lectr	Singhal, S B , MA PhD	Lectr
Kotwal, O P , MA	Lectr	Kaul, M , MA	Lectr
Sharma, B. D , BSc MA	Lectr		
English		Mathematics	
.	Prof	.	Prof
Pandit, S L , MA	Reader	Puri, M R , MSc DiplStats Leeds, MA	Reader
Apurab, S , MA PhD	Lectr	Mohammad, J., BSc Leeds, MA	Lectr.
Want, M S , MA PhD	Lectr.	Mohammad, Q G., MA	Lectr.
Pandit, M L , MA	Lectr	.	Lectr.
Geology		Urdu	
Wakhaloo, S. N., MSc PhD, FGS	Prof.	Zore, S M	Prof.
.. . . .	Reader	.	Reader
Bhatia, T. R., MSc	Lectr	Shakil-ur-Rahman, MA	Lectr.
Sharma, T. R., MSc	Lectr.	Ahmed, S , MA	Lectr.
	Lectr.	Kamil, A U., MA BED HPU	Lectr.

ADMINISTRATIVE AND OTHER STAFF

Dep Registrar R. K Sapru, BSc , Asst	Chowdhry, BA	Dep Librarian M. H. Razvi,
Registrar (General) G. M Mir, BA , Asst	MA DipLibSc	Dir of Phys. Educn. . G.
Registrar (Exams.) . M A. Chishti, BA , Asst	Mohammad, BA DPEd	
Registrar (Sub-Registry, Jammu): H. L		

AFFILIATED COLLEGES

[FA, BA, etc , after the name of a coll means that courses are provided there for Intermediate Arts, BA, etc]

ANANTNAG, Govt Intermediate College, Kash-	BARAMULLA, St. Joseph's Collge, Kashmir.
mir FA, FSc Principal—Saif-ud-Din, MA	FA, FSc, BA. Principal—Rev. J McMahon.
18 Teachers	14 Teachers

* Member of the Association of Universities of the British Commonwealth

BHADARWAH, *Govt. Intermediate College*, Jammu
FA, FSc Principal—B L Kaw, MSc PhD
16 Teachers

JAMMU, *Govt. College for Women* FA, FSc,
BA. Principal—Miss S Winifred Shaw, MA
21 Teachers

JAMMU, *Govt. Gandhi Memorial Arts College*
(tel. 314A) FA, BA Principal—Hassan Shah,
MA.

JAMMU, *Govt. Gandhi Memorial Science College*
(tel. 314) FSc, BSc Principal—T. Ram,
MSc. 58 Teachers

JAMMU, *Sri Pratap Memorial Rajput College of
Commerce* ICom, BCom Principal—G P
Singh, MCom 8 Teachers.

JAMMU, *Teachers' Training College*. BED
Principal—Ghanashyam, MSc 13 Teachers

POONCH, *Govt. Intermediate College*, Jammu
FA, FSc Principal— 16 Teachers.

SOPORE, *Govt. Intermediate College*, Kashmir

(tel. 12) FA, FSc Principal—A S Dhar,
MA 15 Teachers

SRINAGAR, *Amar Singh College*, Kashmir (tel.
392) FA, FSc, BA, BSc, BSc(hons.) Principal
—M Ahmed, MA 51 Teachers

SRINAGAR, *Gandhi Memorial College*, Kashmir
FA, FSc, BA, BED. Principal—G. N. Mattu,
MA MOL

SRINAGAR, *Govt. Medical College*, Kashmir
MB BS Principal—G V S Murthy, MD 11
Teachers

SRINAGAR, *Govt. Women's College*, Kashmir
(tel. 398). FA, FSc, BA. Principal—Miss
Mahmuda Ahmed Ali Shah, MA 30 Teachers

SRINAGAR, *Sri Pratap College*, Kashmir (tel.
228). FA, FSc, BA, BA(hons.), BSc. Principal—
Abdul Aziz 56 Teachers

SRINAGAR, *Teachers' Training College*, Kashmir
(tel. 386) BED. Principal—A A Ali, MA.
12 Teachers

GENERAL INFORMATION

The Univ. of Jammu and Kashmir was estab'd
in Nov. 1948. It is a teaching and examining
univ.

CONSTITUTION Senate, syndicate, academic
bd. The senate is the supreme governing body,
the syndicate is the executive body.

INCOME (1960-61) Total Rs 1,133,295
(exam fees, Rs 532,131, other fees, Rs 80,996,
other receipts, Rs 30,592, state grants, Rs.
200,000, U G C. grant, Rs 289,576)

FACULTIES AND DEANS *Arts*, S L Pandit
(Engl.), *comm*, Principal G. P Singh, *educn*,
Principal A A Ali; *med*, Principal G V S
Murthy, *oriental learning*, Principal G N. Mattu,
sci, Principal Ghanashyam, *soc. sci*, Dr J N
Bhan

LIBRARIES Univ. libr., 36,575 vols. Librs. of
affiliated colls., about 104,115 vols.

OBSERVATORY A high elevation observatory
for res. on cosmic rays has been estab'd at
Gulmarg, Kashmir, in co-operation with Aligarh
Muslim Univ.

ADMISSION The min. qualif. necessary for
admission to the univ. is the passing of the matric
exam or an exam recog. as equivalent.

It is proposed to start the 3-yr. degree course
from the academic year 1962. The qualif. neces-
sary for entry to the course will be the passing of
the higher secondary course exam. or the pre-univ.
exam.

FIRST DEGREES 4 yrs. after matric.—BA, BSc,
BCom

HIGHER DEGREES. 1 yr.—BED. 2 yrs.—MA
in econ, Engl, Hindi, maths, Urdu, MSc in
geol.

The univ. postgrad. depts. are located as
follows: English, Hindi, maths and Urdu, at
Srinagar, econ and geol., at Jammu.

CERTIFICATES Proficiency, high proficiency
and hons. in Hindi, Urdu, Panjabi, Arabic,
Sansk. and Persian, each 1 yr.

PRIVATE CANDIDATES Men, in professions such
as teaching and librarianship, and women are
allowed to appear as private candidates under
certain conditions, provided they come from the
state of Jammu and Kashmir.

STUDY LEAVE There is no regular practice
regarding study leave for members of staff.

FEES No tuition fees are charged in univ.
postgrad. depts. or in govt. affiliated colls.

ACADEMIC YEAR. Terms in univ. depts.
Srinagar: Sept 1-Dec 20; March 1-May 20;
June 1-Aug 10. Jammu: Sept 21-Dec 20,
Jan 5-March 31; April 11-July 5.

The LANGUAGE OF INSTRUCTION is Engl., ex-
cept in classical and mod. Indian lang. classes,
where the medium of instructn. is the lang. con-
cerned, or an allied lang.

PUBLICATIONS. *Handbook* (pub'd. at irregular
intervals), *Univ. Review* (2 issues p.a.).

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

	<i>Full-Time</i>	<i>Part-Time</i>
Men	5058	—
Women	1862	—
Total	6920	—

Distribution by Faculties *Arts*, 3163, *comm.*, 77, *educn*, 319, *oriental learning*, 1114, *sci*, 2247 Total 6920.

Included in the figures above are —
Intermediate students, 3771.

Postgraduate students, 242

New admissions, 2228

Students from other countries, nil

DEGREES AWARDED (1959-60) BA, 310, MA, 68, BEd, 210, BSc, 73; MSc, 25; BCom, 9.

CERTIFICATES AWARDED (1959-60) Oriental classical langs, 53, mod Indian langs, 227

KARNATAK UNIVERSITY

Founded 1949, incorporated 1950

Postal Address : Chhota-Mahabaleshwar, Dharwad, Mysore State, South India

Cables and Telegrams Unikarnatak

Telephone : Dharwad 94

CHANCELLOR—H.E. THE GOVERNOR OF MYSORE (*ex officio*)

VICE-CHANCELLOR—D. C. PAVATE, MA *Camb.*

REGISTRAR—S. S. WODEYAR, MA LLB *Bom*

DEPUTY REGISTRAR—S. B. SHAPETI, MA *Bom*

LIBRARIAN—K. S. DESHPANDE, DipLib *Bom.*, MA

UNIVERSITY DEPARTMENTS

[* = Hd of Dept]

Botany		History	
Channaveeraiah, M. S., PhD <i>Lond.</i> , DSc <i>Montr</i>	*Reader	Saletote, B. A., MA PhD <i>Lond.</i> , DPhil <i>Giessen</i>	*Prof Reader
Chemistry, Inorganic and Physical		Dixit, G. S., MA	Reader
Chandrasekharaiah, M. S., MSc PhD	*Reader	Desai, P. B., MA	Reader
Jayadevappa, E. S., MSc PhD	Reader	Kulkarni, B. S.	Reader
Math, K. S., MSc PhD	Lectr	Kannada Language and Literature	
Seeta Ram Murthy, A., MSc	Lectr.	Hirmath, R. C., MA PhD	*Prof
1 Demr, 3 Lab Assts		Sunkapui, M. S., MA PhD	Reader
Chemistry, Organic		Kulkarni, B. S., MA	Lectr.
Siddappa, S., DIC, MSc PhD	*Prof	Mathematics	
Rajagopalan, S., DSc, FRIC	Reader	Sreenivas Iyengar, C. N., DSc	*Prof
Badiger, V. V., MSc PhD	Lectr	Singh, S. K., MA PhD	Reader
Dandegaonkar, S. H., MSc PhD	Lectr.	Suryadevaru, K., MSc	Reader
1 Store-keeper, 1 Lab Asst.		Shrivakumar, P. N., MSc <i>Lond.</i>	Lectr.
Economics		Philosophy	
Nanjundappa, D. M., PhD	*Reader	Shah, K. J., MA <i>Camb.</i>	*Reader
Mensinkai, S. S., MA	Reader	Gajendragadkar, K. V., MA	Reader
Tigadi, C. B., BSc(Econ) <i>Lond</i>	Reader	Mullatti, L. C., MA	Lectr
Wali, B. M., MA	Res Asst.	Physics	
English		Tawde, N. R., MSc PhD <i>Lond</i> , FIP, FNI	*Prof
Menezes, A., MA <i>Bom</i>	*Prof.	Suryanarayan Rao, K., DSc	Reader
Naik, M. K., MA PhD	Reader	Swamy, N. V. V. J., PhD <i>Florida</i>	Reader
Rajashekharaiiah, T. R., MA	Reader	Savadatti, M. I., PhD	Lectr
Geology		Ganganna, H. V., MSc	Lectr
Sadasshiviah, M. S., DIC, MSc PhD <i>Lond</i> , FGS	*Prof	Kulkarni, R. J., MSc	Lectr
Naganna, C., MSc	(on leave) Lectr	2 Lab Assts.	
Gokhale, N. W., MSc	Lectr.	Politics	
Somasekhar, B., MSc	Lectr	Halappa, G. S., MA <i>Mys & Col</i>	*Reader
		Raghavendra Rao, K., MA	Lectr

Sanskrit	Statistics
Krishnamurthy, K., MA PhD Malleshwaru, H. P., MA	*Reader Prabhu, N. U., MA <i>Bom</i> , MSc <i>Manc</i> Lectr. Tikkiwal, B. D., MSc <i>Ray</i> , PhD <i>N Carolina</i> Reader
Social Anthropology	Bhat, B. R., MA <i>Madr</i> & <i>Karn.</i> (on leave) Lectr.
Ishwaran, K., MA PhD DLitt <i>Ley.</i> , BLitt <i>Oxon</i> , MSS <i>Inst for Soc Studies (The Hague)</i>	Kabe, D. G., MSc <i>Bom</i> & <i>Karn.</i> Lectr. Bhat, U. N., MA Lectr. Basavarajappa, K. G., MSc (on leave) Lectr 1 Lab Asst
Sociology	Zoology
Chandrashekhariah, K., MA <i>Mys.</i> , DPhil <i>Fran</i>	Joseph, K., MSc PhD
Marulasiddayya, MA	*Reader

ADMINISTRATIVE AND OTHER STAFF

Office Supt. (Admin.) B. G. Sriyannavar
Asst Registrar (Admin.) S. C. Bikkannavar, BA
LLB Asst. Registrar (Exams) Shivarish, MA
Asst Registrar (Accts) R. A. Panduranga,
BCom Dir., Extension Services. C. S. Kanavi,

MA Asst Dirs. . B. S. Gaddagmath, MA PhD;
S. B. Nank, MA Sec., Bd of Sports, Students'
Welfare S. M. Desai, BA. Asst. Secs. S. N.
Dixit, BA; F. K. Patil, BA.

CONSTITUENT COLLEGES

[BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc.]

DHARWAR, *Karnatak Arts College* (1917) (tel 18) BA, MA Principal—A. Menezes, MA
Hds of Depts ENGL—A. Menezes, MA,
FRENCH—Miss Aurora Figueredo, BA, HINDI—
R. K. Mudaliar, MA, HIST AND ECON—
KANNADA—S. S. Malwad, MA, MARATHI—P. N.
Kulkarni, MA, MATHS—, PERSIAN
AND URDU—V. Balakrishna, MA, PHILOS—
T. G. Kalghatgi, MA, SANSK AND PRAKRIT—

K. T. Panduranga, MA

DHARWAR, *Karnatak Science College* (1934)
(tel 176) BSc, MSc (in bot and zool).
Principal—G. S. Paramashivayya, MSc Col Hds
of Depts BOT—L. K. Gunjekar, MSc, CHEM.
—R. P. Dodwadmath, MSc, GEOG—M. S.
Honio, MSc, PHYS—K. S. Savanur, MSc;
ZOO—A. M. Patil, MSc PhD.

AFFILIATED COLLEGES

BAGALKOT, *Basaveshwar College* (1944) (tel. 40) BA, BSc Principal—S. C. Nandmath,
MA PhD Lond Hds of Depts. BIOL—M. S. S.
Rao, MSc, CHEM—Prof. B. H. Yelburgi, MSc,
ECON—Prof. S. N. C. Rao, MA; ENGL—Prof.
L. G. Hiremath, MA BT *Bom*, HINDI—G. M.
Umapatishastri, MA, HIST—K. V. Subbaraya,
MA, KANNADA—B. B. Hendi, MA, MATHS—
Prof. R. Gopalan, MA, PHILOS.—S. B. Mathad,
MA, PHYS—A. R. Chandrashekhar Rao, MSc,
SANSK AND PRAKRIT—Prof. S. C. Nandmath,
MA PhD Lond

BELGAUM, *K. L. Society's College of Commerce*
(1954) (tel 381) BCom Principal—D. S.
Kuitakoti, MA *Bom*

BELGAUM, *Langaray College* (1933) (tel. 27).
BA, MA, TD Principal—B. Rudrappa, MA BT.
Hds of Depts. EDUC—M. S. Uppin, BA
MED., ENGL—B. Rudrappa, MA BT, HINDI—
B. L. Kotture, MA PhD LLB; KANNADA—Prof.
V. G. Kulkarni, MA LLB; MARATHI—Prof.
K. B. Nikkumb, MA, PERSIAN AND URDU—M. A.

Topinkatti, MA, PHILOS AND LOGIC—L. V.
Rajgopal, PhD; SANSK. AND PRAKRIT—Prof. S. V.
Dixit, MA

BELGAUM, *R. L. Law College* (1939) (tel. 381).
LLB, LL.M. Principal—V. R. Bhat, MA LL.M.

BELGAUM, *R. L. Science Institute* (1958) (tel 435) BSc Principal—V. V. Jatti, MSc Hds
of Depts. BIOL—F. S. Chikkannaiah, MSc;
CHEM—V. V. Jatti, MSc; ENGL—V. D. Kul-
karni, MA, HINDI—D. D. Deo, MA; MARATHI—
Miss Vijaya R. Dhopeshwarkar, MA, MATHS—
R. V. Thakar, MSc, KANNADA—V. G. Kulkarni,
MA, PHYS.—N. C. Charantmath, MSc, soc
SCI.—R. Jayaraman, MA

BELGAUM, *R. P. D. College* (1945) (tel. 70)
BA, BSc Principal—B. T. Bhalerao, MA
Hds of Depts BIOL—U. K. Kulkarni, MSc,
CHEM—K. D. Phadnis, MSc; ECON—B. T.
Bhalerao, MA; ENGL—M. S. Iyengar, MA;
FRENCH—V. V. Vaidya, MA; GEOG.—V. R.
Phadnis, MSc; HINDI—N. K. Chitale, MA,
KANNADA—K. G. Kundangar, MA; MARATHI—

H. S. Shinolikar, MA, MATHS—G. N. Chapekar, MA; PHILOS.—A. D. Mendonca, PhD, PHYS—A. S. Deshpande, MSc, SANSK AND PRAKRIT—D. R. Page, MA

BELGAUM, *S T College* (1939) (tel. 197) BEd Principal—C S Bennur, BA MED DPED

BIDAR, *B V Bhoomanadda College* (1960) Principal—B T Sasnur, MA

BIJAPUR, *Vijay College* (1945) (tel. 68) BA, BSc Principal—B S Ganachari, MA BT Bom Hds of Depts BOT—B C Hoskeri, MSc; CHEM—P S Shastri, MSc, ECON—C S Kishnamoorthy, MA, ENGL—B S Ganachari, MA BT, HINDI—S S Kabbim, MA, HIST—S H Rao, MA; KANNADA—H. T. Sasnur, MA BT PhD Bom; MARATHI—G M Kulkarni, MA; MATHS—P K. Hakkaladdi, MSc; PERSIAN AND URDU—M A. Bhandari, MA; PHILOS—T. Reuben, MA; PHYS—I. R. Patil, MSc, PRAKRIT—S R Bhide, MA; SANSK—V. H. Barikeri, MA, SOCIOLOG—C V Mulugund, MA, ZOOL—Mrs Sarojini T. Reuben, MSc

DEHARWAR, *College of Agriculture* (1947) (tel. 73) MSc(Agr) Principal—Prof S W Mensinkai, DIC, MSc PhD Lond, DipAgric R'dg Profs AGRIC BOT—S W Mensinkai, DIC, MSc PhD Lond, DipAgric R'dg AGRIC CHEM—B Bhumschnao, BSc, AGRIC ECON—AGRIC. ENGIN, MATHS AND PHYS—R F Patil, BE (Civil) Bom, AGRIC ENTOMOL—H L Kulkarni, MSc(Agr), AGRON—S V Patil, MA, Ag Sci Q'ld, ANIMAL HUSB. AND DAIRYING—B. H. Sindagi, BA, HORTIC—S D. Kololi, MS Calif, MSc (Agr); PLANT PATHOL. AND BACTERIOL—R S Deshpande, DIC, BSc PhD Lond, VET SCI—K L Shugnaan

DEHARWAR, *Janata Shikshana Samiti's Law College* (1955) (tel. 68) LLB Principal—N R Kulkarni, MA LLB Prof. K R. Apte, BA LLB

DEHARWAR, *Janata Shikshana Samiti's Science and Banashankari Arts College* (1944) (tel. 68). BA, BSc. Principal—R Y Dharwadkar, MA Hds of Depts BIOL—V N. Kalghatgi, MSc, CHEM—V G. Kulkarni, MSc PhD, ECON—B. D. Kale, MA, ENGL—G A Kulkarni, MA, GEOG.—H D. Lele, MA BT, HINDI—B R Phadnis, BA, KANNADA—R Y Dharwadkar, MA, LOGIC AND PHILOS.—C S Kulkarni, MA, MATHS—R G Kulkarni, MSc; PERSIAN AND URDU—. . .; PHYS—N V. Gejji, MSc, SANSK AND ARDHAMAGADHI—H. R. Naware, MA

GADAG, *Institute of Pre-University Course* (1957). Pre-Univ Supt.—M R Gajendragad, MSc.

GADAG, *K L E Society's Jagadguru Tontadarya College* (1958) (tel. 15) Pt. I BSc, Pt. I BA Principal—M. S. Hallur, MA

GULBARGA, *Engineering College* (1958) (tel. 172) 2nd-yr. engin Principal—K B Krishna Rau, BA BE, MIB(India).

GULBARGA, *Gout Arts & Science College* (1932) (tel. 64) BA, BSc Principal—D J Davar, MSc PhD

GULBARGA, *Gout BEd College* (1955) (tel. 128) BEd. Principal—K Ramachandra, MA MED

GULBARGA, *Shaan Basaveshwar College* (1958) (tel. 46) Pte-Univ. (in Sci), Pte-Professional in Engin and Med, Pt II BA Principal—S. T. Kallapur, MA

GULBARGA, *S S L Law College* (1960) LLB Principal—B R. Deshpande, BA LLB

HUBLI, *B V B College of Engineering and Technology* (1948) (tel. Hubli 76) BE (Civil), Dipl in Civil, Mech & Electr Engin Principal—A S Menon, BSc(Engg) Ban, MIE(India) Hds of Depts APPL MECHS—S S Shivashwami, BE(Civ), CIVIL ENGIN—R Srinivasan, BE, ELECTR ENGIN—A S Menon, BSc MIE (India), GEOL AND CHEM—Y B Deshpande, MSc, MATHS—V M Sakhare, MA Camb; MECH ENGIN—B. R. Sali, BE(Mech) Bom

HUBLI, *J G College of Commerce* (1947) (tel. Hubli 114) BCom Principal—C C Pattanshetty, MA PhD Hds of Depts : ACCTY AND AUDITING—C A Aralimatti, BA, BANKING AND ECON—C C Pattanshetty, MA PhD, COMM—J K. Irani, MCom, ENGL—A V Shastri, MA, GEN SCI—G S Mallapur, MSc, KANNADA—C S Hugarti, MA, MERC. LAW—S A Shurur, BA LLB, MARATHI AND HINDI—Miss S K Tinaikar, STATS—G. Bhasker Rao, MA MSc

HUBLI, *Kadanddeshwar Arts College* (1952) (tel. Hubli 97) BA. Principal—D S Karku, MA PhD Hds of Depts ARDHAMAGADHI AND MARATHI—L. A. Fernandes, MA, ECON—H R Sakhare, MA; ENGL—G V. Nadgouda, MA; GEOG—Miss S Indira Devi, MA, KANNADA—D S Karku, MA PhD, LOGIC AND PSYCHOL—S L Bhyarappa, MA, PERSIAN AND URDU—A Pyare, MA, SANSK—S B Topkane, MA.

HUBLI, *Karnatak Medical College* (1957) (tel. 99). MB BS Principal—V. G. Kale, MB MS Bom Hds of Depts ANAT—V G Kale, MB MS Bom, PHARMACOL.—S W Haidikar, MD, MRCPED, PHYSIOL.—J. S. Sakseena, BSc MB BS MD(Physiol) Luck; BIOCHEM—T C Appanna, MSc PhD, PATHOL.—M. R. Parthasarathy, MB MS, FACP, MED UNIT—K. S. Shadaksharappa, DSc MB BS Mys, MS; SURG. UNIT—K. Krishnamurthy, MB BS Mys., MS(Surg) Lowman, FRCS(Ed), SOC. AND PREV MED—S V. Rama Rao, MB BS DPH, GYNACOL. AND OBSTET.—..

HUBLI, *P C Jabin's Science College* (1957) (tel. 285) Pt I BSc Principal—S S Bommannavar, MSc Ban

KUMTA, *Kanara College* (1949) (tel. 26) BA, BSc Principal—L. S. Kamat, MA Hds of Depts : BIOL—Miss Gijya R Sabnis, MSc, CHEM—Prof. V. N. Shetgeri, MSc, ECON.—Prof N R Rao, MA; ENGL.—B. S. Shanbhag,

MA; HINDI—V R Pungawkar, MA LLB; KANNADA—K G Shastri, MA, LOGIC AND PSYCHOL—N A Hanumanthrao, MA, MATHS—L S Kamat, MA, PHYS—R A Kaulgud, BSc, SANSK—B H Shreedhara, MA

MANGALORE, *Kasturba Medical College, Clin. Section* (1955) (telegrams 'Keymsee', tel 452) Principal—G D Velath, MD DTM Col Hds of Depts: FORENSIC MED—K C Jacob, BA MD, MED AND ANCILLARY—M V Chari, MB BS DTM&H, MRCP, OBSTET AND GYNÆCOL—Mrs Bhagyamma Puiushotham, MB, FRFPGS, PATHOL AND BACTERIOL—G D Velath, MD DTM Col, PHARMACOL—C H Sivaraman, MB BS DTM&H, MRCP, SOC AND PREV MED—R Blaskar Rao, MB BS BSSc, SURG—M P Pai, MS, FRCS, FACS

MANGALORE, *Engineering College* (1957) (tel: 38

Udipi) BE(Civil) Principal—M N Kamath, BE(CE), MIE(India)

MANIPAL, *Kasturba Medical College Pre-Clin. Section* (1953) (tel 32) 1st MB BS Dean—R P Koppikar, MS, Hds of Depts. ANAT—R P Koppikar, MS; PHYSIOL—A Krishnarao, MB BS MSc, PREV. MED—E Anantha Rao, BSc MB BS DPH

RAICHUR, *L V D. College* (1954) (tel. 156). BA, BSc. Principal—R B. Magal, MA.

UDUPI, *Law College* (1957) (tel 73). LLB. Principal—B L N Rai, BA ML

YADGIRI, *Shankar College* (1953) (tel 60). Principal—B M Ramalingayya, MA Bom. & Madr, BT.

INSTITUTION MANAGED BY THE UNIVERSITY

DHARWAR, *Kannada Research Institute* (1939) D11—B A Saletore, MA PhD Lond, DPhil Gassen. KANNADA—B S. Kulkarni, MA, Reader;

ANC INDIAN HIST AND CULTURE—P B Dossai, MA Bom, Reader, SOCIOL—K Chandrasekariah, MA PhD

GENERAL INFORMATION

Karnatak Univ is one of the regional univs which came into existence with the splitting up of Bombay Univ. In response to an insistent demand from the Kannadigas for a separate univ for Karnataka, the govt of Bombay appointed the Karnataka Univ Cttee in April 1947, under the chairmanship of Mr. Justice N S Lokur. The Karnataka Univ. bill, based on this cttee's report, was passed by the Bombay legislature in April 1949. In June 1949 R A Jahagirdar was apptd by the govt of Bombay as first vice-chancellor of the univ and on March 1, 1950, Karnataka Univ. was brought into existence as a corporate body. At present its jurisdiction extends over the districts of Dharwar, Belgaum, Byspur, North Kanara, Raichur, Gulbarga and Bidar. The univ. is situated on a 283-acre site, given by the govt. of Bombay. The univ is both an affiliating and teaching univ. It aims to develop into a residential univ with emphasis on postgrad instrcn, affiliation being one of its subord functions. The univ also runs two colls in Dharwar, one in arts and one in sci. (see above, under 'Constituent Colls'). These two colls, which were formerly run by govt., were transferred in 1958 to the management of the univ. The Kannada Res Inst., formerly attached to the colls, has been maintained as a separate inst since they were transferred to management of the univ.

CONSTITUTION The senate is the supreme governing body of the univ. The executive powers are vested in the syndicate. The other authorities are the academic council, the facs., the

bds. of univ teaching and the bds of studies in the various facs.

INCOME (1959-60) Rs 2,870,517

FACULTIES AND DEANS *Agric*, Principal S W Mensinkai, *arts*, Principal D S Karku, *engin*, Principal M N Kamath, *law*, Prof. V A. Mujumdar, *med*, Dr P G Gollarkeri, *sci*, Principal V V Jatti, *soc. sci*, Dr C. C. Pattanshetti

UNIVERSITY PRECINCT The univ campus, now about 350 acres in area, is situated on a high hill-top known as 'Chhotu-Mahabaleshwar', about 2 miles S.E. of Dharwar city. A small township is growing up on the campus, the more important univ bldgs being the educn. bldg., admin bldg., residential bungalows of sr staff members, quarters for admin, teaching and menial staff, boys' hostel for 300 students, health centre, fac club, central workshop, recreation/auditorium bldg., canteen, swimming-pool, etc. The fac. club, situated at the highest point, commands a view of the entire campus.

LIBRARY Univ libr., about 50,000 vols

ADMISSION The min. qualif for admission to pre-univ. courses in arts, sci. and comm. is the SSC exam of the SSC. exam bd., Mysore State (if passed in prescribed subjs with 35 per cent. marks in each subj.), or any other exam. recog. as equivalent by the univ.

The univ. does not permit any students to pursue a prescribed course privately and take any exam. without attending a coll

FIRST DEGREES. BA, BSc, BCom, 3 yrs. after pre-univ. exam BE (civil, mech and electr), 4 yrs after BSc pt I exam or pre-engin exam BSc(Agric), 4 yrs after pre-univ sci exam LLB, 3 yrs. after pt I exam, 2 yrs after graduation in arts or comm or sci MB BS, 4½ yrs after BSc pt I exam with med group or pre-med exam

HIGHER DEGREES. 1 yr —BEd, 2 yrs —LLB (see also 'First Degrees'), 2 yrs.—MA (econ., hist, sociol, pol, philos, soc anthropol, Engl, Sansk, Kannada, stats, Marathi, maths), MSc (chem, phys, geol, zool, bot, maths, stats), MEd, MSc(Agric), LLM, MCom Also PhD (chem, phys, geol, zool, bot., linguistics, econ, sociol, soc anthropol., pol, Engl, philos, hist, Kannada), DLitt (for public work), DSc PhD and DLitt also awarded as honorary degrees.

DIPLOMAS Teaching (TD), 1 yr

RESEARCH. Facilities in following subs. provided for MA and PhD Engl, Kannada, Sansk, hist, archaeol, epigraphy, anthropol, econ., pol, sociol, philos., phys, chem, geol., bot, zool, maths and stats

STUDY LEAVE The univ grants study leave to its employees to enable them to undertake higher studies or specialized trg. in professl or tech subs. having a direct or close connection with the sphere of their duties. Ordinarily, the period of such leave does not extend to more than 12 mos in the service of an employee Study leave not debited against leave account.

FEES (annual) Rs. 223 for mstr's degree course in arts, Rs 223 for PhD in arts, Rs. 253 for master's degree in sci., Rs. 263 for PhD in sci., addtl (refundable) fee of Rs. 30 towards lab. deposit payable by sci and stats students

ACADEMIC YEAR June to March 2 terms Term dates (approx.). June 15 to Oct 15, Nov 9 to March 12

USUAL LANGUAGE OF INSTRUCTION at present is English

UNIVERSITY EXTENSION 7 lecture camps organized at different mofussil (rural) places (only in centres with no instns. of higher educn.), univ teachers and other persons deliver lectures on a variety of topics.

PRINCIPAL 'OPEN' POSTGRADUATE AWARDS One studentship of Rs. 50 p m, tenable for 2 yrs, is given for every 20 students in each of the subs at MA, MSc, MSc(Agric), MEd, LLM and MCom 4 govt. fellowships, each of Rs. 60 p m., tenable for 2 yrs, are available for students admitted for postgrad courses. 5 univ. res scholps, each of Rs. 125 p m. for 2 yrs, are available for students working for PhD and DLitt These awards are all open to grads of any recog univ.

STUDENT RESIDENCES. Karnatak Univ Boys' Hostel, Chhota-Mahabaleshwar, Dharwar, Mysore State Accom for 150 students, intended mainly for postgrads. Fees, Rs 25 deposit (refundable) plus Rs 80 for single room, and Rs 60 for double room, per term.

STAFF RESIDENCES controlled by univ vice-chancellor's lodge, registrar's residence, dep registrar's residence, 23 postgrad. teachers' residential quarters, 12 jr quarters, 24 quarters for peons on staff of univ

PUBLICATIONS *Bulletin*, Vol. I, No 1 (free); annual reports (free); *Handbook*, Part I (annual, Rs 0 50 n p), Part II (Rs 10), Part IV (Rs 0 50 n p), Kannada extension lecture booklets (Rs 0 25 n p each); *Univ. Journal*, mainly intended to promote res work by teachers and students of the univ, issued in Nov (sci.) and June (humanities) (each Rs 2 50) *Internat Journal of Compar Sociol*, publ in March and Sept (annual sub, Rs 40 or \$8) Also text-books and other scholarly publications

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	12,276	—
Women	1,089	—
Total	13,365	—

Distribution by Faculties Agric., 418; arts, 4061; engin, 1194, law, 599; med., 1299; sci, 4503; soc sci, 1291

Included in the figures above are —

Pte-University students, 3248
Postgraduate students, 803
New admissions (to 3-yr. degree course), 2840
Students from other countries, nil

DEGREES AWARDED (1960) Agric BSc, 53, MSc, 10 Arts BA, 544, MA, 46. Engin (Civil) BE, 70 Law LLB, 134 Med MB BS, 99 Sci BSc, 268, MSc, 50. Soc scis BEd, 63; MEd, 10, BCom, 125. PhD (all facs) 4 Total number of first degrees awarded, 1293

DIPLOMAS AWARDED (1960) BT, 1, TD, 16

UNIVERSITY OF KERALA*

Founded 1937

Postal Address : University Buildings, Trivandrum, Kerala State, South India

Cables and Telegrams : University, Trivandrum

Telephone Trivandrum 3112

CHANCELLOR—THE GOVERNOR OF KERALA (*ex officio*)

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION OF KERALA (*ex officio*)

VICE-CHANCELLOR—K. C. K. E. RAJA, DTM&H

REGISTRAR—A. M. N. CHAKIAR, BA

DEANS OF FACULTIES—AGRICULTURE—Principal L. S. S. KUMAR, DIC, MSc Lond, ARTS—Principal P. C. JOSEPH, MA, AYURVEDA—Principal K. K. NAMBIAR, COMMERCE—Principal V. R. PILLAI, MA MSc, EDUCATION—Professor N. P. PILLAI, PhD Birm, MA LT, ENGINEERING—Principal K. C. CHACKO, MA BE Madr, MS Note Dame, FINE ARTS—M. K. GOVINDA PILLAI, BA BL, LAW—V. N. SUBRAMONIA IYER, MA ML, MEDICINE—C. O. KARUNAKARAN, MB BS Madr, DTM&H DPH Camb, DipBact Lond, ORIENTAL STUDIES—A. G. KRISHNA WARRIER, MA PhD, SCIENCE—Professor A. ABRAHAM, MA MSc PhD (Bot); VETERINARY SCIENCE—M. N. MENON, BVSc, FRCVS

TEACHING STAFF

(Hds. of univ. teaching depts. and research)

Applied Chemistry		Marine Biology and Fisheries	
Pillai, P. P., DSc, FRIC	Prof.	John, C. C., DIC, MA DSc	Prof.
Botany		Politics	
Abraham, A., MA MSc PhD	Prof.	Sukumaran Nair, V. K., MA PhD	Reader
Economics		Psychology	
Pillai, V. R., MA MSc	Prof.	George, E. I., MA PhD	Reader
Education		Statistics	
Pillai, N. P., PhD Birm, MA LT	Prof.	George, Miss Aleyamma, DSc	Prof.
Islamic History and Culture		Tamil	
	Reader	Subramoniam, V. I., MA	Prof.

ADMINISTRATIVE AND OTHER STAFF

Vice-Chairman, Council of Res. : C. C. John, MLatt. Supt, Dept. of Publics. : K. M. DICK, MA DSc Dir. of Phys. Educn. : V. G. Mathew, BA LT Librarian : K. A. Isaac, BSc Abraham, BA. Officer-in-charge, Univ. Employment Bureau : K. S. Lakshmana Panikkar, MA MLibSc Curator, MSS Library : K. Raghavan Pillai, MA PhD

AFFILIATED COLLEGES

[Pre-Univ, etc, after the name of a coll. means that courses are provided there for Pre-Univ, etc.]

Arts and Science Colleges

FIRST GRADE COLLEGES

ALLEPPEY, *Sanatana Dharma College* (tel. phys, chem, bot, zool. and comm. Principal—550) Pre-Univ. Pass courses in econ, maths., V. Ramanathan, MA LT. 53 other Teachers.

* Member of the Association of Universities of the British Commonwealth

ALLEPPEY, *St Joseph's College for Women* (tel. : 622) Pre-Univ Pass courses in hist., econ., maths, chem, bot, zool. and home sci Principal—Mother Olive Rodrigues, BA TD 27 other Teachers

ALWAYE, *Umon Christian College* (tel. : 94). Pre-Univ Pass courses in philos, econ, maths, phys, chem and bot, postgrad course in phys., pre-professional courses in med, dent surg, Ayurveda, agric and vet sci. Principal—T B Thomas, MSc 49 other Teachers

CALICUT, *Guruvayurappan College* (tel 3616) Pre-Univ Pass courses in econ, maths, phys, chem, bot, zool and comm, postgrad course in econ. Principal—N T. Madhavan Nambiar, MA 41 other Teachers

CALICUT, *Malabar Christian College* (tel 2679) Pre-Univ. Pass courses in econ., maths., phys., chem and zool Principal—V. G M Pavamani, MA LT PhD 35 other Teachers

CALICUT, *Providence Women's College* (tel 3666) Pre-Univ Pass courses in econ, chem and zool Principal—Rev Mother M Benedicta, MA 19 other Teachers

CANNANORE, *Stee Nayana College* (tel 385) Pre-Univ Pass courses in econ, maths, phys, bot, zool and comm Principal—R Madhava Row, MSc 24 other Teachers.

CHANGANACHERRY, *Assumption College* (tel 109) Pre-Univ Pass courses in econ, phys, chem, bot, zool and home sci Principal—Sister Mary Xavier, BA 36 other Teachers

CHANGANACHERRY, *N S S Hindu College* (tel. 90) Pre-Univ Pass courses in Engl, philos, hist, pol, maths, phys, chem, zool, Malayalam, Hindi and comm, postgrad course in comm, dipl course in soc service Principal—G Balakrishna Pillai, MA BL 56 other Teachers

CHANGANACHERRY, *St Berchmans' College* (tel. 25) Pre-Univ Pass courses in econ, maths., phys, chem., bot., zool. and Malayalam, postgrad courses in econ, phys, bot and Malayalam; pre-professional courses in med, dent surg, Ayurveda, agric and vet sci Principal—Rev Fr. F. Kalacherry, BSc 63 other Teachers

CHITTUR, *Gout. College* Pre-Univ Pass courses in philos, econ, music, maths, phys, chem, bot, zool, Malayalam, Tamil and comm. Principal—K Madhava Menon, MA 55 other Teachers

DEVAGIRI, *St Joseph's College* (tel 909). Pre-Univ Pass courses in econ., maths, phys., chem. and zool, postgrad courses in Engl and maths. Principal—Rev P Theodosius, MA PhD. 45 other Teachers

ERNAKULAM, *Maharaja's College* (tel 104). Pre-Univ. Pass courses in hist, econ., maths, phys., chem, bot, zool, Malayalam, Sansk. and Hindi, postgrad. courses in Engl., hist, econ., maths, phys., appl chem., chem., bot, zool., Malayalam and Hindi; pre-professional courses

in med, dent surg, Ayurveda, agric and vet sci. Principal—T M Menon, MSc 106 other Teachers

ERNAKULAM, *St Albert's College* (tel 182) Pre-Univ Pass courses in econ, maths, phys, chem, bot and zool. Principal—Rev Fr X Kaniampurath, MA 35 other Teachers

ERNAKULAM, *St Teresa's College* (tel 197) Pre-Univ Pass courses in Engl, econ, maths, phys, bot, zool and home sci; dipl course in soc service. Principal—Sister M Digna, BA 38 other Teachers

PEROKE, *Farook College* (tel 3693) Pre-Univ Pass courses in econ, maths, phys, chem., zool, Arabic and comm, postgrad course in maths Principal—K A Jaleel, MA 44 other Teachers

GURUVAYOOR, *Little Flower College* (tel. 57) Pre-Univ Pass courses in econ., maths, zool and Malayalam Principal—Sister Mary Victoria, BA LT. 22 other Teachers

IRINJALAKUDA, *Christ College* (tel. 58). Pre-Univ. Pass courses in econ, phys, chem., zool and comm, postgrad courses in zool and comm Principal—Rev Fr A Gabriel, MA 37 other Teachers

KALADY, *Stee Sankara College* (tel 41). Pre-Univ Pass courses in econ, maths, phys, chem, zool, Sansk. and comm, postgrad course in Sansk Principal—C V Sthunathan, BSc 32 other Teachers

KASARAGOD, *Gout College* Pre-Univ Pass courses in Engl, hist, econ and maths Principal—K R Ramakrishnan, MA LT 15 other Teachers

KOTHAMANGALAM, *Mar Athanasius College* (tel. 26) Pre-Univ Pass courses in econ, maths, phys, chem and zool Principal—Rev Fr V M Geevarghese, MA 27 other Teachers

KOTTAYAM, *Bishop Chulaparambi Memorial College* (tel 2171) Pre-Univ Pass courses in hist, econ., maths, phys, chem, bot and zool; dipl course in soc service Principal—Margaret Paulose, BA LT 39 other Teachers

KOTTAYAM, *C M S College* (tel. 471) Pre-Univ Pass courses in Engl, hist, maths, phys, chem., zool, home sci and comm; postgrad course in Engl, maths. and chem Principal—P C Joseph, MA 51 other Teachers

KOZHENCHERRY, *St Thomas College*. Pre-Univ. Pass courses in econ, maths, phys., chem., bot and zool. Principal—A J Cherian, MA. 42 other Teachers

MADAPPALLI, *Gout. College* Pre-Univ. Pass courses in hist, and maths Principal—C M S. Mohideen Sha, MA LT 17 other Teachers

MUVATTUPUZHA, *Nirmala College* (tel 61) Pre-Univ Pass courses in econ, maths., phys., chem, bot and comm. Principal—Rev Fr. T. Nedumkallil, MA BT 40 other Teachers

PALAI, *St. Thomas College* (tel. 17) Pre-Univ Pass courses in econ, pol., Engl, maths., phys, chem, bot., zool., Malayalam and comm., postgrad courses in pol, bot., stats and Hindi Principal—Rev Fr J Kureethadam, MA 64 other Teachers

PALGHAT, *Govt Victoria College* (tel. 173). Pre-Univ Pass courses in Engl, philos, hist, econ, maths, phys, chem, bot., zool., Malayalam, Hindi and comm., postgrad. courses in Engl, appl. phys, zool. and statistics, pre-professional courses in med, dent surg, Ayurveda, agric and vet. sci Principal—V P Kannan Nair, MA LT 105 other Teachers

PANDALAM, *N S S. College* (tel. 1) Pre-Univ Pass courses in Engl, econ, maths, phys, chem, bot., zool., Malayalam, Hindi and comm Principal—K C Nambiar, BA Oxon., MA 55 other Teachers

PATHANAMTHITTA, *Catholicate College* Pre-Univ Pass courses in econ, maths., phys., chem, bot and Malayalam Principal—A Narayanan Potti, MA PhD 28 other Teachers

QUILON, *Fatima Mata National College* (tel. 2284) Pre-Univ Pass courses in econ., maths., phys, chem, bot, zool and comm, postgrad courses in bot and comm Principal—Rev Fr. C M George, MA 55 other Teachers

QUILON, *Sree Narayana College* (tel. 459) Pre-Univ Pass courses in Engl, econ, pol, maths., phys, chem, bot., zool., Malayalam, Hindi and comm., postgrad courses in Engl, pol, econ and chem. Principal—M Sreenivasan, MA PhD 80 other Teachers.

QUILON, *Sree Narayana College for Women* (tel. 2269) Pre-Univ. Pass courses in econ, maths, phys., chem, bot, zool, home sci and Malayalam Principal—E K Santha, MA LT. 36 other Teachers

TELLICHERRY, *Govt. Brennen College* (tel. 27). Pre-Univ Pass courses in Engl, hist, econ., maths., phys, chem, bot, zool. and Malayalam, postgrad. course in hist Principal—E. R Warrior, MA BT. 52 other Teachers

THEVARA, *Sacred Heart College* (tel. 171). Pre-Univ Pass courses in econ, maths., phys., chem, bot, zool, Malayalam and comm., postgrad courses in econ, soc work, zool and comm; dipl course in soc service Principal—Rev Fr Theobald, MSc PhD 65 other Teachers

TIRUVALLA, *Mar Thoma College* (tel. 42) Pre-Univ Pass courses in Engl, philos., econ.,

maths, phys, chem and bot Principal—M V John, MA 49 other Teachers

TRICHUR, *St Mary's College* (tel. 770) Pre-Univ Pass courses in econ, maths, phys, chem, bot and zool, postgrad courses in Engl. and econ, dipl course in soc service. Principal—Sister Annunciate, BSc 37 other Teachers.

TRICHUR, *St Thomas College* (tel. 152) Pre-Univ Pass courses in econ, maths, phys, chem, bot., zool., stats. and comm., postgrad. courses in phys. and chem Principal—Rev Fr I Mampilly, MA. 55 other Teachers.

TRICHUR, *Sree Kerala Varma College* (tel. 176). Pre-Univ. Pass courses in Engl, econ., maths, phys., chem, bot, zool., Malayalam, Hindi and comm Principal—.... 57 other Teachers.

TRIVANDRUM, *H.H. The Maharaja's College for Women* (tel. 2986). Pre-Univ Pass courses in philos., hist, econ., music, maths., phys, chem, bot, zool and home sci. Principal—Mary Poonen, BA BSc Lond 73 other Teachers

TRIVANDRUM, *H H The Maharaja's Sanskrit College* (tel. 3312). Pre-Univ. (Sansk.), BA (Sansk.) and postgrad. course in Nyaya and Vedanta. Principal—P. K. Narayana Pillai, MA PhD. 24 other Teachers.

TRIVANDRUM, *H H. The Maharaja's University College* (tel. 2030) Pass courses in Engl, philos., hist., econ, pol, maths, phys., chem, bot, zool., geol, Sansk, Malayalam, Hindi, Tamil, postgrad courses in Engl., philos., hist., econ., maths., phys, chem, bot, zool., Sansk., Malayalam and Hindi. Principal—V. R. Pillai, MA MSc. 125 other Teachers.

TRIVANDRUM, *Mahatma Gandhi College* (tel. 2139). Pre-Univ Pass courses in Engl, hist., econ, maths, phys, chem, bot, zool., Malayalam, Hindi and comm Principal—M P Manmathan, MA 54 other Teachers

TRIVANDRUM, *Mar Iamos College* (tel. 2153) Pre-Univ Pass courses in Engl, econ, maths, phys, chem, bot, zool, Malayalam and comm, postgrad courses in zool and comm, dipl course in soc service, pre-professional course in med Principal—Rev Dr G Panicker, MA PhD 63 other Teachers

TRIVANDRUM, *N.S.S. College for Women* (tel. 2173). Pre-Univ. Pass courses in hist, econ., bot and home sci. Principal—C Saradamma, MA LT. 23 other Teachers.

SECOND GRADE COLLEGES

PALGHAT, *N S S College* Pre-Univ Principal—V Sankarankutty Menon, MA 11 other Teachers

TRIVANDRUM, *Intermediate College* (tel. 2040) Pre-Univ., pre-professional courses in med., dent, surg, Ayurveda, agric and vet sci. Principal—N. Krishna Pillai, BA. 29 other Teachers

Professional Colleges

CALICUT, *Govt Training College* BED Principal—K I Varghese, MA MSc LT. 11 other Teachers

CALICUT, *Medical College* (tel. 3811) MB BS Principal—R Ananthanarayanan, BA MB BS DB PhD 44 other Teachers

CHANGANACHERRY, *N.S.S. Training College* (tel. 8). BED. Principal—M Gopalan Nair, MA LT. 6 other Teachers.

ERNAKULAM, *H. H. The Maharaja's Law College* (tel. 20) BL, ML Principal—R. Sankaradasan Thampi, BSc ML 5 other Teachers

ERNAKULAM, *St Joseph's Training College for Women* (tel. 651). BED Principal—Lilly Kurien, MA BT 7 other Teachers

PEROKE, *Farook Training College* BED Principal—T K Subramoniam, BA LT 6 other Teachers

KOTTAYAM, *Mount Carmel Training College* (tel. 2020). BED Principal—Sister M Crucifix, BA LT MED 7 other Teachers.

MANNANAM, *St. Joseph's Training College* (tel. 696). BED Principal—Rev Fr Papias, MA BT 4 other Teachers

MAVELIKARA, *Peet Memorial Training College* BED Principal—A Chennan, MA TD 6 other Teachers

MOOTHAKUNNAM, *S N M Training College* BED Principal—K Rama Varma Raja, BA BT MED. 4 other Teachers

NEDUNGANDA, *Sree Narayana Training College*. BED. Principal—K P. Govindan, MA BT. 6 other Teachers.

OTTAPPALAM, *N S S. Training College*. BED Principal—C Krishna Das, MA LT 5 other Teachers.

PALAI, *St. Thomas Training College* BED. Vice-Principal-in-Charge—Rev Fr T T Joseph, MA BT. 4 other Teachers

PALGHAT, *N S S College of Engineering* BSc (Eng) in civil, mech. and electr engin Principal—V. Sivasankaran Nair, BA BSc(Engg) 16 other Teachers

PANDALAM, *N S S Training College*. BED Principal—T. Gopala Pillai, MA LT. 5 other Teachers.

PATHANAPURAM, *Mt. Tabor Training College* BED. Principal—V. Murthy, BSc BT MED. 6 other Teachers

QUILON, *Karnela Ram Training College* BED. Principal—P. S Abraham, BA MED Leeds 6 other Teachers

QUILON, *Thangal Kuvu Musahar College of Engineering* (tel. 2004) BSc(Eng) in civil, mech and electr engin Principal—S Padmanabha Iyes, BA BE 32 other Teachers

TELLICHERRY, *Govt. Training College* (tel. 227) BED Principal—K Raghavan, BA LT 8 other Teachers

TIRUVALLA, *Titus II Teachers' College*. BED. Principal—Rev. T C. Thomas, MA LT BD. 5 other Teachers.

TRICHUR, *Engineering College* (tel. 502). BSc (Eng) in civil, mech and electr engin Principal—P C Eapen, BSc(Engg) 21 other Teachers

TRICHUR, *Govt Training College* (tel. 490) BED Principal—T P Varghese, BA MED DipEd Leeds 9 other Teachers

TRICHUR, *Veterinary College* (tel. 423) BVSc Principal—C T. Peter, BVSc MSc PhD 34 other Teachers

TRIVANDRUM, *Ayurveda College* (tel. 2251) Degree (BAM) and dipl (DAM) in Ayurveda Principal—K K Nambiar 35 other Teachers

TRIVANDRUM, *College of Engineering* (tel. 2010) BSc(Eng) in civil, mech and electr. engin., postgrad. course in engin. (electr machine des, hydraulics, irrigation and flood control and struct engin) Principal—K C Chacko, MA BE Madr, MS Notre Dame 69 other Teachers

TRIVANDRUM, *H H The Maharaja's Training College* (tel. 2964). BED. Principal—K. M. Mani, BA LT. 13 other Teachers

TRIVANDRUM, *Law College* (tel. 3326) BL. Principal—M George, BA ML 4 other Teachers

TRIVANDRUM, *Mar Theophilus Training College*. BED Principal—Rev Fr J Mathew, MSc MED 7 other Teachers

TRIVANDRUM, *Medical College* (tel. 2729) MB BS, postgrad degree courses in MD (gen med), MD (obstet & gynocol) and MS (gen surg), postgrad dipl courses in obstet & gynocol and clin pathol Principal—M. Thanagavelu, MD. 113 other Teachers.

VELLAYANI, *Agricultural College* (tel. 3021). BSc(Agr), MSc(Agr). Principal—L S S. Kumar, DIC, MSc Lond. 32 other Teachers

Oriental Title Institutions

AREACODE, *Sullamussalam Arabic College*. Course for Afzal-ul-ulama Principal—M Sheik Mohammed Sahib. 6 other Teachers

PEROKE, *Mudeenathul Uloom Arabic College*. Course for Afzal-ul-ulama. Principal—M. C. C. Abdurahman Moulavi 5 other Teachers.

FEROKE, *Rouzathul Uloom Arabic College*. Course for Afzal-ul-ulama. Principal—Abusabah Ahmed Ali, MA. 6 other Teachers.

KANJIRAPALLY, *Nurul Huda Arabic College*. Course for Afzal-ul-ulama. Principal—C. H. Mohamed Kunhi. 3 other Teachers.

PATTAMBI, *Govt. Sanskrit College*. Courses for Vidvan (Sansk.) and Vidvan (Malayalam). Principal—P. V. Rama Iyer, Siromani 5 other Teachers.

PAVARATTY, *Sahitya Deepika Sanskrit College*. Courses for Vidvan (Sansk.) and Vidvan (Malayalam). Principal—F. K. Francis, Siromani. 6 other Teachers

PERDALA, *Mahayana Sanskrit College*. Courses for Vidvan (Sansk.) and Vidvan (Kannada). Principal—K. S. Bhat, MA. 4 other Teachers

GENERAL INFORMATION

The Univ. of Travancore, now reconstituted as the Univ. of Kerala, was established under an act promulgated by H H the Maharaja of Travancore on Nov. 1, 1937. The chief aims of the univ. were stated as being to effect a reorganization of the system of educn in the state with a view to the gradual devel of technical and technol educn., to make greater and more systematic provision for furtherance of original res in the various branches of appl sci., and to provide for conservation and promotion of Kerala art and culture.

With the reorganization of states and the formation of the new state of Kerala, it was found necessary to reconstitute the univ into a teaching and federal univ for the whole of the state of Kerala in order to enable it to provide for the conservation, promotion and development of Kerala art and culture and the Malayalam lang. and for the gradual change of the medium of instructn into Malayalam in all educnl instns of the state, and to provide greater facilities for postgrad study and original res in all branches of learning by establishing centres of postgrad. study and res in different parts of the state. The Kerala Univ. Act came into force on Aug. 30, 1957, and the Univ. of Travancore became the Univ. of Kerala from that date.

CONSTITUTION. The governor of the state of Kerala is chancellor of the univ., and the pro-chancellor is the minister of education for the state. The vice-chancellor, the principal academic and executive officer of the univ., is apptd. by the chancellor on the unanimous recommendation of a sp. cttee of 3 members (1 elected by the senate, 1 by the syndicate, and 1 nominated by the chancellor), to hold office for 3 yrs, the appt of the first vice-chancellor under the Kerala Univ. Act being made, however, by the chancellor.

The other authorities of the univ. are the senate, syndicate and facs. The senate, to be reconstituted every 3 yrs, includes, *ex officio*, elected and nominated members and has general superintendence over the affairs, concerns and properties of the univ. The syndicate, of 16 members, is the executive body and exercises general superintendence and control over the instns of the univ. The facs advise the senate and syndicate on all academic matters.

INCOME (1959-60) Rs 6,980,221 (govt. grant, fees & misc.).

FACULTIES Agric, arts, Ayurveda, comm, educn, engin, fine arts, law, med, oriental studies, sci, vet. sci. For deans, see p 539.

LIBRARIES Univ library contains 78,476 books, univ. MSS library, over 33,300 MSS and 3000 printed books.

LABORATORIES Appl chem., marine biol., oceanog., stats.

ADMISSION. Admission to pre-univ. course is open to candidates who have passed the secondary sch. leaving cert. exam. conducted by the educn dept of the Kerala state or any other exam. accepted by syndicate as equivalent.

FIRST DEGREES 3 yrs after pre-univ.—BA, BSc, BCom. After pre-professional 3 yrs —BSc(Agric), 4 yrs —BSc(Eng), BDS, BVSc, 5 yrs —BAM (Ayurvedic med.), 5½ yrs —MB BS.

HIGHER DEGREES 1 yr —BLabSc, BEd; 2 yrs —BL, MA (course), MSc (course), MEd (after BEd), ML (after BL), 3 yrs —MSc by res.; 2 yrs after MB BS—MS, MD, 2 yrs after MSc by res., 3 yrs after MA or MSc by exam —PhD (by res.), 2 yrs after PhD—DLitt, DSc.

HONORARY DEGREES DSc, DLitt, LL.D

DIPLOMAS 1 yr after graduation—DSS, 1 yr. after MB BS—DGO, DCP, 5 yrs. after S.S.L.C.—DAM

ORIENTAL STUDIES The following titles are awarded by exam: 3 yrs after S.S.L.C. or entrance exam in the corresp lang—Vidvan (Hindi, Kannada, Malayalam, Sanskrit, Tamil), 4 yrs after S.S.L.C. or entrance to Afzal-ul-ulama title exam—Afzal-ul-ulama (Arabic)

RESEARCH To promote res. in appl sci. a Central Res. Inst was founded in 1939 by amalgamating scientific units of various govt depts. The inst. was reorganized in 1956 and again in 1959. With the last reorganization the following depts and sections became independent depts. of study and/or res and function directly under the vice-chancellor: stats, appl. chem, marine biol. & fisheries, mineral survey & res. and pharmacognosy. The chairman of the new council of res. is the vice-chancellor.

STUDY LEAVE, as such, is not granted. Temporary employees (subject to continuous service for not less than 2 yrs), and permanent

employees, granted eligible leave plus leave on loss of pay for purposes of higher studies

FEES Tuition fees p a pre-univ, Rs 108, pre-professional, Rs 128, BA, BSc (pass & honrs), Rs 128, BA, BSc (3 yrs), Rs 128, FL & BL, Rs 160, BEd, Rs 150, BSc(Eng), Rs 200, MB BS, Rs 240; BSc(Agric), Rs 150, BVSc, Rs 150

ACADEMIC YEAR June to April, 3 terms June 12 to Aug 18, Aug 28 to Dec 22, Jan. 3 to March 23

LANGUAGE OF INSTRUCTION AND EXAMINATION English

THE UNIVERSITY EMPLOYMENT BUREAU functions as an integral part of the National Employment Service with freedom to develop on its own lines. It aims to make available to univ. students all current lit. and information relating to careers and openings and information regarding current competitive exams, various courses of studies of a specialized or profess. nature offered by other univs. in India and other countries and assist univ. students in taking up such trg or studies, to select and submit suitable registrants of the bureau against vacancies for apprentices and trainees in private establs., etc

RESIDENCE Students not living with their parents or guardians must live in approved hostels or lodgings. Besides the hostels maintained by govt and the univ there are also private hostels recog. by the univ.

MEDICAL INSPECTION AND PHYSICAL EDUCATION Provision has been made for med inspection of students by qualified med officers. Every student is required to undergo med inspection on admission to pre-univ course and again on admission to pre-professional course, 3-yr degree course, etc., and every alternate yr. thereafter. Phys educn is compulsory for the pre-univ, pre-professional and 1st yr of the 3-yr degree courses and the colls have qualified phys instrs. Athletics have been provided for in all colls. Univ tennis stadium, stadium for field sports. Instrcn in Yogic phys culture

DEPARTMENT OF PUBLICATIONS This dept publishes new books of literary and scientific interest in Tamil and Malayalam

PUBLICATIONS. *Calendar* 2 pts. (pt I, act, statutes, ordinances, etc, every 3 yrs, Rs 4 50, pt. II, syllabus, every 3 yrs, Rs 2), *List of Text-books for univ exams*, annual, R 1, *Administration Report* (annual); *Journal of Indian Hist* (3 issues p a.), Rs 10.50 p a., *Sanskrit Journal* (quarterly), Rs 4 p a.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS Bldgs completed · univ library

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	31,354	71
Women	13,071	15
Total	44,425	86

Distribution by Faculties Agric, 215, arts, sci & oriental studies, 36,552, Ayurveda, 166, comm, 1944, educn, 2037, engin, 1548, fine arts, 28; law, 480, med, 1182, vet sci., 359
Total 44,511

Included in the figures above are —

Pre-University students, 15,311.
Postgraduate students, 3598
New admissions, 15,383
Students from other countries, 28 (Countries from which largest numbers came Nepal, 9, Malaya, 6, Africa, 5, Ceylon, 4).

DEGREES AWARDED (1959-60) Agric BSc (Agric), 32. Arts BA, 1418, BA (hons), 37; MA, 78 Ayurveda BAM, 9 Comm BCom, 297 Educn BEd, 440, MEd, 2 Engin. BSc(Eng), 65 Fine arts MLatt, 1 Law BL, 108, ML, 1 Med: MB BS, 71. Oriental studies BA, 109 Sci BSc, 1507, BSc (hons), 16, MSc, 58 Vet sci BVSc, 14 PhD 3

UNIVERSITY OF LUCKNOW

Founded 1921

Postal Address : Badshah Bagh, Lucknow, Uttar Pradesh, India

Telephones * Univ Office, 2270, Registrar, 3138

CHANCELLOR—THE GOVERNOR OF UTTAR PRADESH

VICE-CHANCELLOR—R SINGH, BSc LLB

HON TREASURER—N C CHATURVEDI, MA LLB

REGISTRAR—K D TEWARI, MA LLB

PROCTOR—M. D JOSHI, MA DLitt

HON LIBRARIAN—A V VITTAL RAO, MA PhD Lond

TEACHING STAFF

[†=Part-Time]

CANNING COLLEGE (Aits, Science, Law, Commerce and Oriental Dept.)

(Telephone 2270)

Ancient History and Archaeology		Alavi, M H, MA PhD	Asst Prof
Dixit, R K., MA PhD	Prof	Ahmad, E, MA PhD	Asst Prof
		Astronomy, see Maths	
Puri, B N, BLitt DPhil Oxon, MA LLB	Asst Prof	Botany	
(on leave)		Ramchandra Rao, A, DSc	Actg. Prof.
Srivastava, B N, MA	Asst Prof	Varma, G S, MSc PhD, FLS	Asst Prof.
Singh, S D, MA	Asst Prof	Agarwal, S C, PhD Brist, MSc Brist &	
Avasthi, A B. Lal, MA	Asst Prof	Luck	Asst Prof
Saksena, K. K., MA	Asst Prof	Trivedi, B. S, MSc	Asst Prof
Thapliyal, K. K., MA	Asst Prof	Rai, J N, MSc PhD	Asst Prof
Anthropology		Ram Udar, MSc PhD	Asst Prof
Sen, D K, MSc Calc	Asst Prof.	Prasad, B N, MSc PhD	Asst Prof.
Mathur, K S, PhD ANU, MA BCom	Asst Prof	Awasthi, D. D, MSc	Asst Prof.
		Sharma, B B, MSc PhD	Asst Prof.
Sarna, G, MA	Asst Prof	Raghuvanshi, S. S, PhD All., MSc	Asst Prof.
Madan, T N., PhD Melb., MA	Asst Prof	John, Rachel, MSc PhD	
Jain, R K, MA	Temp. Asst Prof	(on leave)	
Srivastava, R P, MA	Temp Asst Prof	Saxena, B N, MSc	Temp. Asst. Prof.
		Sharma, C. P, MSc	Temp. Asst Prof.
		Sharma, Miss Usha, MSc	Temp Asst Prof.
Applied Economics		Business Administration	
Gupta, O P., BSc(Econ) PhD Lond.	Prof	Pandey, A, MA Alld	Asst. Prof.
Datt, G, MA MCom LLB	Asst Prof.	Varshney, R. L, MCom PhD	Asst Prof.
Hayela, G L, MA Alld, LLB PhD	Asst Prof.	Joshi, L. D, MCom DPA	Asst Prof.
Singh, M. P, MA MCom PhD	Asst Prof.	Srivastava, K. S, MCom PhD	Asst Prof.
Rastogi, J. L., MCom PhD	Temp Asst Prof.	Kaushal, O P., MA MBA Penn.	
Maheshwari, K. L., MCom	Temp Asst Prof.		
Varshney, P N, MCom	Temp Asst Prof	Srivastava, R N, MCom	Temp Asst Prof.
Khandelwal, B N, MCom PhD	Temp. Asst Prof		
Arabic		Chemistry	
		Sen, A B, MSc PhD	Prof
Samadi, S. B, MA PhD DLitt	Prof	Shukla, S N, PhD Lond, MSc	Prof
Dabur-i-Kamil	Asst Prof	Krishnan, P S, PhD Corn, MA MSc	Prof
T			

Srivastava, L. N., MSc PhD	Asst Prof	Singh, R. P., MA BT <i>Cale</i> , BEdSc	Asst. Prof
Mukerji, L. N., DIC, PhD <i>Lond.</i> , MSc	Asst Prof	Mukherji, L., MA BEd PhD	Asst. Prof.
Yadava, B. P., MSc PhD	Asst Prof	Chaubey, S. P., MA EdD <i>Oregon</i>	Asst Prof
Gopal, R., MSc PhD	Asst. Prof	Gupta, R. P., MA BEdSc Med	Temp. Asst Prof
Tewari, S. S., MSc PhD	Asst Prof	Kaur, Mrs Surjeet, MA MEd	Temp. Asst Prof
Srivastava, T. N., MSc PhD	Asst Prof	Saksena, Miss Sakuntla, MA MEd	Temp Asst Prof
Misra, G. S., MSc PhD	Asst. Prof	PhD .	Temp Asst Prof
Bose, A. N., MSc PhD	Asst Prof		
Misra, V. S., MSc PhD	Asst Prof		
Pande, C. S., MSc PhD (on leave)	Asst Prof		
Rastogi, M. C., MSc PhD	Asst Prof		
Srivastava, R. D., MSc PhD	Asst Prof		
Khare, M. P., MSc	Asst. Prof.		
Agarwal, R. C., MSc	Asst Prof		
Mukerji, D. D.	Temp Asst Prof		
Shukla, J. S., MSc PhD	Temp. Asst Prof		
Sen Gupta, A. K., MSc	Temp. Asst. Prof		
Sanwal, G. G., MSc	Temp. Asst. Prof		
Gupta, S. S., MSc	Temp Asst Prof		
Kulkarni, Y. D., MSc PhD	Temp Asst Prof		
Tewari, K. K., MSc	Temp Asst Prof		
Krishnan, P. R., MSc	Temp. Asst Prof.		
Prasad, J., MSc	Temp Asst Prof.		
Bhargava, H. N., MSc PhD	Temp Asst. Prof		
Srivastava, S. B., MSc PhD	Temp Asst Prof		

Commerce

Sarkar, K. C., MA PhD	Prof		
Sharma, S. L., MCom PhD			
	(on leave) Asst Prof		
Saxena, P. D., MA BCom LT	Asst Prof		
Lall, R. M., MCom LLB, FCA	Asst Prof		
Sinha, I. B., MCom, FCA	Asst Prof		
Saksena, K. K., MCom PhD	Temp Asst Prof		
Saxena, P. N., MCom PhD	Temp. Asst. Prof		
Tandon, R. K., MCom	Temp. Asst. Prof		
Saxena, R. C., MCom	Temp. Asst. Prof		
Gupta, H. O., MCom	Temp Asst. Prof		
Srivastava, B. D., MCom LLB	Temp Asst Prof		

Economics

Singh, B., MA LLB PhD DLitt	Prof		
Joshi, M. D., MA <i>Alld</i> , DLitt	Asst. Prof		
Chandra, P., MA	Asst Prof		
Khan, N. A., MA PhD DLitt			
	(on leave) Asst Prof		
Seth, K. C. G., MA	Asst. Prof.		
Misra, S. D., MA <i>Alld.</i> , PhD	Asst Prof		
Singh, V. B., MA PhD	Asst. Prof		
Srivastava, H. G. P., MA BCom LLB			
PhD	Asst Prof		
Rawat, P. L., MA PhD	Asst Prof		
Banerji, P., MA	Temp. Asst Prof		
Ahluwala, R. S., MA	Temp Asst. Prof		
Srivastava, N. N., MA PhD	Temp Asst. Prof.		
..	Temp Asst. Prof		

Education

Mathur, R. B., BA PhD DPA <i>Lond</i> , CertEd <i>Camb.</i>	Asst. Prof		
Jha, S. N., BSc MA <i>Agra</i> , LT <i>Alld.</i> , EdD <i>Oregon</i>	Asst. Prof.		
Jaiswal, S. R., MA EdM PhD <i>Misc</i>	Asst. Prof		

English

Rao, A. V., MA <i>Madr</i> , PhD <i>Lond</i>	Prof		
Mohan, R., MA PhD <i>Leeds</i>	Asst Prof		
Rastogi, R. S., MA	Asst. Prof		
Narain, S. K., MA	Asst Prof		
Chandra, N., MA	Asst Prof		
Jamjuddin, K., MA PhD	Asst Prof		
Sinha, S. M., MA PhD	Asst Prof		
Saxena, P. K., MA PhD	Asst Prof		
Chaturvedi, B. N., MA PhD	Asst Prof		
Mangalik, Mrs Mohini, MA	Asst Prof		
Dixit, K. K., MA	Asst Prof.		
Chaubey, S. K., MA PhD	Asst Prof.		
Mathur, K. C., MA PhD	Asst. Prof.		
Siddiqui, N. H., MA	Asst. Prof		
Srivastava, R. N., MA	Asst. Prof.		
Misra, J. B., MA	Asst. Prof		
Srivastava, A. K., MA	Asst Prof		
Bisaria, R., MA	Temp Asst Prof		
Pande, J. N., MA	Temp Asst Prof		

French, see Mod. European Langs.**Geology**

Misra, R. C., MSc PhD	Ptof.		
Tewari, B. S., MSc PhD	Asst Prof		
Singh, S. N., MSc	Asst Prof		
Kharkwal, A. D., MSc <i>Ban</i>	Asst Prof		
Vimal, K. P., MSc	Asst Prof		
Valdiya, K. S., MSc	Asst Prof		
Singh, S. K., MSc	Asst Prof		
Chandia, G., MSc	Temp Asst. Prof		

German, see Mod. European Langs**Hindi**

Gupta, D. D., MA LLB DLitt <i>Alld</i>	Prof		
Shukla, K. N., MA DLitt <i>Ban.</i>	Asst. Prof		
Mishra, B., MA PhD (on leave)	Asst Prof		
Agarwal, S. P., MA LLB PhD	Asst Prof		
Avasthi, H. K., MA	Asst Prof		
Dikshit, T. N., MA LLB PhD DLitt			
	Asst Prof.		
Trivedi, V. B., MA DPhil <i>Cale</i>	Asst Prof		
Misra, B. K., MA	Asst Prof.		
Dikshit, H. L., MA PhD	Asst Prof.		
Tandon, P. N., MA	Asst Prof		
Shukla, Mrs Sarla, MA PhD			
	(on leave) Asst Prof.		
Agrawal, R. P., MA <i>Cale & Luck</i> , PhD	Asst Prof		
Srivastava, D. D. N., MA PhD	Temp Asst. Prof		

Yadava, S L, MA PhD Asst. Prof.
 Rastogi, R K, MA Lond & Luck, LLB Asst. Prof.
 Gupta, Mrs Usha, MA PhD Temp Asst Prof.
 Gupta, B C (Bengali) †Asst. Prof.
 Bhakay, G N, MSc LLB (Marathi) †Asst. Prof.
 Sampat, R (Tamil) †Asst. Prof.

Agarwal, Miss Nirmala, MSc PhD Temp Asst Prof.

Modern European Languages

Ishaq, Mrs Isabella (French) Asst Prof
 Kashyap, Mrs. Anita, LLD (German) Asst Prof.
 .. (Russian) Asst. Prof.

Persian and Urdu

History, see also Anc. Hist. and Archaeol.
 Chatterji, N. L, MA Allid, DLitt PhD Prof
 Nagar, R N., MA PhD Asst. Prof.
 Misra, G S., MA Asst. Prof.
 Srivastava, K C, MA Asst. Prof.
 Kishore, B, MA LLB PhD Asst. Prof.
 Dube, S P., MA LLB DPA Asst. Prof.
 Yasin, M, MA LLB PhD Temp Asst. Prof.
 Seth, U. D, MA LLB Temp. Asst. Prof.

Mosvi, S Y. H., MA Asst Prof
 Husain, S. E., MA Allid Asst. Prof.
 Hashmi, N H., MA Allig & Luck, PhD (Urdu) Asst. Prof.
 Khan, A. A., MA Allig., LLB (Urdu) Asst. Prof.
 Hasan, S. S., MA LLB Asst. Prof.
 Husain, R., MA DPhil Allid. Temp. Asst. Prof.

Law

Nigam, S. S., MSc LLM Prof
 Shukla, V. N., PhD Lond, BA LLM Prof
 Gupta, B. K., JSD Yale, BSc LLM Asst. Prof.
 Nigam, R C, MA LLB PhD Asst. Prof.
 Sharma, B N, BA LLM Asst. Prof.
 Tandon, L N, LLM Asst. Prof.
 Kumari, Miss Shradha, MA LLM Yale (on leave) Asst. Prof.
 Agarwal, S K, MA LLM Asst. Prof.
 Kumari, Mrs. Raj Agarwal, MA LLM Yale Asst. Prof.
 Vyas, R C, LLM Temp Asst. Prof.
 Srivastava, B P., LLM Temp. Asst. Prof.
 Dhyan, S. N., LLM Temp. Asst. Prof.
 Shukla, V. S., MA LLM Temp. Asst. Prof.
 Singh, A, LLM Temp. Asst. Prof.
 Pandey, D. C, LLM Temp. Asst. Prof.
 Methur, L. N., MA LLB Temp. Asst. Prof.
 Krishnan, P. G., MA LLB Temp. Asst. Prof.
 Arora, G K, LLM Temp. Asst. Prof.
 Sharma, B K, LLM Temp. Asst. Prof.
 Rekhi, V. S., LLM Temp. Asst. Prof.
 Nayar, V N., LLM Temp. Asst. Prof.
 Srivastava, K C, LLM Temp. Asst. Prof.

Mathematics and Astronomy

Ballabh, R, MSc PhD Prof.
 Agarwal, R P, MSc PhD Asst. Prof.
 Shukla, U K, MSc LLB PhD Asst. Prof.
 Shukla, K S, MA DLitt Asst. Prof.
 Jaiswal, J P, MSc LLB PhD Asst. Prof.
 Sharma, A, MA PhD (on leave) Asst. Prof.
 Bose, S K, PhD DSc Asst. Prof.
 Ishaq, M, DUParis, MA PhD Asst. Prof.
 Chandra, D., MSc Asst. Prof.
 Misra, D N., MSc Asst. Prof.
 Mehra, A. N, MSc Asst. Prof.
 Srivastava, H M., MA Asst. Prof.
 Upadhaya, M D., MSc PhD Asst. Prof.
 Chak, A M, MSc PhD Asst. Prof.
 Singh, Mrs K. D, MA PhD Asst. Prof.
 Srivastava, R. K, MSc Temp. Asst. Prof.
 Singh, D., MSc Temp. Asst. Prof.

Philosophy and Psychology

Saksena, S K, MA PhD Lond Prof
 Narain, R, MA LLB PhD Col Asst. Prof.
 Dasgupta, Mrs Surama, MA Calc., PhD (on leave) Asst. Prof.
 Asthana, H S, MA PhD Asst. Prof.
 Loomba, R. M., MA LLB Asst. Prof.
 Chandra, S., MA Asst. Prof.
 Devaraja, N K., MA DPhil Allid (on leave) Asst. Prof.
 Gon, Miss M, MA Temp. Asst. Prof.
 Bhasin, Miss Usha, MA PhD Temp. Asst. Prof.
 Misra, R. K., MA Temp. Asst. Prof.
 Chandra, S, MA PhD Temp. Asst. Prof.

Physics

Sharma, P. N., PhD DSc Prof.
 Dutt, S. K., MSc Asst. Prof.
 Mathur, S. B. L., MSc Asst. Prof.
 Gokhale, B G, MSc PhD Asst. Prof.
 Saraf, J. R., MSc PhD Asst. Prof.
 Vachaspathi, MSc PhD Asst. Prof.
 Banerji, A. C., MSc Asst. Prof.
 Gupta, R. C., MSc Asst. Prof.
 Saxena, M. C, PhD Sten., MSc Asst. Prof.
 Sharma, C. B., MSc DPhil Asst. Prof.
 Lal, K. C, MSc Asst. Prof.
 Tandon, R. K, MSc Asst. Prof.
 Joshi, B N, MSc Asst. Prof.
 Varma, A S, MSc PhD Asst. Prof.
 Sah, J P, MSc Asst. Prof.
 Dutta, S. N., MSc Asst. Prof.
 Madan, M. P., MSc PhD Asst. Prof.
 Singh, J N., MSc Asst. Prof.
 Pandya, T. P, MSc (on leave) Asst. Prof.
 Bhattacharya, S R., MSc Asst. Prof.
 Pradhan, B. P., MSc Temp. Asst. Prof.
 Rastogi, N C, MSc Temp. Asst. Prof.
 Vyas, A., MSc Temp. Asst. Prof.

Political Science

Loomba, A L, MA Asst. Prof., Offg. Hd. of Dept.
 Masaldan, P N, MA PhD Asst. Prof.

Das, R. B., MA PhD
 Chowdhury, L. P., MA PhD
 Singh, R., MA
 Sharma, J. C., MA PhD
 Singh, D. P., MA PhD
 Misra, K. P., MA PhD
 Bora, Miss Uma, MA PhD DPA

Asst. Prof.
 Asst. Prof.
 Asst. Prof.
 Asst. Prof.
 Asst. Prof.

Mehrotra, G. N., MA
 Ahmad, M. R., MSW
 Lakshmana, C., MA

Temp. Asst. Prof.
 Temp. Asst. Prof.
 Temp. Asst. Prof.

Statistics

Roy, A. R., MSc PhD *Stan*
 Adhikari, B. P., MSc
 Ram, S., PhD *Purdue*, MSc
 Lal, K. M., MSc
 Srivastava, M. S., MSc
 Ray, S. K., MSc PhD

Prof.
 Asst. Prof.
 Asst. Prof.
 Asst. Prof.
 Temp. Asst. Prof.
 Temp. Asst. Prof.

Thakur, L. D., MA PhD
 Awasthi, R. N., MA PhD

Temp. Asst. Prof.
 Temp. Asst. Prof.
 Temp. Asst. Prof.

Russian, see Mod. European Langs.

Sanskrit and Prakrit Languages

Singh, S. V., MA PhD DLitt
 Banerjee, A. C., MA PhD *Lond.*
 Rastogi, M. L., MA
 Trivedi, M. D., MA PhD
 Misra, S. S., MA LLB PhD
 Patni, Mrs. Binapani, MA PhD
 Sinha, J. P., MA PhD
 Mishra, M., MA PhD
 Dikshit, A. K., MA

Prof.
 Asst. Prof.
 Asst. Prof.
 Asst. Prof.
 Asst. Prof.
 Asst. Prof.
 Temp. Asst. Prof.
 Temp. Asst. Prof.
 Temp. Asst. Prof.

Sociology and Social Work, see also Econ
 and Sociol

Mukerji, R. K., MA PhD
 Chandra, S., MA LLB
 Hasan, S. Z., MS DSW *Col.*, BA LLB
 DipSS
 Garg, Mrs. Sarla, MA PhD
 Sharma, S. R., MA LLB
 Saran, A. K., MA
 Nagendra, S. P., MA
 Singh, K. K., MA *Calif*
 Bose, A. B., MSW
 Khinduka, S. K., MSW
 Medan, G. R., MA PhD
 Varma, S. C., MA PhD

Dir.
 Asst. Prof.
 Asst. Prof.
 Asst. Prof.
 Asst. Prof.
 Asst. Prof.
 Asst. Prof.
 Asst. Prof.
 Asst. Prof.
 Temp. Asst. Prof.
 Temp. Asst. Prof.

Urdu, see Persian and Urdu

Zoology

Lal, M. B., DSc *Edin* & *Luck*
 Das, S. M., DSc
 Gupta, P. D., MSc PhD
 Rakshpal, R., MSc PhD
 Tandon, B. K., MSc PhD *Manc*
 Premvati, Mrs., MSc PhD
 Tewari, H. B., MSc DPhil *Alld*
 Gupta, S. P., MSc PhD
 Baugh, S. C., MSc PhD
 Tandon, R. S., MSc PhD
 Srivastava, S. C., MSc PhD
 Srivastava, R. P., MSc PhD

Prof.
 Asst. Prof.
 Asst. Prof.
 Asst. Prof.
 Asst. Prof.
 Asst. Prof.
 Asst. Prof.
 Asst. Prof.
 Temp. Asst. Prof.
 Temp. Asst. Prof.
 Temp. Asst. Prof.

ORIENTAL DEPARTMENT

Arabic and Persian

Naseer, S. M.
 Alari, M. R., MA PhD

Asst. Prof.
 Asst. Prof.

Sanskrit

Awasthi, R. P.
 Jha, A.
 Trivedi, A. P., MA

Asst. Prof.
 Asst. Prof.
 Temp. Asst. Prof.

GANESH SHANKER VIDYARATHI MEMORIAL MEDICAL COLLEGE, KANPUR

Principal—S. P. Suvastava, MS, FRCS

Anatomy

Singh, K. B., PhD *Edin*, MB MS, FRAI
 Kacker, G. N., MB MS
 Jain, P. S., MB BS

Prof., Hd. of Dept.
 Reader
 Lectr.

Dentistry

Pradhan, A. C., BSc BDS

Lectr.

Ear, Nose and Throat

Sinha, S. N. S., MB MS
 Gupta, S. K., MB MS

Lectr.
 Lectr.

Forensic Medicine

Gupta, P. C.

†Prof.

Hygiene

Naqvi, S. H. M., MB MPH

†Prof.

Medicine

Gour, K. N., MD, FRCPed, FRFSGlas
 Agarwal, B. L., MB BS, MRCP
 Jain, S. C., MD, MRCP, MRCPed
 Srivastava, J. R., MD (Paediatrics)
 Sikka, K. K., MD
 Paul, D., MD
 Gupta, B. K., MB BS, MRCP
 Vajpeyi, G. N., MD
 ... (Skin & Venereal Dis.)

Prof., Hd. of Dept.
 Reader
 Reader
 Reader
 Lectr.
 Lectr.
 Lectr.
 Lectr.
 Lectr.

Obstetrics and Gynaecology

Bai, Miss Sunanda, MD BS
 Vaish, Miss Rama, MS
 ..

Reader, Hd. of Dept.
 Lectr.
 Lectr.

Ophthalmology

Singh, R T., DOMS <i>London</i> , MB MS, FRCSEd	Reader, Hd. of Dept.
Razada, I N, MB MS	Lectr.
Singhal, K C, MB MS	Lectr.

Orthopaedics

Gupta, A. K, MChOrth <i>Lev.</i> , MB MS, FRCS	Reader, Hd. of Dept
Gupta, Y N., MB MS	Lectr
Nanda, S, MB MS	Lectr

Pathology

Tyagi, G K, MD BS	Prof., Hd of Dept.
Samual, K. C., MD BS	Reader
Navani, Miss Hari, MD BS	Lectr
Rayvanshi, V. S., MB BS	Lectr.
Saraya, A. K., MD BS	Med Officer, Blood Bank

Pharmacology and Therapeutics

Misra, S S, MD BS	Prof
Srivastava, M C, MD BS	Reader, Offg Hd of Dept Lectr

Physiology

Kapoor, S. R., MD BS	Prof, Hd. of Dept
Sur, B. K., MSc PhD	(Biochem) Reader
Bhatnagar, V M., MD BS	Lectr.
Mehrotra, B N, MD BS	Lectr.
.. .	Lectr.

Radiology

Saxena, O N., DMRT <i>Lev</i> , MB BS DMRE	Reader, Hd. of Dept
Mathur, K C, MB BS DMRE	Lectr.

Surgery

Srivastava, S P, MB MS, FRCS	Prof, Hd. of Dept
Das, P., MB MS, FRCS, FACS (Clin S.)	Prof
Krishna, G, MB BS, FRCS	Reader
Gupta, R L, MB BS, FRCSed	Reader
Bhatnagar, K K, MB BS, FRCS	Reader
Sharma, M C., MB MS	Lectr
Palwal, Y D., MB MS	Lectr
Rozdan, J L, MD BS	Lectr.
Chandra, J, MB BS DVD	Lectr.

ISABELLA THOBURN COLLEGE (Women)*Principal*—Eva I Shipstone, MA DT PhD *Harv***Chemistry**

Wallace, Miss W, BA <i>Minn.</i> , AM Col, PhD	Reader
Verma, Miss Sharda K, MSc	Lectr.
David, Josephine, MSc	Lectr
Belson, Punroose, MSc	Lectr.

Economics and Sociology

Misra, Miss K., MA	Lectr
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Education

Wilson, Miss M. D., MEd <i>Patna</i> , BA DT	Reader
Roy, Miss B., AM EdD <i>Harv</i>	Reader
Bale, Mrs Marie F, MA PhD	Temp Reader
Paul, Miss B C, MEd	Lectr.

English

Dimmitt, Miss M A., BA <i>DePauw</i> , MA <i>Wellesley</i>	Reader
Sommerville, Miss M, MA PhD <i>New Mexico</i>	Lectr.
Shukla, Miss V, MA	Lectr.
Qamber, Miss A, MA	Lectr
Adiseshuah, Miss S, MA	Lectr

Hindi

Bhatnagar, Mrs. Hem, MA	Lectr.
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History

Johnson, Miss S. E., AM Col.	Reader
Sahney, Miss Vimla, MA	Lectr.

Mathematics

Chandapillai, Miss A., MA LT PhD	Lectr
Harns, Barbara, MA	Lectr.

Persian and Urdu

....	Lectr.
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Philosophy

Williams, Miss L V., MA <i>Ohio</i>	Lectr.
Shukla, Miss M, MA DT	Lectr.
Kumar, Miss U, MA	Lectr.
Shipstone, Miss E., BA	Lectr.
Berry, Miss E, MA	Lectr.

Physics

Zutshi, M N, MSc LT	Lectr.
---------------------	--------

Political Science

Wanchoo, Miss V, MA	Lectr
---------------------	-------

Sanskrit and Prakrit Languages

.. .	Lectr.
------	--------

Sociology, see Econ.**Urdu, see Persian and Urdu****Zoology**

Mathew, Miss A., MA	Lectr.
Dutt, Noreen, MSc	Lectr.

JUBILEE GIRLS' COLLEGE

Principal—Miss B. Datta, BA Teacher's Cert Lond*Vice-Principal*—Miss S Choudhury, MA BT

Roy, Mrs Lalita S.	Lectr	Das, Miss Bibha, MA BT	†Lectr.
Kapoor, Mrs Padma	Lectr	Bagchi, Ruby, MA	†Lectr
Banerji, Miss Nalina	Lectr	Roy, Miss Kamla R, MA MED	Lectr.

KANYA KUBJA COLLEGE

Principal—M G. Misra, MSc BT

Botany and Geology		Geology, see Bot. and Geol.	
Majumdar, S S, MSc LT	Lectr.	Mathematics	
Bhatnagar, S. P., MSc	Lectr.	Dikshit, K L, MA	Lectr
		Nigam, R C, MSc	Lectr
Chemistry			
Misra, M. G, MSc BT	Lectr.	Physics	
Chaturvedi, I R, MSc	Lectr.	Pandey, S K, MSc BT	Lectr
Dikshit, R C, MSc	Lectr	Vaish, K N, MSc LT	Lectr.
Varma, I D., MSc	Lectr		
English		Zoology	
Chatterji, N. C., MA	Lectr.	Misra, V R, MSc	Lectr.
Shukla, B L, MA	Lectr	Srivastava, R. P, MSc	Lectr.

KANYA KUBJA VOCATIONAL COLLEGE

Principal—J. G. Misra, MA LT

Misra, J G., MA LT	Lectr	Shukla, G S, MA LT	†Lectr.
Misra, R N, MA LT	Lectr	Tewari, R C, MA	†Lectr
Misra, Ganga Sarma, MA BT	Lectr.	Sinha, J. P, MA	†Lectr.
Thakku, L D, MA	Lectr	Bajpai, J N, MA Sahityaratna	Lectr
Misra, R. K, BCom MA	Lectr		

KARAMAT HUSAIN MUSLIM GIRLS' COLLEGE

Principal—Miss Wasimunnisa Afridi, MA DT

Economics and Sociology		History	
Salim, Mrs Hamida, MA BT	Lectr	Naqvi, Mrs Hamida, MA	Lectr
		Persian and Urdu	
		Zaheer, Mrs Sajjad R, MA	Lectr.
English		Philosophy	
Afridi, Miss Wasimunnisa, MA DT	Lectr.	....	Lectr.

KING GEORGE'S MEDICAL COLLEGE

(Telephone : 2202)

Principal—Professor M. L. Gujral, MB BS, MRCP

Anatomy		Halim, A, MB MS	Lectr
Narsyan, D, MB MS	Prof.	5 Sr Demrs, 2 Jr. Demrs.	
Varma, H C, MB MS	Reader		
Das, A. C, MB MS	Lectr	Ayurvedic	
Dube, N, MB MS	Lectr	Shukla, G. D, MA MS Sahityacharya	
Bhatnagar, B N S, MB MS	Temp Lectr	Principal, Ayurvedic Section	
Jha, M R, MB MS	Lectr	Shukla, S D, MA MS Sahityacharya	Reader

Chaudhary, K. R., FRCS	(Surg)	Reader
Sharma, D. N., MD	(Med)	Reader
Hansraj, MB BS	(Ophthalmol)	Reader
Mendonca, Miss B., MD	(Obstet)	Reader
Misra, N. B., MB MS	(Anat)	Reader
Mittal, V. N., MD	(Physiol)	Reader
Singh, R. S., BA		Lectr
Battachary, P. K., MB BS		Lectr
Shastri, B. D., Ayurvedacharya		Lectr.
Tripathi, R. P., BA MS Ayurvedacharya		Lectr.
Govil, K. K., DPH DTM		Lectr
Sharma, A. D., MA Ayurvedalankar		Lectr
Tewari, C. M., MB BS DCP		Lectr.
Swaroop, G., MB BS DCP		Lectr.
Sharma, V. K., BA		Lectr
Sharma, Miss Radha, MB BS		Lectr
Sarkhyadhar, S. C., MA Shahityaratna		Lectr
Shastri		Lectr
Arora, K. L., MB BS		Lectr
Sharma, K. D., MB BS		Lectr
Saxena, R. K.		Lectr.
3 Demrs		

Dentistry

Chawla, T. N., BSc BDS <i>Pang</i> , MS	Prof
Chaudhry, K. P., BSc <i>Pang</i>	Reader
Gupta, H. D.	Lectr
Nanda, R. S., BDS <i>Bom</i> , PhD	Lectr
Das Gupta, M., LMP LDSc	Temp Lectr
Roy, R. K., BDS	Lectr
Bhargava, K., BDS MS	Lectr
Mathur, M. N., BSc BDS, FDSRCS	Temp Lectr
Kharina, S. K., BSc BDS	Hon Lectr
4 Sr Demrs, 1 Hon Demr, 1 Anaesthetist	

Diseases of Ear, Nose and Throat

Misra, R. N., MB MS DLO	Prof
Bhatia, M. L., MB BS DLO	Lectr
Gupta, O. P., MB MS	Temp Lectr.

Forensic Medicine

Khan, M. U., DTM DOMS DO <i>Oxon</i>	†Prof.
Chandra, J., MD BS DMRE	Lectr

Medicine

Misra, S. S., MD, FRCP	Prof
Kunwar, K. B., MD LLB	
(Pathol., Med. & Pharm.)	Offg Prof
Gupta, N. N., MD	Reader
Chakravarty, S. N., MD	Reader
Nath, K., MD	Reader
The Supt., Mental Hosp., Agra	
Teacher in Mental Diseases	
Tandon, O. P., MD	Reader
Sharma, N. L., DTM DPH <i>Calc.</i> , DCH <i>Lond</i> , MB BS (Paediatrics)	Reader
Gupta, R. N., MB BS (Dermatol.)	Lectr.
Wig, N. N., MD BS (Neuropsychiatry)	†Lectr.
Rastogi, V. S., MB BS (Neuropsychiatry)	Temp Lectr
Bajpai, P. C., MRCPed (Paediatrics)	Lectr.
Bhatia, K. B., MD BS	Lectr

Singh, B. N., MD	Lectr
Dikshit, S. K., MD	†Lectr.

Obstetrics and Gynaecology

Engineer, Miss A. D., MD, FRCOG, FRCS	Prof
Kutty, Miss Devaki, MB BS <i>Lond</i>	Reader
Mukerji, Miss M., MD	Temp Reader
Varma, Miss Leela, MS	Temp Lectr
Mehra, Mrs. Prabha, MB MS	Temp Lectr.

Ophthalmology

Gupta, S. P., DOMS <i>Lond.</i> , MB, FRCSEd	Prof
Khanna, Capt V. N., MB BS DTM DO	
DOMS	Reader
Mehra, M. K., MB BS DO <i>Lond</i>	Reader
Garg, K. C., MB BS DO <i>Lond</i> , FRCSEd	Temp Lectr.

Orthopaedics

Sinha, B. N., MB BS, FRCS	Prof.
Goel, M. K., MB MS	Reader
Srivastava, A. N. S., MB MS	Lectr

Pathology

Gupta, S. P., BSc <i>Ban</i> , MD DipBact <i>Lond.</i>	Prof.
	Reader
Gupta, N. P., MD DipBact <i>Lond</i>	Reader
Mehrotra, R. M. L., MD	Temp Reader
Wahal, K. M., MD DSc	Lectr.
Kumar, A., MSc DPhil	Lectr
Kumar, S., MS (Haematol.)	Lectr
Paul, Miss Sharda D., MD BS	Temp Lectr
1 Sr. Demr., 4 Jr Demrs.	

Pharmacology

Gural, M. L., MB BS	Prof
Bhargava, K. P., MD	Reader
Sareen, K., MSc PhD <i>Zur</i>	Temp Reader
Saxena, P. N., MD	(on leave) Lectr
Dhawan, B. N., MD BS	Temp Lectr.
Kohli, R. P., MD	Lectr.
Gupta, G. P., MB BS	Temp Lectr
2 Sr. Demrs., 2 Jr Demrs., 1 Pharmaceutical Chemist	

Physiology

Shukla, R. C., MD	Prof
Kumar, S., MD BS PhD	Reader
Malaviya, B. K., MSc DPhil <i>Alld</i>	Reader
Kapoor, S. R., MD	Reader
Prasad, J., MD MS	Temp Reader
Tandon, G. S., MD BS	Offg Lectr
Garg, S. K., MD BS	Temp Lectr.
Agarwal, H. C., MD	Temp. Lectr.
Khanna, D. N., MB BS	Temp. Lectr
4 Sr Demrs., 2 Jr Demrs.	

Radiology

Leal, B., DMRT <i>Law</i> , MD DMRE	Prof
	(Radio-Therapy) Lectr.
Kumar, A., MD BS DMRE	†Lectr
Agawal, S. K., MSc (Radio-Phys)	†Lectr

Social and Preventive Medicine

Prasad, B G, MD DPH DTM	†Prof
Bahadury, T, DPH MPH	†Reader
Jain, P C, MSc	Lectr
Bagchi, S C, MD MS DPH	Lectr
Bahadur, P., MB BS	Sr Demr
Zaheer, M, MB BS	Sr Demr

Sharma, R N, MB MS, FRCS	Reader
Charan, A, MB MS	Reader
Gupta, R N, MB BS (Venereal Dis)	†Lectr
Dubey, P C, MS, FRCS, FRCSEd, FRFPGlas	Temp Lectr
Agarwal, G F., MB BS	Temp Lectr
Agarwal, K C, DA Bom	†Lectr.

Surgery

Misra, S. C., MB BS, FRCS	Prof
Singh, R V, MB MS, FRCS (Clin Surg)	Prof
Chandra, T, MS, FRCS	Reader

Tuberculosis

Mathur, J B L, MD	Prof
Khanna, B K, MD BS	Lectr
	Temp Lectr.

LUCKNOW CHRISTIAN COLLEGE*Principal*—C. M. Thacore, MA PhD LLD TDip**Botany**

Nigam, M P, MSc	Lectr.
Bhakey, G N, MSc LLB	Lectr.

Appasamy, K, MA BD	Lectr.
Jordan, I A, MA	Lectr.

Chemistry

Chowfin, E H, MSc LT	Lectr
Sinha, A K, MSc	Lectr.
Morrison, J I, MSc	Lectr
Lal, D D., MSc	Lectr

Mathematics and Statistics

Sinastava, R S L, MSc	Lectr
Tewarson, R P, MSc	Lectr

Physics

Mundle, N K, MSc PhD	Lectr
----------------------	-------

Zoology

Jordan, E L, MSc <i>Allid</i> , MA <i>Tor</i>	Lectr
Nigam, H. C., MSc	Lectr

English

Thacore, C M., MA PhD LLD TDip	Lectr
--------------------------------	-------

MAHILA VIDYALAYA COLLEGE (Women)*Principal*—Miss Kanchanlata Sabarwal, MA *Patna*, PhD**Economics and Sociology**

Vargese, Mrs S, MA	Teacher
--------------------	---------

Hindi

Srivastava, Miss R K, MA	Lectr
Singh, Miss R, MA LLB	Lectr

Education

Chaturvedi, Miss V, MA MED LT	Lectr
Bisarya, Miss Saroi, MA MED	Lectr.
Rani, S M, MA MED	Lectr.
Khayanchand, Miss Leela, MA MED	Lectr.
Vidyarati, Mrs Bimla, MA MED	Lectr
Srivastava, Miss Malti, BT	Temp Lectr
Srivastava, Mrs S., MA BT	†Lectr

History

Srivastava, Mrs Rameshwan D, MA MED	Lectr
Sinha, Mrs C MA	Lectr.

Mathematics and Statistics

Bajpai, Miss Saraswati, MA LT	Lectr.
-------------------------------	--------

Philosophy

Lal, Miss Pritu K, MA BT	Lectr
--------------------------	-------

Sanskrit and Prakrit Languages

Tiwari, Mrs. Pratibha, MA	Lectr
Sinha, Mrs Chandra M., MA	Lectr

Dutta, Mrs S, MA DT	Lectr
Vyas, Manorama, MA	Lectr
Dutt, Mrs S, MA DT	Lectr

Sociology, see Econ. and Sociol.

SHIA COLLEGE

Principal—S A A Zaidi, MA LT

Botany and Geology

Vaish, S S, MSc
Singh, A, MScLectr.
Lectr.

Mathematics

Saiyan, S, MSc
. . .Lectr.
Lectr.

Physics

Husain, I, MSc
Srivastava, R. C., MScLectr.
Lectr.

Chemistry

Mathur, J. P., MSc
Dutt, T., MSc
Naqvi, A. D., MScLectr.
Lectr.
Lectr.

Zoology

Srinastava, N N., MSc
Johri, G N, MScLectr.
Lectr.

D A V COLLEGE. BA, BSc Principal—J R Bajpai, MA

VIDYANT HINDU COLLEGE BA Principal—S C Mukerji, MA CT

LORENTO CONVENT GIRLS' COLLEGE BA Principal—Mother M Damien

KHUNKHUNJI GIRLS' COLLEGE BA Principal—Mrs Lakshmi Sondhi, MA

SHASHI BHUSHAN BALIKA VIDYALAYA DEGREE COLLEGE Principal—Miss Lila Vidyant, MA BT

ADMINISTRATIVE AND OTHER STAFF

ASST. REGISTRARS S Shankar, BA, A K Raizada, BA (Accounts), P C Mital, MA

ASST PROCTORS Arts S Z Hasan, MS DSW Col, MA LLB DipSS, S S Misra, MA PhD, A A Khan, Khalid, MA, B N Srivastava, MA, K Jamiluddin, MA PhD Science S C Agarwal, MSc PhD, S N Singh, MSc Medicine K P Chaudhary, LDS RCS Law L N Tandon, MA LLM Commerce G L Ilajela, MA LLB PhD Women Students. Mrs Sarla Garg, MA PhD.

SR. NCC OFFICER. Capt G Dutt

GANDHI MEMORIAL AND ASSOCIATED HOSPS. Supt. R C. Srivastava, MB BS.

CANNING COLLEGE Provosts V N Shukla, BA LLM PhD Lond (Butler Hall), P N Sharma, DSc (Subhas Hall), G S Varma, PhD, FLS (Tilak Hall), K. C. Sarkar, MA PhD (Mahmudabad Hall), H. K Awasthi, MA (Habibullah Hall), R Mohan, MA PhD Leeds (Narendra Deva Hall); R B. Das, MA PhD (Balrampur Hall), Mrs P. Shukla, MA BT (Kailash Hall) Med Officer B N. Mchotra, MB BS Resident Med Officer V Sharma, MB BS

ISABELLA THORBURN COLLEGE Chief Warden Miss Renee Singh, MA MEd G. Peabody

JUBILEE GIRLS' COLLEGE Vice-Principal Warden . . . Med Officer . . .

KANYA KUBJA COLLEGE Vice-Principal N C. Chatterji, MA Warden L S Misra, MA Med Officer

KANYA KUBJA VOCATIONAL COLLEGE Vice-Principal Gouri Shaiker Misra, MA LLB Chief Warden G S Misra Med Officer A K Sen

KARAVAT HUSAIN MUSLIM GIRLS' COLLEGE Warden Med Officer T Chand, MB BS

KING GEORGE'S MEDICAL COLLEGE Provosts Prof R V Singh (Chakravarti Hall), H C Verma, MS (on leave) (Gokalan Nath Misra Hall), N N Gupta, MD (Sardar Patel Hall), Miss A D Engineer, MD, FRCOG, FRCS (Vijaya Lakshmi Hall)

LUCKNOW CHRISTIAN COLLEGE Wardens J Banerji, MSc (CL Barc Hostel), C S Franklin, MA LLB (OC Hostel) Med Officer

MAHILA VIDYALAYA COLLEGE Warden Mrs C V Khair, MA Med Officer Miss P Arora, MB BS

SHIA COLLEGE Vice-Principal Warden S D Husain Med Officer . . .

VIDYANT HINDU COLLEGE Vice-Principal G L Dixit, MA BT. Med Officer . . .

GENERAL INFORMATION

This residential and teaching univ was established under an act of the provincial legislature passed in Nov 1920. The authorities of the univ include a court, executive council, academic council, etc., of reference and fees.

FACULTIES AND DEANS *Arts*, Prof A V Rao (Engl.), *comm*, Prof O P Gupta (appl econ.), *law*, Prof S S Nigam, *med*, Principal M L Gajral, *med (anc & mod)*, Principal G D Shukla (Ayurvedic), *sci*, Prof M B Lal (zool).

LIBRARY 192,834 vols (excluding King George's Med Coll and Bonarjee library)

ADMISSION Qualifies for degree courses arts or sci—inter exam of an Indian univ or of the bd of high school and inter educn, U.P., or of Rajputana (incl Ajmer-Merwara), Central India and Gwalior, or of the bd of inter. and sec educn, Dacca, the exam conducted by the bd of sec educn, U.S. of Madhya Bharat, the pre-medical exam of Delhi univ., the pre-engin. exam conducted by the pre-engin exam. bd, the Cambridge higher sch. cert exam, previous exam of Camb Univ., responses of Oxford Univ. Law—degree in arts, sci. or comm. Comm.—commercial dipl of the Panjab Univ., or the inter exam in comm. of the bd of high sch. and inter educn, U.P., or of Rajputana (incl Ajmer-Merwara), Central India and Gwalior, or the inter exam in arts (group B—special) of Delhi Univ. or inter exam in group E of the bd of inter and sec educn, Dacca, the inter exam. of Andhra Univ., in 3 commercial subjs., inter or BA exam of any recognized univ., with econ., pt I of the assoc exam. of the Indian Inst. of Bankers after passing inter exam.; all-India sr dipl exam. of the all-India bd of commercial studies, Delhi Med.—degree in sci of Agia, Alig., Alid, Ban., Bom, Calc, Dacca, Delhi, Madr, Mys, Nag, Panj, Panj (I), Patna or Rangoon taken with chem and biol as optional subjs. or, subject to certain conditions, the inter exam. of Alig, Ban., Panj, Panj (I), Raj, Nag, Saug., Bom, Patna, Kara, Delhi, inter bd of educn, U.P., or the exam conducted by the bd of sec educn, U.S. of Madhya Bharat, BSc exam of the Univ of S Africa

FIRST DEGREES 2 yrs.—BA pass, BSc pass, BCom, 3 yrs.—BA hons, BSc hons; 4 yrs (for med grads, 2 yrs)—BDS; 5 yrs.—MB BS, BM BS (in Ayurvedic med) Lectures are supplemented by tutorial work.

HIGHER DEGREES. 1 yr.—BED, MA (after BA hons.), MSc (after BSc hons), MSW, MEd (after BED), 2 yrs.—LLB, MA, MSc, MCom, MED, LLM (after LLB), PhD (in arts, sci., comm., by res), 3 yrs after MB BS—MD, MS, 3 yrs after LLM—LLD; 5 yrs after PhD—DLitt, DSc The LLD, DLitt, DSc may also be conferred as honorary degrees

DIPLOMAS. French, German, Russian, Arabic, Persian, Sansk., Bengali, Marathi, Tamil 2 yrs.

each Pub admn. 2 yrs for undergrads and 1 yr. for grads Foreign affairs & diplomacy, phys educn, educnl psychol, appl anthropol., psychol, med. radiol & electricity, laryngol & otol, gynæcol. & obstet, teaching, Arabic, Persian, Sansk., military sci, tuberculosis dis, ophthalmic med & surg., clin pathol, orthopaed surg 1 yr each.

CERTIFICATES. Certs of proficiency in French, German, Russian, Arabic, Persian, Sansk., Bengali, Marathi, Tamil 1 yr. each

ORIENTAL TITLES Fazil-i-Adab, Fazil-i-Tafsir (in Arabic), Dabir-i-Kamil, Dabir-i-Mahir (in Persian), Acharya, Shastri (in Sanskrit) each 2 yrs

FEES for tuition per session BA pass and hons, or BCom, Rs 144, MA, MCom or LLM, Rs 180, MB BS, Rs 200, BDS, Rs 300, and BM BS, Rs. 200, dipls in med. radiol. & electricity, laryngol. & otol, gynæcol & obstet, tuberculosis dis. and orthopaed surg, Rs 400 for med grads from colls other than Lucknow, Rs 300 for med grads from King George's Med Coll, Lucknow, BSc pass and hons, or MEd, Rs 180 (geol, Rs. 255), MSc, Rs 216 (maths), Rs 180, geol, Rs. 251, LLB, Rs. 180, DSc, Rs. 270, PhD, Rs 180 (Rs. 270 if work involves use of labs); LT, Rs 162, dipl in military sci, Rs 18, dipl. in psychol, Rs 72, dipl in pub admn, Rs 96, dipl in foreign affairs & diplomacy, Rs 216, dipl in French or German or Russian, Rs 60 for students already on univ registers and Rs. 120 for others, cert of proficiency in French or German or Russian, Rs. 48, DOMS, Rs. 300, DCP, Rs 150

ACADEMIC YEAR Mid-July to end April 3 terms Term dates (approx) July 16 to Oct 11, Oct 27 to Dec 24, Jan 8 to April 30.

The usual **LANGUAGES OF INSTRUCTION** are Hindi and English

RESIDENCE Students are required, unless specially exempted, to live in hostels attached to King George's Med Coll, Canning Coll, Lucknow Christian Coll, Kanya Kanya Coll, Kanya Kanya Vocational Coll, DAV Coll, Vidyant Hindu Coll and Shia Coll. for men, Isabella Thoburn Coll, Mahila Vidyalaya Coll, Karamat Husain Muslim Girls' Coll and Jubilee Girls' Coll for women. There are also univ halls for women students attached to Canning Coll. and King George's Med Coll. Fees for men—Rs. 90 to Rs 135 per session, according to room; for women—Rs. 67 8 to Rs 90 per session, according to room For provosts and wardens, see 'Admin. and Other Staff', above

PUBLICATIONS Calendar (alternate yrs, Rs 10), Prospectus (annual, Rs 7); Annual Report (free); *Quinquennial Report of Research Work* (free), *Lucknow Univ Studies*, Radha Kumud Moohery Endowment Lectures.

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	10,338	—
Women	2,590	—
Total	12,928	—

Distribution by Faculties. *Arts* (incl educn.), 6285, *Ayurveda*, 116, *comm*, 919, *law*, 1284, *med*, 1718, *sci*, 2606 Total 12,928

DEGREES AWARDED (1959-60) DLatt (arts), 2, PhD, 48; MD, 37, MS, 30, MA, 571, MSc, 146, MCom, 91; MEd, 12, LLB, 411, BA (hons.), 10, BSc (hons), 13, MB BS, 146, BEd, 140, BA (pass), 1150, BSc (pass), 410, BCom, 174; MSW, 43; BDS, 11.

DIPLOMAS AWARDED (1959-60). DPA, 18; DFA, 1, German, 3; French, 5, Russian, 10; Arabic Fazl-i-Adab, 6; Alim, 2, Fazil-i-Tafsir, 6, Persian. Dabir-i-Kamil, 3. Sanskrit Acharya, 8; Shastri, 6. Phys. educn, 19; DOrthS, 4, DOMS, 2, DMRE, 1, DCP, 1; DGO, 2

UNIVERSITY OF MADRAS*

Founded 1857

Postal Address : University Buildings, Chepauk, Triplicane P.O., Madras 5, India

Cables and Telegrams University, Madras

Telephones Madras 86914, 86822

CHANCELLOR—THE GOVERNOR OF MADRAS STATE (*ex officio*)

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION OF MADRAS STATE (*ex officio*)

VICE-CHANCELLOR—SIR A. LAKSHMANASWAMI MUDALIAR, DCL Oxon., Hon LLD McG, BA MD LLD DSc, FRCOG, FACS

REGISTRAR—R. R. VARMA, MA Lond

DEPUTY REGISTRAR—RAO SAHIB CAPT D. S. MUDALIAR

LIBRARIAN—V. S. MUTHIAH, AMLS Mich., MA LT

UNIVERSITY TEACHING AND RESEARCH STAFF

[† = Part-Time]

Anthropology

Ehrenfels, Baron U. R., PhD Vienna
Gopalakrishnan, M. S., MA MLitt

Chemistry
Santhappa, M., BA Manc, PhD Manc & Lond (at Madurai Centre) Prof
Swaminathan, S., BSc PhD Ill (Org C) Prof
Janardhanan, P. B., MA PhD (Inorg & Analyt C) Prof
(Phys C) Reader

Archæology

Mahalingam, T. V., MA DLitt
Krishnamurthy, C., MA
Gururaja Rao, B. K., MA
Champakalakshmi, R., MA MLitt
Lectr., Field Asst

Arumugam, N., BSc PhD (at Madurai Centre) Reader
Ramanugam, V. V., MA MSc PhD (Inorg & Analyt C) Reader
Thyagarajan, B. S., MSc PhD Reader
Ganesan, R., MA PhD (Phys C) Lectr
Shanmugam, P., MA (Org C) Lectr
Mahadeva Ayyar, R., MSc PhD (Phys. C.) Lectr

Architecture

Desai, M. G., BA DipArchit, FRIBA
Sajip, R. R.
Ganeshamurthy, C. M., BE
Kukde, W. A., DipArchit
Madhavan, R., DipinFineArts
Prof.
Reader
Lectr
Studio Asst
Studio Asst

Commerce

Sundaramurthy Mudaliar, V., MA BL
Ramadas, R., BCom
†Prof
Reader

Biochemistry

Shanmugasundaram, E. R. B., MA PhD
Narasimhamurthy, P. V., MA MSc
Prof
Lectr.

Co-operative Banking and Agricultural Finance

Krishna Rao, B., BA MLitt
Reader

Botany

Sadasivan, T. S., DSc PhD Lond
Desikachari, T. V., MA MSc PhD
Saraswati Devi, Miss, BSc PhD
Badami, R. S., MA PhD
Kalyanasundaram, R., MA PhD
Subramanian, D., PhD
Prof
Reader
Lectr
Lectr
Lectr

English

Javaraman, T., BA
Lectr.

Geography

Kurryan, G., BA BSc PhD Lond.
Prof.

Business Administration

✓ Krishna Rao, G. V., MBA Col., MA BL
Sivagnanam, R. V. R., BCom BL MBA
Prof
Reader

Geology

Jagapathy Naidu, P. R., MSc DPhil Basle
Leelananda Rao, N., MSc PhD
Prof.
Reader

* Member of the Association of Universities of the British Commonwealth

Abdur Rasheed, D, BSc PhD Reader
 Rajasekaran, K C, MSc Lectr
 Samuel, C J., MSc Lectr

Indian Economics

Balakrishna, R, MA PhD Lond (on leave) Prof
 Bright Singh, D, MA PhD
 (at Madurai Centre) Prof
 Shanmugasundaram, V, MA MLitt Reader
 Joseph, S C, BLitt Oxon, MA MLitt
 (at Madurai Centre) Reader
 Gajalakshmi, M., MA MLitt Res Asst, Lectr

Indian History

Kanakasabapathy Pillai, K, MA DLitt
 DPhil Oxon Prof.
 Arokiaswami, M., MA PhD Reader
 Subramanian, N, MA PhD Lectr
 Ramachandran, C. E., MA Lectr

Indian Music

Isaac, Miss Laght, BA MLitt Res Asst, Lectr

Indian Philosophy

Mahadevan, T M P, MA PhD Prof.
 Devasenapathy, V A, MA PhD Reader
 Sundaram, P K., MA Lectr.

Legal Studies

(Internat. & Constit Law) Prof
 Rama Rao, T S, BSc ML Reader

Library Science

Krishna Rao, D B, MA MSc PhD Prof
 George, A B., MA DipLibSc Lectr
 Tyaganatarajan, B A, MSc Col Lectr
 Thirumalamuthuswamy, M A, DipLibSc Lectr

Mathematics

Krishnan, V S, MA DSc BT Prof
 Venkataraman, M., MA PhD
 (at Madurai Centre) Prof
 Balachandran, V K, BA PhD Reader
 Parameswaran, M R, MA MSc
 (at Madurai Centre) Reader
 Swaminathan, S, MA MSc PhD Lectr
 Venkataraman, R, MSc Lectr
 Ramabhadran, N, MSc Lectr
 Iqbalunnissa, Mrs, BA Lectr

Physics

Ramachandran, G. N, MSc PhD Camb, DSc Prof
 Ramakrishnan, A., BSc PhD Manc Prof
 Chandrasekaran, K S, MSc PhD
 (at Madurai Centre) Reader
 Krishnamurthi, V G, DSc And.
 (at Madurai Centre) Reader
 Mathews, P M., MSc PhD Reader
 Kartha, G, MSc PhD Reader
 Srinivasan, R., MSc PhD Lectr.
 Sasisekharan, V, MSc PhD Lectr

Raman, S, MSc PhD Lectr.
 Thyagaraja Rao, S, MSc Lectr

Politics and Public Administration

Bhaskaran, R, MA Prof
 Arunachalapei umal, C., MA LLB Reader
 Ramanathan, S, MA Lectr
 Jameel Ahmed, R, MA Lectr
 Balachandran, G V, MA Res Asst., Lectr

Psychology

Boaz, G D, MA DPhil Oxon Prof
 Shanmugham, T E, MA MLitt Reader
 Parameswaran, E G, BA PhD Reader
 Faoqi, M A., MA Lectr
 Muthayya, B E, MA Lectr

Statistics

Rajalakshman, D. V, MA MSc PhD Manc. Prof.
 Venkataraman, K N, BA PhD Lectr

Zoology

Gnanamuthu, C P., MA DSc Prof
 Krishnan, G., MA MSc PhD Manc
 (at Madurai Centre) Prof.
 Krishnaswamy, S., MSc PhD Reader
 Job, S V., MA PhD Reader
 Balakrishnan Nair, N, MA PhD
 (at Madurai Centre) Reader
 Doi: Raj, B, MA MSc (on leave) Lectr
 Ramalingam, K, MA PhD Lectr.
 Vasu, B S., BSc Lectr.

TECHNOLOGY**Chemical Engineering**

Laddha, G S, ChE PhD Purdue, BSc(Tech) Di.
 MSc
 Jayaraman V S, BE (General Engin) Prof
 Madhavan Nair, A. P, MA
 (Appl Phys Chem.) Prof
 Chennakesavan, B, BSc PhD Reader
 Ramanujam, V V, MA MSc PhD Reader
 (General Engin.) Reader
 Manickavachagam Pillai, T K, BA LT Reader
 Subba Rao, M G, BSc(Tech) Lectr
 Subiahnanyam, V, MSc (Inorg Chem) Lectr.
 Ramadas Rao, U, BSc PhD (Org Chem) Lectr
 Jagannadhaswamy, B, BSc(Tech) MSc
 (Indust Chem) Lectr.
 Chandrasekharan, K, BSc(Tech) MSc Lectr.
 Sollaratnam, S, BE Lectr
 (Electr Engin) Lectr
 Devanathan, V, MSc (Phys) Lectr
 Kasthuri, K, BE
 (Surveying & Bldg Centre) Lectr
 Narayanaswami, V R, BA (Engl) Lectr

Textile Technology

Krishnamurti, S, BSc BSc(Tech) Prof.
 Quasbi, R A, BSc BSc(Tech) Reader
 Mavlinkar, S A M, MS Lectr
 Balakrishnan, O K, BSc (Textile Chem.) Lectr.

ORIENTAL RESEARCH INSTITUTE
(4 Sections—Sanskritic, Dravidian, Islamic, Hindi)

Arabic, Persian and Urdu

Usha, A H S., BA (Persian) Reader
Kokan, M Y., MA (Urdu) Reader
Haq, M. A., MA MLitt (Arabic) Lectr.

Sanskrit

Raghavan, V, MA PhD Prof.
Kunjurri Raja, K, MA PhD Reader
Subramania Sastri, S, BOL MA Reader

Hindi

Naidu, S. S. R., MA PhD Reader
Ganesan, S N., MA PhD Lectr

Tamil

Varadarajan, M, MA MOL PhD Prof
Dorai Rangaswamy, M. A., MOL PhD (at Madurai Centre) Prof
Purushothama Naidu, B R., Vidvan Reader
Rajamanickam, N., MA MOL PhD Reader
Sanjeevi, N., MA Lectr
Sundaram, M, BOL MA MLitt (at Madurai Centre) Lectr

Kannada

Marappa Bhat, M, MA LT Prof.
Shankar Kedilaya, A, MA BT Lectr

Malayalam

Krishnan Nayar, S, MA PhD Reader
Ezhuthachan, K N, MA Lectr

Telugu

Venkata Rao, N, MA Reader
Ramakrishna Sastry, S, MA BOL Lectr.

ADMINISTRATIVE AND OTHER STAFF

Ast. Registrar P. S Vaidyanathan, BA
DCom Sec., Students' Information Bureau :

G. Dharmarajan, MA Oron. Med. Officer C
Rajasekara Reddy, MS.

CONSTITUENT POSTGRADUATE COLLEGES

MADRAS, *Loyola College*, Madras, 6 (tel. 86894) (Recognized in postgrad courses in econ, maths, chem and comm). Principal—Rev Fr Siqueira, MA Profs and Lectrs BOT—R Rama Rao, BA BSc BT, T S P. Sundararaj, MA MSc CHEM—Rev L M Yeddapanalle, MSc Calc, DSc Prim., PhD; N S Gnanapragasam, MA MSc Calc COMM—G Soundararajan, BA BL, D V Krishnamurti, BA LLB ECON AND HIST—S Rajendran, BA LT, A V Devasia, MA ENGL—Rev. Fr Siqueira, MA MALAYALAM—K. N Sankaran Unni, MA FRENCH—Rev Amescua LOGIC—Rev. Fr. Alappat, Rev. A M Antonyswami MATHS—Rev C Racine, DSc; K A Adivarahan, MA. PHYS.—C Ouseph, BSc; V V Kunjuvaried, MSc; A Mahimadoss, MA SANSK.—P. F Davis, MA MLitt TAMIL—M S Arulswami, MA ZOOL.—T N Ananthakrishnan, BSc 85 other Teachers

MADRAS, *Pachaiyappa's College*, Madras, 30 (tel.: 61344) (Recognized in postgrad courses in econ, hist, maths, philos, comm, Tamil, Telugu) Principal—C D Rajeswaran, BSc (Econ) Lond. Profs and Asst Profs BOT—V S. Sundaralingam, MSc CHEM—P Bhasakarapattikar, MSc COMM.—P R Sundararajan, MA LT MCom BOON—A Muthiah, MA ENGL.—R. Krishnamurti, MA; W V Venkata Rao, MA FRENCH—M S. Jothi, MA HIST—T K Venkataraman, MA LT TAMIL—M Varadarajan, MOL PhD. TELUGU—S Ramalinga

Sastri HINDI—P V Chalapatteeswara Rao, MA SANSK—A S Mudaliar, MA MATHS—T S Sankaranarayana Pillai, MA, K Naresimhachari, MA, A Ramanathan, MA PHILOS—P C Munuswamy, MA. PHYS—V P. N Nambiar, MA ZOOL—J P. Balasingh 106 other Teachers

MADRAS, *Presidency College*, Madras, 5 (tel. 86188) (Recognized in postgrad courses in bot, chem, econ, Engl lang & lit, geog, geol, hist, maths, phys, pol, psychol, Sansk., Tamil, Telugu, zool) Principal—T R Govindachari, MSc PhD, FNI. Profs. BOT—B G L Swamy, DSc CHEM—T R. Govindachari, MSc PhD, FNI ECON—S Velayudham, MA LT ENGL—S Ramaswami, MA GEOG—N Ananthapadmanabhan, BSc GEOL—P S G Dowie, MA HIST—Mrs L Kallianikutty Amma, MA LT. MATHS AND STATISTICS—P. V Abdurahman, MA BT PhD PHYS—S Ramamuthy, BSc LT SANSK.—Thirugnanasambandam, MA LT. TAMIL—G Govindarajan, BSc LT TELUGU—D Chinnakushniah, BA ZOOL.—P. Kochukutta Menon, MA LT 125 other Teachers

MADRAS, *Queen Mary's College* (tel. 84115). (Recognized in postgrad course in geog.) Principal—Miss A. R Iravathi, BA BEd PhD. ENGL.—Miss L Thomas, MA LT TAMIL—Miss R. Rajamani, BA LT TELUGU—Miss Y Sarojini, MA SANSK—Mrs K S Unni, BA LT FRENCH—Mrs D. Stuart, BA LT HINDI—Mrs P. Mandakini Bai, MA ECON—Mrs Mahamooda

Khadi, MA LOGIC—Miss R Kalpagam, MA.
GEOG.—Mrs R Radha, MA LT MATHS—L
Dorapandian, BSc CHEM—Miss C Kumala,
BSc BT. PHYS.—P Ranganayaki, BSc NAT
SCI—Miss A K Joshua, BSc INDIAN MUSIC—
Mrs S Pavathy, MLitt LT HOMER SCI AND
HOUSEHOLD ART—Mrs Stella Soundararajan,
MSc 64 other Teachers

MADRAS, *Stella Maris College* (tdl 71503)
(Recognized in postgrad courses in econ, Engl,
Indian music) Principal and FRENCH—Rev
Mother M Proinsias, MA Calc CHEM—Miss S
Visalakshi, MSc BT DOON—Rev M M C
Rosa, PhD, Rev M M Sylvester, MA ENGL—
Rev M M L Teresa, BA Boston, Rev M M
Ria MA HINDI—Miss K Rajeswari, MA
MATHS—Rev M M. Magdalene, BA INDIAN
AND WESTERN MUSIC—Rev M M David, Miss
S Seetha, BA MLitt ZOOL—Rev M M. Edwin,
BA BSc 48 other Teachers

MADRAS, *Vivekananda College* (tel 71057)
(Recognized in postgrad courses in maths, chem,
philos., Sansk and econ) Principal—T. R.
Raghava Sastri, MA ENGL—G N Seshadri,
MA LT MATHS—S Narayanan, MA; T R
Raghava Sastri, MA PHILOS—S Rajagopala
Sastri, MA LT PHYS.—M Narayanaswami,

MA SANSK—V S V Chari, MA BOL BT
TAMIL—C Jagannathachari, MA LT TELUGU—
N Bhaktavatsalam, MA BOL HINDI—K M.
Sridar, MA CHEM—P. C Ramachandran, MA
BOT—G Venkataraman, MA MSc LT ECON—
K Vasudevan, MA HIST—R S Chakravathy,
MA BL COMM—A D Reddy, BA LT 74
other Teachers

MADRAS, *Women's Christian College* (tel
86798) (Recognized in postgrad course in home
sci) Principal—Miss Renuka Mukerji, MA
ENGL—B M Corfield, MA PhD BS BOT—
A T. Zachariah, MSc PhD, Miss S Murthy,
MSc MA. CIEM—P V Stage, BA PhD, Mrs
A Kamatchi, MSc GEOG—Miss Renuka
Mukerji, MA HIST—Miss V Augustus, MA.
PHILOS—Miss P Devanar, MS Tennessee, MA,
Miss I Srinivasan, MA PHYS—S S Edwards,
MA PhD, Miss A Mathews, MSc TAMIL—
Miss M Masilamani, MA LT TELUGU—Mrs.
M Subasini, MA, Miss C Manoja, BA BT.
SANSK—Miss K Janamma, BA HINDI—Mrs. P.
Naidu, MA HOME SCI—R Arulanantham, MSc
PhD CHEM, F A Farmer, MSc PhD BHS BS
ZOOL—Miss R Philip, MA LT, Miss M
Poonan, MA 39 other Teachers

AFFILIATED POSTGRADUATE COLLEGES

KARAIKUDI, *Alagappa College* (Recognized
in postgrad course in Tamil) Principal—
A Gnanamuttu, MA BOT—S Doraswamy,
MA MSc CHEM—S Lakshminarayan, MA LT.
ENGL—A Gnanamuttu, MA, K P K Menon,
MA PhD ECON—R M Ramanathan, BA
MATHS—N Sethuraman, BSc LT PHYS—
K G Krishnan, BSc ZOOL—J Samuel Raj,
MA MSc TAMIL—V. S. P Manickam, MA
MOL SANSK—A V. N Sarma, BA HINDI—
M G V Krishnan, MA BOL 12 Profs, 44
Lectrs., 21 other Teachers

MADURAI, *American College* (Recognized in
postgrad courses in chem, zool.) Principal—
S J. Savarirayan, MA. BOT—C R Narayanan,
BA CHEM—M Lakshmanan, MSc LT ENGL
—Rev F Jacob, MA; Rev A G Samuel, MA
BD ECON—S Sundararajan, MA MLitt
MATHS—T Natarajan, MA PHYS—S J
Savarirayan, MA, E S Moses, MA ZOOL—
S Abraham, MA LT, Dr C J George, DIC,
BA 11 Profs, 32 Lectrs, 22 other Teachers.

MADURAI, *Madura College* (Recognized in
postgrad courses in maths, phys. and chem)
Principal—T. T Ayyangar, MA BOT—T R.
Purushothaman, MA CHEM—S Krishnamurthy,
MSc ENGL—T S Devanarayana, BA ECON.
—P S Ramaswami, MA MATHS—T. T.
Ayyangar, MA; S Subramanian, MA PHYS—
P. S Varadachari, MA MSc, K S Venkatesan,
MA ZOOL—R Krishnan Iyer, MA TAMIL—
R Krishnamurthy, MA LT SANSK—G. K R.

Subrahmanya Sastri, MA HINDI—T Seshadri,
MA 10 Profs, 35 Lectrs, 24 other Teachers

MADURAI, *Thiagaraja College* (Recognized
in postgrad courses in Tamil, econ, Engl)
Principal—G Varadachari, MA CHEM—T.
Sakthivelu, MA ENGL—G Varadachari, MA.
ECON—S V Vaidyanath, MA. HIST—K S
Sivaraman, MA MATHS—V Seetharaman, MA
MSc PhD PHYS—V R Ramanathan, MSc
PhD ZOOL—T. TAMIL—S Ilakkuvanar,
MA. 38 Lectrs, 21 other Teachers.

NAGERCOIL, *S T. Hindu College*. (Recognized
in postgrad. course in Tamil) Principal—N
Ananthavaidyanathan, MA CHEM—N. Ananthavaidyanathan, MA ENGL—P R. Ananthanarayana, BA ECON.—C. A. Saldanha, MA.
MATHS.—S. S Mani, MA. PHYS.—D. Parameswaran, MSc. ZOOL.—C. Kumara Pillai, MA.
TAMIL—E. V. Moni, MA 23 Lectrs., 17 other
Teachers.

TAMBARAM, *Madras Christian College*. (Recognized in postgrad. courses in Engl lang & lit., hist. & econ, maths, philos., phys., chem, bot. and zool.) Principal—Rev. J. R. Macphail, MA DD Profs. BOT—K R. Venkatesubban, MSc PhD CHEM—S V Anantakrishnan, MA PhD. ENGL. LANG AND LIT.—Rev J R Macphail, MA DD; A Bennett, BA. ECON—J M Heale, BSc Lond HIST—C D. S. Devancsan, MA Camb. MATHS—W F Kibble, MA PhD Edm. PHILOS—C T Krishnamachari, MA PhD

PHYS.—M A Thangaraj, MA PhD *Tor Zool* — J P Joshua, MA PhD *Lsu Sansk.*—U Venkatakrishna Rao, MA *MALAYALAM*—E K. Putushothaman, MA *TAMIL*—P A Chettiar, MA *TELUUGU*—P R P Francis, MA 83 other Teachers.

THIRUCHIRAPPALLI, *St Joseph's College* (Affiliated in hons. courses in econ, hist, maths, phys, chem, bot) Principal—Rev X Ehrhart, MA *Camb* Profs *BOT*—Rev L M Balam, MA

CHEM—M Piakasa Reddy, MSc PhD, C K Ramakrishnan, MA *ENGL.*—Rev. L Sundaram, BA *HIST* AND *ECON*—Rev J Adisayam, BA, M D Varkey, MA, Rev X Ehrhart, MA *Camb*, T Srinivasan, MA *LT*; A Hirudayaswami, MA *BL LOGIC*—Rev S Thomas, PhD *MATHS*—Rev A Gonsalves, MA; S Srinivasan, BA *PHYS*—P R Subrahmanyam, MA, N Anantakrishnan, MA *FRENCH*—Rev. A Fays *MALAYALAM*—T K Devassis, MA *TAMIL*—R Mascarenhas, MA 81 other Teachers

CONSTITUENT FIRST GRADE COLLEGES

[Pre-Univ., BA, etc., after the name of a coll means that courses are provided there for Pre-Univ., BA, etc.]

MADRAS, *Agurechand Mamnall Jain College* Pre-Univ., BA, BSc, BCom Principal—A L Krishnan, BA 6 Profs and 69 other Teachers

MADRAS, *Ethiray College for Women* Pre-Univ., BA, BSc. Principal—Miss E. Mathew, MA 5 Profs and 44 other Teachers

MADRAS, *Gout. Arts College* Pre-Univ., BA, BSc. Principal—S. Yakub, MA *LT* 10 Lectrs and 72 other Teachers

MADRAS (ROYAPETTAI), *The New College*

Pre-Univ., BA, BSc. Principal—A J Syed Abdul Wahab Sahib Bukhari, MA *LT* 8 Profs and 46 other Teachers

MADRAS, *Sir Theaganaya College* Pre-Univ., Pre-Med, BA, BSc Principal—K Rajagopalan, MA *LT* 7 Profs and 49 other Teachers

MADRAS (Teynampet), *SIET Women's College* Pre-Univ., BA, BSc, MSc(HomeSci) Principal—Miss Vinaya Koman, MA *LT*. 3 Profs and 54 other Teachers

AFFILIATED FIRST GRADE COLLEGES

ADIRAMPATTINAM, *KM College* Pre-Univ., BA, BSc Principal—T Dhanakoti, MA 3 Profs, 12 Lectrs and 6 other Teachers.

COIMBATORE, *Gout College* Pre-Univ., BA, BSc, BCom Principal—T Muriappan, BSc MA *MS* 10 Profs, 45 Lectrs and 26 other Teachers.

COIMBATORE, *Home Science College* Pre-Univ., BA, BSc Principal—Mrs Rajammal P Devadas, MA *MSc PhD* 4 Profs, 18 Lectrs and 12 other Teachers

COIMBATORE, *Namala College* Pre-Univ., BA, BSc Principal— . . 1 Prof, 19 Lectrs and 3 other Teachers

COIMBATORE, *P S G Arts College* Pre-Univ., BA, BSc Principal—B R Krishnamurti, MA *LT*. 8 Profs, 33 Lectrs and 18 other Teachers

ERODE, *Mahayana College*. Pre-Univ., BA, BSc Principal—J Renga Ayyangar, BA 4 Profs, 13 Lectrs, 7 other Teachers.

KANCHEEPURAM, *Pachayappa's College* Pre-Univ., BA, BSc Principal—S. Sivasubrahmanyam, BSc 2 Profs, 15 Lectrs, 4 other Teachers.

KATPADI, *Auxilium College* Pre-Univ., BA, BSc Principal—Sister Juliana Fernandez, MA *BT*. 5 Profs, 12 Lectrs, 11 other Teachers

KUMBakonam, *Gout College* Pre-Univ., BA, BSc Principal—M S Hussain, MA *BT* 6 Profs, 34 Lectrs and 23 other Teachers.

MADURAI, *Fatima College* Pre-Univ., BA, BSc Principal—Miss N Shakunthala, MA 7 Profs, 25 Lectrs, 12 other Teachers.

MADURAI, *Lady Doak College* Pre-Univ., BA, BSc, MA Principal—Miss G Gnanadickam, MA *LT* 9 Profs, 24 Lectrs and 12 other Teachers

MAYURAM, *A V C College*. Pre-Univ., BA, BSc Principal—M Viswanathan, MA 4 Profs, 16 Lectrs and 13 other Teachers

NAGERCOIL, *Scott Christian College* Pre-Univ., BA, BSc Principal—B Arumai Raj, MA 6 Profs, 31 Lectrs, 18 other Teachers

OOTACAMUND, *Gout. Arts College* Pre-Univ., BA, BSc. Principal—A. Rajakanun Mudaliar, MA *BOL LT* 1 Prof, 5 Lectrs., 25 other Teachers

PALAMCOTTAH, *St John's College* Pre-Univ., BA, BSc Principal—J Vedastramani, MA *BL* 7 Profs, 23 Lectrs and 15 other Teachers

PALAMCOTTAH, *St Xavier's College* Pre-Univ., BA, BSc Principal—Rev K A Soosai, MA. 6 Profs, 30 Lectrs and 30 other Teachers

PALAMCOTTAH, *Sarah Tucker College*. Pre-Univ., BA, BSc Principal—Dora David, MA *BT* 5 Profs, 17 Lectrs and 11 other Teachers

PALANI, *St. Palani Andavar College of Oriental Culture* BA Principal—S Arumuga Mudaliar, MA *BOL LT* 4 other Teachers

POLLACHI, *Nallamuthu Gounder Municipal*

College Pre-Univ, BA, BSc Principal—M. Alkondan, MA 4 Profs and 17 other Teachers

POONDI (Tanjore District), *Sri Pushpam College* Pre-Univ, BA, BSc Principal—O R Suryanarayana, MA 4 Profs, 14 Lectrs, 10 other Teachers

PUDUKOTTAI, *The Raja's College* Pre-Univ, BA, BSc, BCom Principal—C V Ranganatha Sastry 5 Profs., 27 Lectrs. and 13 other Teachers

SALEM, *Gout College*. Pre-Univ, BA, BSc. Principal—V A Nair, MA 5 Profs, 25 Lectrs and 14 other Teachers

SIVAGANGA, *Rajah Doraswingham Memorial College*. Pre-Univ, BA, BSc Principal—B S Dhandapani, MA. 4 Profs., 14 Lectrs and 8 other Teachers

TANJORE, *Rajah Seifaj College* Pre-Univ, BA, BSc Principal—T Murugayan, MA. 5 Profs, 23 Lectrs., 15 other Teachers

TIRUCHIRAPALLI, *Holy Cross College* Pre-Univ, BA, BSc Principal—Sister Philomena, MA 7 Profs, 26 Lectrs. and 12 other Teachers.

TIRUCHIRAPALLI, *Jamal Mohamed College* Pre-Univ, BA, BCom Principal—M J M Sayeed, MA LT. 9 Profs, 29 Lectrs and 23 other Teachers

TIRUCHIRAPALLI, *National College* Pre-Univ, BA, BCom Principal—M K Venkatramanan, MA 8 Profs and 32 other Teachers

TIRUCHIRAPALLI, *Seethalakshmi Ramaswami College* Pre-Univ, BA, BSc. Principal—Miss V Kamakshi, MA BT 26 other Teachers

TIRUNELVELI, *M D T. Hindu College* Pre-Univ, BA, BSc Principal—S Somasundaram, MA LT. 6 Profs and 33 other Teachers

TIRUPATTUR, *Sacred Heart College* Pre-Univ, BSc Principal—Rev J Murphy, MA 4 Profs and 22 other Teachers

TUTICORIN, *St. Mary's College* Pre-Univ, BA. Principal—Sister Teresta Mary, MA BT. 5 Profs and 24 other Teachers

TUTICORIN, *V O Chidambaram College* Pre-Univ, BA, BSc Principal—A Sinnivasaragavan, MA 8 Profs. and 44 other Teachers

UDAMALPET, *G V G Visalakshi College for Women* Pre-Univ, BA, BSc Principal—Miss Padmini Adinieshiyah, MA LT. 23 other Teachers.

UTHAMAPALAYAM, *H. K R Howthia College* Pre-Univ, BA, BSc Principal—I Absalom, MA 4 Profs., 14 Lectrs, 5 other Teachers

VANIYAMBADI, *Islamicah College* Pre-Univ, BA, BSc, BCom Principal—M A Rahim, MA BT PhD. 6 Profs and 32 other Teachers.

VELLORE (N A District), *Voorhees College*. Pre-Univ, BA, BSc. Principal—Rev A N. Gopal, MA DD 5 Profs, 21 Lectrs, 19 other Teachers

VIRUDHUNAGAR, *Senthukumar Nadar College* Pre-Univ, BA, BSc, BCom Principal—P Thanagayan, MA .7 Profs. and 51 other Teachers.

CONSTITUENT PROFESSIONAL COLLEGES

Engineering

GUINDY, *College of Engineering* BE, MSc (Engg) Principal—P Rajagopal Pillai, BA, MIE(India) Profs CIVIL ENGIN—V Kalyanaraman, MAsc Tor., BE, T S Venkateramana, BA BE ELECTR. ENGIN—A Srinivasan, BE

MSc, N Subbian, MA MECH ENGIN—A P Jambulingam, MSc BE(Mech) TELECOMM ENGIN—K S Hegde, BE MA. 14 Profs, 34 Lectrs. and 65 other Teachers

Law

MADRAS, *Law College* BL, Dir. of Legal Studies—A S P Ayyar, MA Profs. C Rajaram, MA LLB, A. Palanisamy, BA ML,

V. Balasubramanyam, BSc ML, Mrs. Monica E. David, BA MEd ML. 14 other Teachers.

Medicine

MADRAS, *Medical College* MB BS, MD, MS, BSc, BDS and diploma courses Dean—K. G. Krishna Swamy, MB MS. Profs and Teachers: ANAESTHESIA—V. Rajagopallan, MB BS. ANAT—M. M Cooper, MB BS MSc BACTERIOL.—N R. Ratnakannan, MB BS BIOCHEM.—N. Verghese, MB BS MSc DENT SURG.—K Ramachandarn, BSc BDS EAR, NOSE AND THROAT—C Satyanarayana, MB MS DLO. HYG.—H. Moses, MB

BS BSc MSc DTM MPH. INFECT. DIS—A. Hadi, MB BS. MED JURISP—K C Jacob, MD. MED—R Subramanian, MD, MRCP MENTAL DIS—T George, MB BS DPH OBSTET, GYNÆCOL. AND DIS. OF CHILDREN—M K Krishna Menon, BA MD DGO OPHTHALMOL.—T. T Ramalingam, MB MS DO ORTHOPÆDICS—M. Natarajan, BA MB BS MCh, FRCS. PATHOL—S P. Vedachalam, MD MS PHARMACEUTICS—

K S Srinivasavaradhan, MSc LT MA PHARMACOL—A. R. Govinda Rao, MB MS PHYSIOL—K P Anandan, MB BS MSc RADIOL—K M Rai, MB BS, FRCS SURG—G Atmarajna Rao, MB MS TUBERCULOSIS—M A Hameed, MD VENEREAL DIS—P N Rangiah, MD

MADRAS (Royapuram), *Stanley Medical College* (tel. 4985). MB BS, MD, MS Dean—S Balasubramanian, MB MS ANAESTHESIA—V Subbaraman, BA MB BS DA ANAT—T Janardham, MB BS MSc BACTERIOL—S Sub-

ramaniam, MD BS DBact BIOCHEM—A N Ramanathan, MB BS MSc DERMATOL—M. Natarajan, MB BS EAR, NOSE AND THROAT—Miss C M Leelavathi, MD MS DLO. HYG—M K Jacob, MB BS MED—K V Thiruvengadam, BSc MD BS OBSTET AND GYNÆCOL—W J C Rebello, MB BS DGO OPHTHALMOL—V. Rangachari, MB BS DO PATHOL—Mrs V C Angeli, MD PHARMACOL—T R Krishnamoorthy, MB BS MSc PHYSIOL—Mrs Saiada Subramanian, MB BS MSc RADIOL—A N K Menon, MS SURG—K C Nambiar, FRCS 113 other Assts, Tutors, etc

Teaching

MADRAS, *Lady Willington Training College* BT, MEd Principal—Miss S Pankajam, MA LT Miss K Jagathambal, BA LT 13 other Teachers.

MADRAS, *Meston Training College* (tel. 84584). BT, MEd. • Principal—D T. Chiranjivi, MA MEd Other Profs R. J Victor, MA MEd, A M Satya, MA MEd 5 other Teachers.

MADRAS, *St. Christopher's Training College* (tel. 4077) BT, MEd Principal—Miss G R Samuel, MA Redlands, MS Calif., LT Prof Mrs H S Charles, MA LT 11 other Teachers

SAIDAPET, *Teachers' College* (tel. 88289) BT, MEd Principal—M R P Mudaliar, MA LT Prof A E Subramanian, BA LT 17 other Teachers

Veterinary

MADRAS, *Madras Veterinary College* (tel. 3212). BVSc Principal—B A D'Souza, BVSc MS, ANAT.—G Lakshminarasimhan ANIMAL GENETICS—M. Dharmarajan, MA MSc PhD Liv. ANIMAL HUSB—A R Vedanayagam, BVSc ANIMAL NUTRITION—G Venkatachalam, BVSc

MS PhD HYG—R D Michael, BVSc PARASITOL—M. Anantharaman, MSc; V S Alwar, BVSc BACTERIOL—V K Menon, BVSc DSc PATHOL—S Demodaran, BVSc PHARMACOL—C K Velayudham SURG—F D Wilson, BVSc 83 Asst Lectrs

AFFILIATED PROFESSIONAL COLLEGES

Agriculture

COIMBATORE, *Agricultural College* BSc(Ag), MSc, PhD, dipl in hort. Dean—S Krishnamurthy, BSc(Ag) MSc PhD Lectrs AGRIC.—T Natarajan, BA BSc(Ag) AGRON.—S Krishnaswamy, BSc BVSc 301—D Daniel

Sunderaraj, MSc PhD CHEM—T N Anantha Narayanan, MSc ENGIN—S E Anantharaman, BE HORTIC—J Samuel Sunderaraj, BSc(Ag) DIH 77 Assts.

Engineering

COIMBATORE, *Govt College of Technology* BE. Principal—N. S. Krishnaswami, BE. Other Profs. CIVIL ENGIN—P R Ramaswami, BSc MSc ELECTR. ENGIN—K S Bhikshandeswari, BSc MECH ENGIN—K A. Nair, BE 12 Lectrs and 44 Assts

COIMBATORE, *Institute of Technology*. BE Principal—P R Ramkrishna, BSc MS MBA ELECTR ENGIN—R G Janakraman, BE MSc. MECH ENGIN—K. P Giri, BE MATHS—G V K Reddy, MSc. 14 Lectrs and 29 other Teachers.

KARAIKUDI, *Dr. Alagappa Chettiar College of Engineering & Technology*. BE Principal—D S. Venkanna, BSc BE. 67 other Teachers

PEELAMEDU (Coimbatore District), *P. S. G. & Sons Charities College of Technology* BE. Principal—G R Damodaran, BSc(Elect) BSc(Mech) Durh CIVIL ENGIN—K Subbiah, BE MSc (Tech). ELECTR ENGIN.—R Subbayan, MA MSc MATHS—B Rameswara Rao, MSc PhD MECH. ENGIN.—G Shanmugan, BE DSS MS 12 Lectrs and 21 other Assts

Medicine

MADURAI, *Madurai Medical College* MB BS. Principal—V. Gnanadickam, MD BIOCHEM.—T M B Nedungadi, MB BS MSc PHYSIOL.—H. D. Singh, MB BS MSc 91 other Teachers

PONDICHERRY, *Medical College* MB BS. Principal—S G Vengsarkar, MD BS, 72 other Teachers

VELLORE, *Christian Medical College* MB BS, MD, MS Principal—P W Brand, MB BS, FRCS ANÆSTHESIA—Gwendra M. Lewis, BSc MB BCh Wales, FFARCS ANAT—Doris L

Graham, MD *Dub.* BACTERIOL.—Ruth M. Meyers, PhD *Chic* EAR, NOSE AND THROAT—A J Patt, MD MS MED—P Koshy, MD BS NEUROL. AND NEURO-SURG—J Chandy, MB BS MSc, FRCS, FACS OBSITT. AND GYNÆCOL.—D Paranjothy, MB BS DGO DTM LM OPHTHALMOL—E Roy, MB BS PATHOL.—E W Gault, BSc MD MS, FACS. PHARMACOL.— . . . PHYSIOL—D M. Jefferson, BA MD MSc *Manc* RADIOL—Ida B S Scudder, DMRE *Camb*, BA MD SURG.—J S Carman, AB MD, FRCS 110 Assis.

Nursing

VELLORE, *School of Nursing* BSc(Nursing). Dean—Florence Taylor, MA MSc. 65 other Assts.

Teaching

COIMBATORE, *Govt Training College for Women*. BT Principal—Mrs N Sthanmugasundaram, MA LT 9 other Teachers

KARAIKUDI, *Dr. Alagappa Chettiar Training College* BT Principal—P. Durakannoo, MA LT. Profs S Thiruvengkatachari, MA MEd, V N. Subrahmanyam, BA LT. 8 other Teachers.

KOMARAPALAYAM, *Govt. Training College* BT Principal—G Govindarajan, MA BT 8 other Teachers

MADURAI, *Thiagarajar College of Preceptors*. BT Principal—S. A. Jain, MA LT 11 other Teachers

ORATHANAD (Tanjore District), *Government Basic Training College* Basic BT Principal—R. Perumal, BA BT 9 other Teachers

PALAYAMKOTTAI, *St Ignatius' Training College* BT Principal—Mary Stephane, MA BT. 6 other Teachers

PALAYAMKOTTAI, *St Xavier's Training College* BT. Principal—Rev T Thundiyil, MEd Prof S A Pitchai, MA LT 6 other Teachers

PERIYANAICKENPALAYA (Coimbatore Dept.), *Sri Ramakrishna Vidyalaya Teachers' Training College* BT Principal—K Kulandavelu, MA BT. 9 other Teachers

PUDUKOTTAI, *Govt Training College*. BT. Principal—R Arumugam, MA LT 8 other Teachers.

TIRUPPAROVATHURI (Tiruchirappalli), *Vivekananda Training College* BT Principal—S Krishnan, MA LT 8 other Teachers

TUTICORIN, *V O Chidambaram Training College* BT Principal—S Isaac, MA LT 7 other Teachers

VELLORE, *Govt Training College*. BT Principal—H. S S Lawrence, MA EdD Col. 9 other Teachers

APPROVED INSTITUTIONS

Fine Arts

MADRAS, *Kalahshetra*, Adyar. Recognized for Sangita Siromani course. Principal— 5 other Teachers.

Oriental Learning

Three institutions in Madras and 14 in the Mofussil are recognized as qualified to provide instruction for the Oriental Titles.

Physical Education

KARAIKUDI, *Alagappa Chettiar College of Physical Education* Recognized for dipl course in phys. educn (DipPE) Principal—M Robson, BA Trav., MPE Springfield 5 other Teachers

MADRAS (Saidapet), *Y M C.A. College of Physical Education* Recognized for dipl. course in phys educn (DipPE). Principal—S. P. Chopde, BA MPE Springfield. 4 other Teachers

GENERAL INFORMATION

Founded in 1857, the univ continued to be an examining body till the early part of this century, when it took up also res and teaching functions. This was given an impetus by the report of the Sadir Commission, and later by the Madras Univ Act of 1923, which clearly laid down that the univ would take up the devel. of res. and teaching depts. The univ. is federal, catering for postgrad studies, and exercising control over the quality of the teaching given by its constituent and affiliated colls. Colls. within a radius of 10 mls of the univ are known as constituent colls, the affiliated colls are spread over the different parts of Madras State. The univ at present has 30 teaching and res depts comprising almost all the facs. Postgrad teaching has also been organized on an inter-collegiate univ co-operation basis.

CONSTITUTION The authorities of the univ consist of the senate, academic council, syndicate, facs, and bds of studies. The senate is democratic in constitution and is representative of the colls, registered grads, legislature, local bodies, and certain learned socs and assocns. This is the supreme governing body which considers the annual report and budget and frames statutes. The academic council is the supreme authority which regulates courses of studies and standards of exams., and in general deals with all academic matters which emanate from the syndicate or the bds of studies. The facs consist of members of the academic council who are assigned to them, and the hds. of the univ depts. These facs generally advise the syndicate on matters referred to it. The bds. of studies form the primary academic body. For each suby of study, a bd is constituted consisting of the univ hd of the dept, and profs. drawn from the different colls. These bds meet twice a yr and advise the syndicate and academic council on courses of studies, prescription of textbooks, and the panel of examiners, they report also on matters academic referred to them. These recommendations invariably come up before the academic council and before the syndicate. The syndicate is the executive authority which consists of the vice-chancellor, the dir of public instrcn. of Madras State, certain members elected by the senate and the academic council, and 3 members nominated by the chancellor. It meets monthly to consider matters pertaining to the admin. of the univ. The vice-chancellor, a full-time salaried officer, is the chief executive officer of the univ. The registrar is sec of the syndicate and the authorities of the univ, and carries out the various decisions of the authorities.

FACULTIES AND PRESIDENTS. *Agric*—Dean S Krishnamurthy, *arts*—, *comm*—Prof. G. V. Krishna Rao (bus admin); *engin*—Principal P Rajagopal Pillai, *fine arts*—, *law*—A. S. P. Ayyar; *med*—Dean S Balasubramanian, *oriental learning*—, *sci*—

Principal S. J. Savarirayan, *teaching*—Principal P. Doraisannoo, *technol*—Dr G. S. Laddha (chem engin), *vet sci*—Principal B. A. D'Souza.

LABORATORIES Biochem, bot, geol, org chem, phys, phys chem, textile technol., zool.

ADMISSION The min qualif for entrance to the pre-univ course is the matric exam or such other exams held under the auspices of a univ or public body as are recog by the univ, or the cert issued under the S.S.L.C scheme in accordance with rules framed by the univ. Except for *bona fide* teachers in instns within the univ area, candidates are not admitted to any of the exams without undergoing the prescribed course of study in a coll.

FIRST DEGREES (*=integrated course) BA, BSc, BSc(HomeSci), BCom, 3 yrs after pre-univ, BSc(Ag)*, BPharm, 4 yrs after pre-univ, BSc(Nursing), 4 yrs after matric, BTech, BDS*, 5 yrs after pre-univ, BArch, BE*, 5 yrs after pre-univ, BVSc, 5 yrs 1 term after pre-univ, BIM (Indian med), 5 yrs after inter or pre-professional, MB BS*, 6½ yrs after pre-univ Postgrad. BT, BLabSc, 1 yr, BSSc (san sci), 1 yr after MB BS, BL, 2 yrs.

HIGHER DEGREES MEd, 1 yr after BT, MSc (Engg), 1 yr after BE, MA, 2 yrs. after BA, BSc, MSc (by exam), MSc, 2 yrs after BSc, MSc (HomeSci), 2 yrs after BSc(HomeSci), MCom, 2 yrs after BCom, MLitt, 1 yr after BA (hons) or MA (old regn), ML, 2 yrs after BL, MD, MS, each 3 yrs after MB BS (integrated course); MVSc, 2 yrs after BVSc, PhD in all facs, not less than 3 yrs from graduation, DLitt, 2 yrs after PhD, LLD, 5 yrs after BL, 1 yr after ML.

DIPLOMAS Postgrad. Analyt chem, anthropol, criminol & forensic sci., journalism, phys educn, soc service, anaesthesia, child health, clin pathol, dermatol, gynaeol & obstet., ophthalmol, orthopaedics, oto-rhino-laryngol, radiol, tuberculosis, venereol., 1 yr, archmol, econ., 2 yrs, stats, 2 yrs. Other hortie, mod European langs (French & German), 1 yr., Indian music, pol. & pub admin, 2 yrs, business management, 3 yrs.

CERTIFICATES French, German, 1 yr; librarianship, 3 mos.

ORIENTAL TITLES. Siromani, Vidvan, Afzal-ul-Ulama, Munshi-i-Fazil, Adib-i-Fazil, Tabib-i-Kamil, Afzal-ul-Attibba, Malpan and Soppar, Sangra Siromani (4 yrs).

RECOGNITION of exams of other univs. is not granted in general terms. The syndicate deals with each applicn. on its merits.

FEES for univ exams range from Rs 5 to Rs 250. Fees levied by colls vary from Rs 42 to Rs 80 per term, according to courses. Fees levied by the univ. for dipl courses vary from Rs 15 to Rs. 100.

ACADEMIC YEAR For colls affiliated or recog in arts, law, sci, teaching, 3 terms. Term dates (approx.) : June 25 to Sept 28, Oct 5 to Dec 23, Jan 6 to March 20.

The usual **LANGUAGE OF INSTRUCTION** is English with exception of some colls where Tamil is used for BA course in humanities

RESIDENCE, ETC. Min. cost of board and lodging for students living in European style, Rs 100 p.m.; Indian, Rs 60 p.m. A students' club provides inexpensive meals and facilities for games

and social intercourse irrespective of caste or creed

UNIVERSITY STUDENTS' UNION. Located in Madras for the benefit of students in constituent colls; facilities for games. The governing body consists of the principals of constituent colls

PUBLICATIONS *Calendar*—Vol. I, administration, statutes and ordinances, constituent and affiliated colls, endowments; Vols II and III, ordinances and regns, syllabuses; *Annual Report*, *Minutes* (of meetings of senate, academic council and syndicate); *Madras Univ Journal*, *Annals of Oriental Research*

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	43,612	332
Women	9,550	65
Total	53,162	397

Distribution by Faculties, etc *Agric*, 571, *archit*, 20, *arts & sci.* (incl. comm.), 40,232; *MSc* (by exam), 76, *engin*, 4305; *law*, 474, *med*, 3813, *nursing*, 55, *oriental learning*, 1020, *phys educn*, 55, *soc service*, 35, *teaching*, 1227, *technol*, 52, *vet sci*, 622 *Pre-professional*, 188 *Dipl & cert classes held in the univ*, 435

Included in the figures above are —

Pre-University students, 17,411

Postgraduate students, 1538

Students from other countries, 972. (Countries from which largest numbers came. Ceylon, 686, Malaya, 173)

DEGREES AWARDED (1960-61) ML, 2, BL, 493, MD, 25; MB BS, 349, BPharm, 12; BSc(Nursing), 16, BE, 490, BDS, 18, MSc, 55; BSc (hons), 122; BSc, 909, BSSc, 5, BVSc, 72, BSc(Tech), 47, BSc(Ag), 57; BCom (hons), 41, MEd, 20, BCom, 693, BT, 961, BT(Basic), 3, MLitt, 10, PhD, 29, MA, 595, BA (hons), 511, BA, 3619; BOL (hons), 1; BOL, 11, BA(war), 2

DIPLOMAS AWARDED (1960-61) Anthropol, 9; bus management, 18, econ, 3, French, 14, German, 39, Indian music, 10, journalism, 4, librarianship, 28, phys educn, 46; pol. & pub admin, 13; soc service, 18, stats, 4

CERTIFICATES AWARDED (1960-61) Anthropol, 6, French, 27, German, 42, librarianship, 20

MARATHWADA UNIVERSITY*

Founded 1958

Postal Address Aurangabad (Deccan), Maharashtra State, India
Cables and Telegrams Marathwada University, Aurangabad (Deccan)
Telephone 190

CHANCELLOR—H E, THE GOVERNOR OF MAHARASHTRA (*ex officio*)
 VICE-CHANCELLOR—S R DONGERKERY, BA LLB Bom.
 REGISTRAR—M B. CHITNIS, MA Bom.
 LIBRARIAN—N A GORE, MA Dip Lib Bom

TEACHING STAFF

Chemistry		Marathi Language and Literature	
	Prof	Kulkarni, W. L., MA Bom	Prof.
	Lectr.	Pathan, Y. M., MA BT PhD Poona	Lectr
	Lectr.	Rasal, S N, MA Osm	Lectr.
Economics		Zoology	
Borkar, V. V., MA PhD Bom	Prof.	..	Prof.
Ranbhise, N. P., MA Poona	Lectr	..	Lectr
Pande, V K, MA Nag & Allad.	Lectr	....	Lectr.

ADMINISTRATIVE AND OTHER STAFF

Ast Registrar (Admin) V K Dhamankar, BA BCom Poona Asst Librarian Sec ,
 MA Poona Ast Registrar (Exams). A D Extra-Mural Bd R S Gupte, MA Bom
 Chavan, MA Bom Accts Officer V B Wani,

AFFILIATED INSTITUTIONS

[Pre-Univ. after the name of a coll means that pre-univ courses are provided there, BA, BSc, etc, means that courses are provided there for BA, BSc, etc]

AURANGABAD, *Deogiri Arts & Science College* (1960) Pre-Univ, Pre-Professl, BA 1st yr Principal—A. N Chikhalikar, MA 11 other Teachers

AURANGABAD, *Dr Ambedkar College of Commerce* (1960) BCom Principal—R P Nath, MCom 9 other Teachers.

AURANGABAD, *Govt College of Arts & Science* (1924) Pre-Univ, Pre-Professl., BA, BSc Principal—M. G Deshmukh, MA PhD LLB Nag 39 other Teachers

AURANGABAD, *Govt College of Education* (1954) BEd Principal—N T Vartak, MSc MEd BT 8 other Teachers

AURANGABAD, *Govt College of Engineering* (1960) BE 1st yr. Principal—G P Nagarkar, BE(Civil) 6 other Teachers

AURANGABAD, *Govt Medical College* (1956) 2nd MB BS Principal—P M Bhandarkar, MS 22 other Teachers

AURANGABAD, *Manikchand Pahade Law College* (1956) LLB Principal—V Das, MA BL Calc 6 other Teachers

AURANGABAD, *Mahind Maha Vidyalyaya* (1950) Pre-Univ, Pre-Professl, BA, BSc Principal—M N Wankhade, MA 45 other Teachers

BHIL, *MSPM's Arts & Science College* (1960) Pre-Univ, BA 1st yr Actg Principal—Fazluddin, MSc 8 other Teachers

JALNA, *Arts & SBL Commerce College* (1958) Pre-Univ, BA 1st & 2nd yrs, BCom Principal—P M Sapre, MCom 8 other Teachers

* Member of the Association of Universities of the British Commonwealth

JALNA, *J S P M's Science College* (1960) Pre-Univ. (Scis) Principal—D S Yelkar, MSc 7 other Teachers

KANDHAR (Dist. Nanded), *S S M E S's Shri Shwaji Mofat College* (1959) Pre-Univ., BA 1st & 2nd yrs Principal—6 other Teachers

MOHINABAD, *Yogeshwari Arts & Science College* (1956) BSc Principal—M. D. Padhye, BCom MA 18 other Teachers

NANDED, *People's College* (1950) Pre-Univ., Pre-Professl, BA, BCom, BSc Principal—K. R. Shurwadkar, MA 27 other Teachers

OMERGA (Dist. Osmanabad), *Shri Chhatrapati Shwaji College* (1959) Pre-Univ., Pre-Professl, BA 1st & 2nd yrs, BSc 1st yr. Principal—M. V. Shingre, MSc 8 other Teachers

OSMANABAD, *S S V S S's BEd College* (1960) BEd Principal—M. D. Rane, MEd 5 other Teachers

OSMANABAD, *S S V S S's College of Arts* (1960). Pre-Univ., BA 1st yr. Principal—R. K. Kanbarkar, MA. 8 other Teachers

PARBHANI, *Govt College of Agriculture* (1956). BScAgric Principal—V. P. Gokhale, BAg MSc (Agr) 30 other Teachers.

GENERAL INFORMATION

The region comprising the districts of Aurangabad, Parbhani, Nanded, Bhur and Osmanabad is known as Marathwada and is now a unit of Maharashtra state. It formed a part of the former Hyderabad state and subsequently a unit of the reorganized Bombay state. For nearly a decade there was a demand for a separate univ for this region from the citizens of Marathwada. On the eve of the reorganization of states in India, the govt. of Hyderabad recommended to the successor govt. of Bombay the establt. of this univ. The govt. of Bombay accordingly appointed a cttee. on whose report the legislature passed the Marathwada University Act, 1958, to establt and incorporate a teaching and affiliating univ at Aurangabad. The act received the assent of the governor on May 5, 1958, and the univ was inaugurated by Mr. Nehru, the prime minister of India, on Aug. 23, 1958.

CONSTITUTION The main authorities of the univ are the court, the executive council, the academic council, the fcs, the bds of studies, the bd of univ teaching and the bd of extra-mural studies. The court is a body with wide powers, which include the taking of decisions on questions of the affiliation of colls, the establt. of depts, hostels and insts of 1es and specialized studies, the conferment of degrees, the instn. of teaching posts such as professorships, readerships and lectureships. The executive council is the executive authority of the univ, which is in charge of the day-to-day admin. The academic council has the control and general regn. of the maintenance of the standards of teaching and exams within the univ. The duties of the bds of studies are to recommend text-books, draw up courses of study in their respective depts, and panels of examiners, etc. The bd of univ teaching reports direct to the executive council regarding the conduct of all instructn., teaching, trg and res.

INCOME (1960-61) Rs 1,550,179 (exam & other fees, 18 per cent., state govt grant, 59 per cent., grants from U G C & govt of India, 21 per cent., musc., 2 per cent.)

FACULTIES AND DEANS Agric., Principal V. P.

Gokhale, arts, Prof. V. V. Borkar, comm., Principal R. P. Nath, educn., Principal N. T. Vartak, engin., Principal G. P. Nagarkar, law, Principal V. Des, med., Principal P. M. Bhandarkar, sci., B. R. Keshavan

UNIVERSITY PRECINCT. A portion of the site called the Soneri Mahal site, of about 700 acres, has been acquired for the univ campus near a historic monument called Bibi ka Maqbara, which is a replica of the Taj Mahal, at the foot of hills. At present, the office of the univ has been temporarily housed in a govt. bldg. in the town.

LIBRARY 58,000 vols.

LABORATORIES. No univ labs at present, post-grad teaching in scis being conducted in affiliated coll labs.

ADMISSION. Pre-univ courses, conducted in the affiliated colls, are of 1 yr's duration after the H S C (high sch cert.) exam or an exam approved as equivalent, and admit to the degree courses in arts, sci, comm., and to the pre-professl course leading to MB BS and civil engin courses.

FIRST DEGREES. 3 yrs after pre-univ—BA, BSc, BCom, 4 yrs after H S C—BScAgric, 3 yrs after 1-yr pre-professl course (with phys, chem, biol.) taken after pre-univ—2nd MB BS, 3 yrs after 1-yr pre-professl course (with phys, chem, maths, drawing) taken after pre-univ—BE.

HIGHER DEGREES BEd, 1 yr and L.L.B., 2 yrs from 1st degree, MA MSc, 2 yrs from 1st degree; PhD, 2 yrs from postgrad degree.

EXTERNAL DEGREES BA. External students (women, and persons gainfully employed within the Marathwada Univ area) may appear as private students for the pre-univ (humanities) and BA exams without attending lectures in a recog. instn. of the univ.

RESEARCH Depts. of econ. and Marathi provide res. facilities for students and themselves undertake res., e.g. the compilation of a Persian-Arabic-Turkish-Marathi dictionary and a study of the socio-econ. effects of the Poona project.

STUDY LEAVE. The exec council may grant study leave to univ. profs., readers or lectrs on such terms as it thinks fit.

FEES. Annual tuition fees . MA classes, Rs. 200 ; MSc classes, Rs 300. (Undergrad classes are conducted by the affiliated colls)

ACADEMIC YEAR June to April, 2 terms . June to Oct., Nov. to April. Vacation of 14 days in winter (Dec 24 to Jan. 6).

USUAL LANGUAGE OF INSTRUCTION. English

ADULT EDUCATION. With object of giving univ. educn. a rural and social orientation by taking univ. educn. to men and women denied opportunities for higher educn , the bd of extra-mural

studies provides adult educn. to students registered at centres opened by the bd. in rural areas (at present there are 18 centres), lectures are given by univ or coll teachers.

PRINCIPAL 'OPEN' AWARDS. Merit scholps awarded to students who obtain at least a 2nd class pass in the last qualifying exam for the 1st degree, value Rs 15 p.m. for sr classes, Rs. 10 p.m. for jr classes.

NATIONAL CADET CORPS TRAINING 8 detachments, 81 div , 11 troops, jr div

PUBLICATIONS *Annual Report* , *Univ Journal* , *Univ Handbook* (pt II-vol I), *Prospectuses* of all univ exams

THE YEAR 1960

NEW FACULTY Engin

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time*
Men	4366	685
Women	213	66
Total	4579	751

Distribution by Faculties *Agric* , 201 ; *arts*,

2229 ; *comm* , 460 , *educn* , 113 ; *engin* , 60 , *law*, 134 , *med* , 154 , *sci* , 1979 Total ' 5330

Included in the figures above are —

Pre-University students, 1466

Postgraduate students, 209.

New admissions, 1913

Students from other countries, 2

DEGREES AWARDED (1960-61) *Agric* BSc
Agri, 29. *Arts* BA, 238 *Comm* : BCom, 65
Educn BEd, 84 *Law* LLB, 93 *Sci* : BSc,
233

* 'Part-Time' refers to external students as defined on previous page

UNIVERSITY OF MYSORE*

Founded 1916

Postal Address: Mysore, Mysore State, South India

Cables and Telegrams Unireg, Mysore

Telephone: Mysore 677

CHANCELLOR—HIS HIGHNESS MAHARAJA SRI JAYACHAMARAJA WADIYAR BAHADUR OF MYSORE, GCB,
GCSI, Governor of Mysore

PRO-CHANCELLOR—ANNA RAO GANAMUKHI, BA LLB

VICE-CHANCELLOR—N. A. NIKAM, MA Camb

REGISTRAR—K. S. SIDDALINGAIAH, MSc PhD

CONTROLLER OF EXAMINATIONS—S. M. SADASHIVAIAH, MA LLB PhD

BURSAR—N. KRISHNAPPA, BA

LIBRARIAN—T. S. SHAMA RAO, MA

TEACHING STAFF

[(CC), (MCWB), etc = abbreviations for the names of univ, affiliated and intermediate
cols listed on pp 571-573]

Arabic, see Urdu

Botany

Narayan, K. N., MSc PhD Prof (MGM)
Nagaraj, M., MSc PhD Chnc Principal (SCS)
Kausik, S. B., DSc Reader (CC)
Annapurna Bai, Miss B. H., MSc
Reader (MCWB)

Chemistry

Narayan, G., MSc PhD Prof (CC)
Siddappa, S., MSc PhD Prof. (CC)
Shadaksharaswamy, M., MSc PhD Prof (CC)
Venkata Setty, T. H., DIC, BSc PhD Prof (CC)
Bhaskar, T. D., MSc MS Reader, Supt (ICK)
Lakshminaraniah, N., DIC, MSc PhD Lond
(on leave) Reader (CC)
Siddalingiah, K. S., MSc PhD Reader (MGM)
Adaveesia, C. N., MSc MS
(on leave) Reader (ICD)
Ratnamma, H., MSc Reader (MCWB)
Santhanam, K., MSc Reader (ICB)
Lakshminakanthan Setty, N. S., MSc
Reader (FGCT)
Mallikarjunappa, P., MSc Dir (Prasaraanga)
Madhuranath, M. K., MSc Reader (YCM)
Lakshminakanthan, Mrs. P., MSc
Reader (MCWB)
Venkatachala, S. V., MSc
Reader, Supt. (ICChik)
Shanke Gowda, H., DSc Reader (MGM)
Vrushabhendrapappa, G., MSc Reader (YCM)
Bheemasena Rao, M. R., MSc Reader (CC)

Survanarayana, C. V., MSc DPhil

Ramaiah, T. R., MSc PhD Reader (MGM)
Reader (MGM)

Commerce

Ramakrishna Reddy, G., MA PhD
Prof., Principal (ComC)
Rama Rao, S. L., BSc Lond. Principal (FGCChut)
Srinivasan, V., MA BCom Reader (ComC)
Krishnamurti, G. N., MA Reader (ComC)

Economics, see Hist., Econ and Pol. Sci.

Education

Rangachar, C., BSc MEd Leeds
Prof., Principal (TC)
Veerappa, N. S., BSc BT BEd Reader (MGM)

Engineering, see below

English

Narasimhaiah, C. D., MA Camb.
Prof., Principal (MC)
Singh, M. E. B., MA Camb. Prof (CC)
Nambiar, O. K., MA Prof (CC)
Shantaveerappa, S. N., MA Prof (MC)
Mulyil, Mrs. G., BA Reader (MCWB)
Srinivasa Rao, V., MA Reader (CC)
Wesley, B. C., MA Reader (FGCT)

* Member of the Association of Universities of the British Commonwealth

Rajasekhariah, T. R., MA
(on leave) Reader (CC)
Ramachandiah, N S, MA Supt (ICD)
Annaiah Gowda, H A, MA MLitt
Reader (MGM)
Puttamadappa, V, MA Reader (MCWM)
Gururaja Rao, R, MA Reader (MC)

French and German

Graefe, Mrs I., MA LT Reader (MCWB)

Geology and Geography

Ghori, G K, MSc PhD Lond. Prof (MC)
Srinivasa Rao, M R, MSc (Geol) Prof. (CC)
Visvanathaiah, M N, MSc PhD (Geol.) Prof (MGM)
Naidu, M G. C., MSc PhD (on leave) Reader (CC)
Ahmed, S N, MA LLB Reader (MC)
Govindarajulu, B V., MSc PhD (Geol) Reader (MGM)

Hindi

Nagappa, N, MA Reader (MGM)

History, Economics and Political Science

Huchappa, G T, MA PhD N Y (Econ) Prof (MGM)
Thotappa, K B Y, MA PhD Bom & Chic (Pol) Prof (MGM)

Readers

Pervathamma, H M, MA (Econ) (MCWB)
Halappa, G. S., MA Col (on leave) (Pol) (MC)
Narassiah, K, MA (on leave) (Hist) (MCWB)
Krishnaswamtengar, B S., MA DLitt (MGM)
Vedavalli, M C, MA (MCWB)
Cheluvarayuh, K. H, MA (Pub. Admin) (MC)
Nanjundiah, K S., MA Supt (ICM)
Shankaralingiah, N, MA (Pol) (MC)
Hanumantha Raju, B H, MA (Pol) (FGCT)
Venkatagiri Gowda, K, MA PhD Lond (MGM)
Srinivasa Murthy, A P, MA (MGM)

Home Science

Langiah, Miss B. Sushela, MSc MS PhD Prof, Principal (MCWB)

Indology

Seshadri, M, MA PhD Lond Prof (MGM)
Purushothama, C G, MA Reader (MC)
Siddalingaiah, S K, MA Reader (MCM)

Journalism

Murthy, N K, MA Reader (MC)

Kannada

Sreekanthaya, T N, MA Prof (MGM)
Narasimhachar, D L, MA Prof (MC)
Rajaratnam, G P, MA Reader (CC)
Javare Gowda, D, MA Reader (MGM)
Mahadevappa, C, MA Reader (FGCT)
Anantharangachar, N, MA Reader (MCWB)

Mathematics and Statistics

Nagappa, P. H, MSc Lond. (Maths) Prof, Principal (CC)
Ekambaram, S K., MA Camb (Stats) Prof (MC)
Iyengar, K Venkatachala, DSc Prof (MGM)
Noronha, F J, MA Lond Prof, Principal (ICB)
Keshava Hegde, S. V., MSc PhD Zür. Prof, Principal (YCM)
Ramesan, T., MSc Prof (EC)
Habibullah, M, MSc Reader (FGCT)
Krishna Sastry, K V., MA Reader (MC)
Munigaviappa, M., MSc Reader (CC)
Kamallamma, K. N., MSc Reader (ICB)
Ambikadevi, Mrs P S., MSc Reader (MCWB)
Venkataraman, C J, MSc Reader (FGCT)
Nanjundiah, T S, MSc PhD Reader (MGM)

Persian, see Urdu

Philology

Manappa Naik, MA Reader (MGM)

Philosophy and Psychology

Naidu, B K, MA DLitt (Psychol) Prof (MGM)
Krishnan, B, MA Reader (MGM)
Muddalinganna, V., MA Reader (MCWM)
Venkataiyappa, K, MA PhD Reader (MC)
Thippeswamy, T, MA Reader (MCWB)
Syagali, Miss M A (on leave) Reader (MCWB)
D'Mendanca, A, PhD (MGM)
Raghavachar, S S (MGM)

Physics

Bondade, S B, BA LLB BSc Lond. Prof, Dir (Collegiate Educn.)
Ramaswamy, S, BSc PhD Lond, FIP Prof (CC)
Subbaraya, T. S., DSc Prof, Principal (FGCT)
Chandrasekhar, S, PhD DSc Prof (MGM)

Readers

Iyengar, K. S., MSc LLB (YCM)
Ziauddin, S, MSc MS (on leave) (CCB)
Kuchela, K N, MSc PhD (CCB)
Kathyayini, Miss H. S, MSc (MCWB)
Paramasvayah, P, AM Calif, MSc (CC)
Venkataswami Setty, P S, MSc PhD (CC)
Madiab, N, MSc (on leave) (YCM)
Venkatanarayana Iyer, H S, MSc (FGCT)
Krishnaswamy Rao, B A, MSc (YCM)
Panchiatnam, S, DSc (MGM)
Krishnamurthy, D, MA PhD (MGM)

Political Science, see Hist, Econ. and Pol Sci

Psychology, see Philos and Psychol.

Sanskrit

Ramachandra Rao, S., MA Prof. (MGM)
Marulasiddiah, G, MA PhD Reader (MGM)
Rangachar, S, MA Reader (MC)
Subbaraya, S, MA Reader (CC)
Siddapparadhya, T G, MA PhD Reader (MC)

Statistics, see Maths and Stats

Tamil and Telugu

Subbaramappa, K, BA BEed BOL
(Telugu) Reader (MC)
(Tamil) Reader (CC)

Urdu, Persian and Arabic

Khan, K. A., MA PhD *Camb.* Prof. (MC)
Begum, A., MA PhD (Urdu) Prof (MGM)
Reader (MC)

Zoology

Ramaswami, L. S., DSc Reader (CC)
Rajasekhara Setty, M R, MSc PhD
Offg Prof (MGM)
Bole Gowda, B N, MSc PhD Reader (MGM)
Appaswamy Rao, M, MSc PhD
Reader (MGM)

ENGINEERING (EC)

Engineering, Civil

Narasimhaiah, D B, BE MS (Mech)
MS (CE) *Kharagpur* Prof
Venkatachala Murthy, H, BSc BE
(on leave) Reader
Reader

Engineering, Electrical

Channabasavaiah, K, BE MS (EE) *Wiz*
Prof, Jt. Dir. of Tech Educn
Raju, W J P, BA BE Prof

Engineering, Mechanical

Narayana Iyengar, B R., SM (Mech) *M I T*,
BSc BE Prof
Thuppiiah, A. V, BSc BE Reader
Gundu Rao, K. V, BE Reader

ADMINISTRATIVE AND OTHER STAFF

Planning Officer H N Chamaiah, MSc
Exec Engineer K S Rajasekharaiah, BSc BE
Asst Engineer S A Bajje Gowda, BE
Dir, Univ. Prasanna P Mallikarjunappa,
MSc Dir, Oriental Res Inst H Deveerappa,
MA Dir, of Phys Educn A Narayanaswamy,
BSc

Hostel, Mysore K N Venkatarayappa, MA
PhD; Central Coll Hostel, Bangalore: S
Subbaraya, MA, Engineering Coll Hostel, Ban-
galore Y G Krishnaswamy, FGC Hostel,
Tumkur K Lakshminarasimha Murthy M.C.W
Hostel, Mysore E Sharadamma, M.C.W
Hostel, Bangalore Margaret Peter

WARDENS OF HOSTELS Maharaja's Coll

UNIVERSITY COLLEGES

[(EC), etc = abbreviations for names of Colleges in Teaching Staff list, *above*;
Pre-Univ., BA, etc., after the name of a coll means that courses are provided
there for Pre-Univ., BA, etc.]

BANGALORE, *Engineering College* (EC) (tel. 2343) BE Principal—K Channabasavaiah, BE MS (EE) *Wiz*

MYSORE, *Maharaja's College* (MC) (tel. 754) BA, BSc, MA, MSc, PhD, Dipls in Indology, Hindi, French. Principal—C. D. Narasimhaiah, MA *Camb.*

MYSORE, *Manasa Gangotri* (Jayalakshmiwila Mansion) (MGM) (tel. 1144) MA, PhD, MEd Admin Officer—H N Chamaiah, MSc

MYSORE, *Yuvaraja's College* (YCM) (tel. 592) Pre-Univ., BSc Principal—S. V. Keshava Hegde, MSc PhD *Zur*.

AFFILIATED COLLEGES

GOVERNMENT

BANGALORE, *Agricultural College* Pre-Professional, BSc (Agri) Principal—B Venkoba Rao, MSc

BANGALORE, *Bangalore Medical College* Pre-Professional, MB BS Principal—M Authikesa-
valu, MB MS, FRCSCan

BANGALORE, *Bangalore Veterinary College* BVSc. Principal—K S Setty, PhD *Edm.*

BANGALORE, *Central College* (CC) (tel. 2051) BSc, MA, MSc, PhD, dipl in German Prin-
cipal—P. H. Nagappa, MSc *Lond*

BANGALORE, *Law College* BL, ML. Principal—P. Sivashankar, BA LLB.

BANGALORE, *Maharani's College for Women* (MCWB) (tel. 2796). Pre-Univ., BA, BSc. Principal—Miss B Sushela Lingiah, MSc MS PhD

BANGALORE, *Medical School* (MedS) I.M.P dipl. Principal—M. Authikesavalu, MB MS, FRCSCan.

BANGALORE, *R.C. College of Commerce* (ComC)

INDIA

(tel. 2589). Pre-Univ., BCom. Principal—G. Ramakrishna Reddy, MA PhD

BANGALORE, *Sri Krishnarajendra Silver Jubilee Technological Institute*. Pre-Professional, BSc (Tech) Principal—Srinagabhushana, BSc, FTI.

CHITRADURGA, *First Grade College* (FGCChit). Pre-Univ., BA, BSc. Principal—S. L. Rama Rao, BA BCom.

COORG, *Govt College*, Mercara Pre-Univ., BA, BSc, BCom. Principal—M. S. Ramachandran

HASSAN, *First Grade College* (FGCH) Pre-Univ., BA, BSc. Principal—P. S. Venkataswamy Setty, MSc PhD

MANGALORE, *Govt. Arts College*. Pre-Univ., BA, BSc, BCom. Principal—Umarji, AM Col., MSc.

MANGALORE, *Govt Training College*. BED. Principal—S. R. Rohndekar, BA MED.

MYSORE, *Maharani's College for Women* (MCWM) (tel. 782) Pre-Univ., BA, BSc. Principal—Miss M. Jayalakshammanna, MA

MYSORE, *Medical College* (MedC) (tel. 512). Pre-Professional, MB BS Principal—J. J. Dharmaraj, MB BS

MYSORE, *Teachers' College* (TC) (tel. 764). BED. Principal—C. Rangachar, BSc MED Leeds.

SHIMOGA, *Sahyadri College* (SCS). Pre-Univ., BA, BSc. Principal—M. Nagaraj, MSc PhD Chuc

TUMKUR, *First Grade College* (FGCT). Pre-Univ., BA, BSc. Principal—T. S. Subbaraya, DSc.

PRIVATE

BANGALORE, *Acharya Pathasala College of Arts and Commerce* Pre-Univ., BA, BCom Principal—N. Ananthachar, MA

BANGALORE, *All India Institute of Mental Health* DPM, DMP Principal—D. L. N. Murthy Rao, DPM Lond., MB BS

BANGALORE, *B. M. Srinivasiah College of Engineering* Pre-Professional, BE Principal—D. Mukerji, BSc BEng Sheff.

BANGALORE, *College of Arts and Commerce*, Malleswaram Pre-Univ., BA, BCom Principal—B. R. Subba Rao, MA.

BANGALORE, *M. E. S. Teachers' College*. BED. Principal—K. V. Doraiswamy, MA BT

BANGALORE, *Mount Carmel College* Pre-Univ., BA, BSc Principal—M. Antoinette, MA LT

BANGALORE, *National College* Pre-Univ., BSc Principal—H. Narasimhaiah, MSc PhD.

BANGALORE, *Rashtriya Vidyalaya Teachers' College*. BED Principal—T. G. Satyanarayana, MA

BANGALORE, *St. Joseph's College* Pre-Univ., BA, BSc, BCom Principal—Fr. E. D'Souza

BANGALORE, *Sri Renukacharya College* Pre-Univ., BSc Principal—C. N. Adaveesiah, MSc

BANGALORE, *Vidya Teachers' College* Educn Principal—K. Srinivasa Rao

BANGALORE, *Vijaya College* Pre-Univ., BSc Principal—V. T. Srinivasan, MA

BELLARY, *Veerasaiva College*. Pre-Univ., BA, BSc, BCom. Principal—D. Manappa, MA LT Med

CHAMARAJANAR, *Intermediate College* Pre-Univ. Principal—O. N. Kumaraswamy, MSc

DAYANGERE, *B. D. T. College of Engineering*. Pre-Professional, BE. Principal—B. P. Gopalakrishna, BSc BE

KANKAPURA, *The Rural College* Pre-Univ., BSc Principal—S. Kanappa, BA.

KARKAL, *Srihuvanendra College* Pre-Univ., BA, BSc, BCom Principal—D. Kim, MSc

KONANUR, *B. M. Shetty Intermediate College* Pre-Univ. Principal—A. Seshagiri Rao, BSc

MANGALORE, *St. Agnes College* Pre-Univ., BA, BSc Principal—M. Carmelita

MANGALORE, *St. Aloysius' College* Pre-Univ., BA, BSc, BCom Principal—Rev. A. P. Menzes

MANGALORE, *St. Ann's Training College* BED. Principal—Sister M. Beatrice

MYSORE, *D. Banumath's College of Commerce* Pre-Univ., BCom Principal—B. V. Banumathiah, BA BCom

MYSORE, *Institute of Education* BED Principal—M. S. Chandrasekharaiiah, MA MED

MYSORE, *National Institute of Engineering*. Pre-Professional, BE Principal—A. Seshappa, BA BE.

MYSORE, *St. Philomena's College* Pre-Univ., BA, BSc Principal—Rev. Fr. N. T. Thomas

MYSORE, *Saradawilas Law College* BL. Principal—K. Narahari Rao, BA BL

MYSORE, *Sharada Vilas College* Pre-Univ., BSc Principal—M. S. Ramaswamy, MA

NARASIPUR, *Vidyodaya College* Pre-Univ. Principal—S. Nanyappaiah, BA

PUTTUR, *St. Philomena's College* Pre-Univ. Principal—Rev. Fr. F. B. Serrao, MA BT.

UDUPI, *Mahatma Gandhi Memorial College*. Pre-Univ., BA, BSc, BCom Principal—H. Sunder Rao, MA

UDUPI, *Sriparampragna College* Pre-Univ., BA, BCom Principal—Inmadar, MA

INTERMEDIATE COLLEGES

BANGALORE, *Intermediate College* (ICB) (tel. 2215). Pre-Univ. Principal—F J Noronha, MA Lond

CHIKMAGALUR, *Intermediate College* (ICChik) Pre-Univ Supt.—S V Venkatchala, MSc

DAVANGERE, *DRM College* (ICD). Pre-Univ. Supt.—N. S. Ramchandiah, MA

KOLAR, *Intermediate College* (ICK) Pre-Univ. Supt.—T D. Bhaskar, MSc MS

MANDYA, *Intermediate College* (ICM). Pre-Univ. Supt.—K. S. Nanjundiah, MA.

GENERAL INFORMATION

The Univ of Mysore was the first univ to be founded in the Indian states. The two state colls. (Central Coll., Bangalore, and Maharaja's Coll., Mysore) which had long been affiliated to Madras Univ formed the nuclei of the new univ., and the establ. of the univ. received the sanction of H.H. the Maharaja of Mysore in 1916. A regn. amendng and consolidating the provisions of the Mysore Univ. Regn. V of 1916, as amended from time to time, received the assent of H.H. the Maharaja in 1933. Further amendment in 1956 made the univ. an autonomous body.

There are two univ. centres, Mysore and Bangalore, at each of which there are univ. colls. (see p. 571).

The univ. is empowered to affiliate colls. under conditions prescribed in the statutes and ordinances. Inspection of colls. is made by profs. deputed by the syndicate.

CONSTITUTION. The principal univ. authorities are the senate, the syndicate, the academic council, the facs., the bds. of studies, the bd. of apts. and the cttee. of finance. The vice-chancellor, who is a full-time officer, is the *ex-officio* chairman of the senate, the syndicate and the academic council. He is also the principal executive officer and the academic officer of the senate and of the council. The executive govt. of the univ. is vested with the univ. syndicate which consists of 14 members. The senate, with a max. strength of 60 members, is in charge of the general organization of the univ. and its admin., incl. the instn. and conferment of degrees. The academic council is the academic authority of the univ. and is responsible for the maintenance of the standards of teaching and examination in the univ.

INCOME (1960-61) Estimated receipts: grant from govt. of Mysore, Rs. 80.05 lakhs; grant from U.G.C., Rs. 39.02 lakhs; fees, Rs. 31.73 lakhs.

FACULTIES AND DEANS (1960-61). *Agric.*, Principal B. Venkoba Rao; *arts*, Prof. T. N. Sreekanthaya (Kannada), *comm.*, Principal B. V. Banumath, *educn.*, Prof. A. C. Deve Gowda; *engin.*, Prof. B. R. Narayana Iyengar (mech. engin.), *law*, Principal P. Shivashankar, *med.*, . . . ; *sci.*, Principal P. H. Nagappa (maths.); *technol.*, Principal Srinagabhushana

UNIVERSITY PRECINCT. The admin. offices of

the univ. are located in the Crawford Hall, Mysore

LIBRARIES. Univ., 82,960 vols.; oriental, 24,970 vols. and 13,886 MSS. Each coll. has its own library

LABORATORIES. At Central Coll., Bangalore: bot., chem., geol., phys., zool. At Maharaja's Coll., Mysore: psychol.

ADMISSION REQUIREMENTS. Pre-univ. course: pass in the Mysore S.S.L.C. exam. satisfying the differential minima rules, or in matric exam. of an Indian univ. or other exam. recog. by the univ. syndicate as equivalent thereto. BA, BSc courses: pass in the pre-univ. exam. of this or any other Indian univ. recog. by the univ. syndicate. BE course: pass in pre-professional or inter exam. in sci. of this univ. or an exam. of this or any other univ. accepted by the univ. syndicate as equivalent thereto, or degree in sci. with phys., chem. and maths as optional subjects, or degree with hon. with maths and phys. as minor subjects. MB BS course: pass in pre-professional (med.) or pre-med exam. of the univ. or BSc degree of this univ. with 1 or more of the above subs., or equivalent qualifs. of other univs. accepted by the syndicate. Provision has been made for the admission to the MB BS course of LMP dipl. holders. They will be eligible for admission to the final exam. 3½ yrs. after admission.

FIRST DEGREES. 3 yrs. after pre-univ.—BA, BSc, BCom; 3 yrs. after pre-professional exam.—BSc(Agric.), BSc(Textiles), BPharm; 4 yrs. after pre-professional exam.—BDS, 5 yrs. after pre-univ.—BE (successful candidates are eligible to take the degree after a yr's practical trg. in a recog. works or firm), BVSc, 5½ yrs.—MB BS

HIGHER DEGREES. BED—1 yr. after BA, BSc, BCom; MA, MSc—1 yr. after BA (hons.), BSc (hons.) or 2 yrs. after BA, BSc; MED—1 yr. full-time or 2 yrs. pt.-time after BED; BL—2 yrs. after BA, BSc, BCom, PhD—3 yrs. after hons. degree or 2 yrs. after master's degree, DLitt, DSc—5 yrs. after hons. degree or 4 yrs. after master's degree, MCom, ML, DE, DEd, MD, MS, MSc(Med)

HONORARY DEGREES. DLitt, DSc, LLD.

DIPLOMAS. Dipl. of licensed med. practitioner (LMP), 4 yrs. after high sch., dipl. in French,

German, Hindi, each 2 yrs after S.S.L.C. Postgrad Indol, 1 yr, DOMS, 1 yr after MB BS, psychol med (DPM), 2 yrs after MB BS; med psychol (DMP), 2 yrs after MA in psychol

RESEARCH. Facilities for postgrad. res. are provided in educn., humanities, sci (Manasa Gangotri, Mysore, Maharaja's Coll, Mysore, Central Coll., Bangalore), and mental sci (All India Inst. of Mental Health, Bangalore).

STUDY LEAVE. Study leave benefits may be granted to teachers of univ colls who proceed abroad for advanced studies, taking into acct the budget provision for this purpose each yr

FEES. Annual tuition fees pre-univ, Rs 90 (arts), Rs 117 (sci), pre-professional, Rs 135 (agric), Rs 180 (engin, textiles), Rs 225 (med), BA, BCom, Rs 126, BSc(Agr), Rs 144, BSc, Rs 162, BSc(Textiles), BE, Rs 198, BVSc, Rs 200, MB BS, Rs 400, BEd, Rs 135, MA, Rs. 144, MSc, Rs 189, MEd, Rs 180; BL, Rs 252, PhD, Rs 80 (arts), Rs 120 (sci)

ACADEMIC YEAR Two terms. Term dates (approx.) arts, sci and professional colls (other than med), June 24 to Oct. 31, Nov 1 to March 31, med colls., Jan. 9 to March 31, June 24 to Nov 29

The usual **LANGUAGE OF INSTRUCTION** is English. Kannada, the regional lang, has been introduced in the pre-univ and 1st yr degree classes as an optional medium

EXTENSION WORK An extension lectures cttee arranges an annual programme. During each yr. a number of lectures are delivered in different parts of the state

WOMEN'S EDUCATION All degrees except BE are open to women. There are 5 instns exclusively for women—the Maharani's Coll and Mt Carmel Coll in Bangalore, the Maharani's Coll in Mysore, St Agnes Coll and St Ann's Trg Coll, Mangalore

STUDENT RESIDENCES Univ hostels at Mysore, Bangalore, Tumkur, Kolar and Davangere, average hostel expenses for 9 mos, about Rs. 450.

STAFF RESIDENCES. There are 8 quarters for profs and 19 for other staff of the univ at Mysore, and 1 principal's quarters at Bangalore

STUDENTS' UNIONS Students' assocs are organized in every coll. Debates, lectures and seminars are arranged under their auspices

NATIONAL CADET CORPS N.C.C. units have been raised in 30 colls. (Boys' div in 25 colls, girls' div in 5 colls) Total strength, 23 officers and 4995 cadets

STUDENT HEALTH SERVICE All students are examined by the med officer once a year

PUBLICATIONS There is a separate dept. of publications in the univ. under the charge of a dir. The univ encourages the publication of original works, particularly in Kannada. The univ also publishes a *Calendar*, an *Extension Lectures Handbook* series, the *Univ Journal* (2 parts, twice p a) and *Prabuddha Karnataka* (2 parts, 4 issues p a)

UNIVERSITY PRESS A univ press has been establd and will undertake the printing work (incl publica) of the univ

THE YEAR 1960

RETIREMENTS Prof S. Srikanta Sastry (hist), K Venkataramappa (Kannada)

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	28,917	14
Women	6,466	4
Total	35,383	18

Distribution by Faculties Agric, 478; arts, 8213, comm, 3941, educn., 543, engin, 3187,

law, 704, med, 1459, sci., 16,792, technol, 84
Total 35,401

Included in the figures above are —

Pre-University students, 12,332

Postgraduate students, 1101

New admissions, 24,562

Students from other countries, 42

DEGREES AWARDED (1960-61) Agric · BSc, 43 Arts MA, 110, BA (hons), 111, BA, 727 Comm BCom, 172 Educn. MEd, 13, BEd, 289 Engin · BE, 714 Law · BL, 80 Med MB BS, 69 Sci MSc, 113; BSc (hons), 144, BSc, 1162 Technol BSc(Textiles), 22 PhD (all facs) · 10.

NAGPUR UNIVERSITY

Founded 1923

Postal Address : Nagpur, Maharashtra State, India
Cables and Telegrams Nagpur University, Maharashtra State
Telephone Nagpur 2382

CHANCELLOR—H E THE GOVERNOR OF BOMBAY (*ex officio*)
VICE-CHANCELLOR—G B BADKAS, MA LLB
TREASURER—P P. DEO, MA LLB
REGISTRAR—M S MODAK, MA PhD
DEPUTY REGISTRAR—S V BHAGWAT, MA PhD
LIBRARIAN—P S PHADKE, BA

TEACHING STAFF

[†=Part-Time ; (AA), (GSc), etc.=symbols for reference to the colleges listed on pp 585-587]

Agricultural Botany

Joglekar, R G, BAg
Vaidya, S B, BAg
Chopde, P R, BSc(Agr)
Chaugale, D S, BAg
Khadulkar, B T, MSc(Agr)
Pimplikar, E D, MSc(Agr)
Ekbote, A P, MSc
Tatwawadi, G. R., MSc(AgrBot)
Lall, S B., MSc(AgrBot) PhD
Ghawghawe, B G., BSc(Agr)
Deshmukh, N Y, BSc(Agr)
Tayyib, M. A., MSc(AgrBot)
Katwe, G A, BSc(Agr)
Hande, S G, MSc
Malkhede, S R, MSc(Agr)

Prof. (A)
Lectr. (A)
Lectr. (AA)
Lectr. (AA)
Lectr. (AA)
Lectr. (AA)
Lectr. (AA)
Lectr. (A)
Lectr. (A)
Lectr. (A)
Lectr. (A)
Lectr. (A)
Lectr. (A)
Lectr. (A)
Lectr. (Sh)
Lectr. (Sh)
Shirpurkar, G R., MSc(Agr) *Adel.* Prof. (A)
Kelkar, M. G., BSc(Agr) Lectr. (A)
Deshpande, U. G., BSc(Agr) MA(Econ)
Rahudkar, W B, MSc(Agr) Lectr. (A)
Khaladkar, B T, MSc(Agr) MS(AgrExtm) Lectr. (A)
Sinnerkar, N. P., BSc(Agr) Prof. (AA)
Deshmukh, B R., MSc(Agr) Lectr. (Sh)

Agricultural Mathematics, Surveying and Engineering

Vanjari, S S, BSc(Agr) BSc(AgrEngg) Lectr. (A)
Golkhale, V V, BSc(Agr) BSc(AgrEngg) Lectr. (A)
Gharat, G K, BSc(Agr) Lectr. (A)
Kotkar, S V, BSc(Agr) Lectr. (A)
Rasal, V B, BSc(Agr) BSc(AgrEngg) Lectr. (A)
Tatke, M. V., BSc(AgrEngg) Lectr. (AA)
Tankale, V A, MSc(Agr) *Kannar*, BSc(AgrEngg) Lectr. (AA)
Deshpande, G P, MSc Lectr. (AA)

Agronomy

Deshpande, A M, BSc(Agr) Prof. (A)
Upadhyaya, U C, MSc(Agr) Lectr. (A)
Vaidya, C S, MSc(Agr) Lectr. (A)
Rahate, V. T., BSc(Agr) Lectr. (A)
Baponkar, V. R., BSc(Agr) Lectr. (A)
Bathikal, B G, BSc(Agr) MA Lectr. (A)
Narkhede, B N., MSc(Agr) Lectr. (A)
Khare, B G, MSc(Agr) Lectr. (A)
Shreenivas, L, MS *Texas* Principal (AA)
Burande, D R, MSc(Agr) Lectr. (AA)

Agricultural Chemistry

Shrivastava, R C, MScTech *Mane*

Deshpande, T. L., BSc(Agr) Principal (A)
Bapat, M V, MSc Prof. (A)
Nanyoshi, N. G., BScTech Lectr. (A)
Bhalikar, D. V., BSc(Agr) Lectr. (A)
Deoras, C M., BSc(Tech) Lectr. (A)
Badhe, N. N., MSc Lectr. (A)
Kadrekar, S B, MSc(Agr) Lectr. (AA)
Joshi, B G, MSc Lectr. (AA)
Bedekar, V. G, MSc Lectr. (AA)
Wadodkar, P N, MSc Lectr. (Sh)
Gulaxe, S. N., MSc Lectr. (Sh)

Agricultural Economics

Patil, T Y, MS *Mish.*, MSc(Agr) Prof. (A)
Shingaray, M. K., MA BSc(Agr) Lectr. (A)
Sohoni, D. K., MA BSc(Agr) Lectr. (AA)

Mahalle, P S, BSc(Agr)
 Badhe, N T, MSc(Agr)
 Roy, A. K., MSc(Agr)
 Shah, K. M., BSc(Agr)
 Bhargava, P N, MSc(Agr)

Lectr (AA)
 Lectr (AA)
 Lectr. (Sh)
 Lectr (Sh)
 Lectr (Sh)

Patankar, Mrs Sindhu, MB BS
 Naik, M R, MB BS
 Ladhe, K S, BSc
 Mahajan, S S.
 Kuthe, A

†Asst Prof (VAM)
 Lectr (VAM)
 Lectr (VAM)
 Lectr. (VAM)
 Lectr (VAM)

Ancient Indian History and Culture

Mirashi, V V., MA DLatt

Prof., Hd. of U Dept.

Dikshit, M G, MA PhD
 Shastri, A M, MA
 Verma, O. P., MA

Reader
 Lectr
 Lectr

Biochemistry

Nath, M C., DSc, FNI, FRIC

Prof, Hd of U Dept.

Chakrabarti, C H, MSc PhD
 Hatwalne, V. G., MSc PhD
 Moolkerjee, S, MSc DPhil

Lectr.
 Lectr
 Lectr

Animal Husbandry and Dairy

Chavan, I. G, PhD MS
 Makdani, D. D, MSc(Agr)
 Mule, C N, PhD Texas, MSc(Agr)

Lectr. (A)
 Lectr (A)
 Lectr (AA)

Botany

Dnyansagar, V R, MSc PhD
 Dalal, S B, MSc
 Nagarkar, M, MSc
 Deshpande, P. K, MSc
 Dhamdhare, R N, MSc
 Dhore, M A, MSc
 Tulak, V D, MSc
 Bhusari, S. D., MSc
 Deshpande, Miss S V., MSc
 Theophilus, S C, MSc
 Beliram, R., MSc
 Deshpande, B G, MSc
 Belekar, C S, MSc
 Ratnaparkhi, S B, MSc
 Bobde, P L, MSc
 Pahade, M. J., MSc
 Kajale, L. B, DSc
 Deshpande, P R, MSc PhD
 Mirashi, M V, MSc
 Hazarnavis, Mrs L S, MSc
 Tamhane, S N, MSc BT
 Chitale, Mrs S. D., MSc PhD R'dg
 Trivedi, Mrs T K, MSc BT
 Paradkar, Mrs S A, MSc
 Kapuskar, A T, MSc
 Joshi, S R, MSc
 Nafde, Miss V R, MSc
 Munshi, K M, MSc
 Vedpathak, D K, MSc
 Bhutada, C S, MSc
 Ghan, Mrs S P., MSc
 Mukherjee, P K, MSc
 Padhye, M A, MSc
 Sethi, D K, MSc
 Deshmukh, P. Z, MSc
 Shah, Mrs. Urmik, MSc
 Samis, L B, MSc
 Purekar, P N, MSc

Lectr (VM)
 Lectr (VM)
 Lectr. (VM)
 Lectr (VM)
 Lectr (VM)
 Lectr (VM)
 Lectr (VM)
 Asst Lectr (VM)
 Asst Lectr (VM)
 Sr Lectr. (H)
 Lectr. (H)
 Tutor (H)
 Sr Lectr (M)
 Lectr (M)
 Lectr (M)
 Lectr (M)
 Prof., Principal (Sc)
 Prof (Sc)
 Asst Prof (Sc)
 Lectr (Sc)
 Lectr (Sc)
 Lectr (Sc)
 Lectr (Sc)
 Lectr (Sc)
 Lectr (Sc)
 Asst Lectr (Sc)
 Asst Lectr (Sc)
 Principal (GSc)
 Sr Lectr (GSc)
 Lectr (GSc)
 Lectr (GSc)
 Lectr (SFS)
 Lectr (SFS)
 Demr (SFS)
 Lectr (Sh)
 Lectr (Sh)
 Lectr (Ch)
 Lectr (N)

Arabic and Persian

Naimuddin, S., MA DLatt
 Rafiuddin, S., MA PhD
 Ahmad Tsieyb, MA
 Hamid, M, MA LLB
 Abidi, A H, MA
 Zohara Begum, Miss, MA
 Saiyada Nain Durdava, Mrs., MA
 Murtuza Baig, M G, MA

Prof (NMV)
 Lectr (NMV)
 Lectr (NMV)
 Lectr (NMV)
 Lectr (VM)
 Lectr (W)
 Tutor (W)
 Lectr (SFS)

Architecture

Rajadhyax, V R, DipArch
 Dave, M K, DipArch
 Chatterjee, A K, DipArch
 Muliik, S. H., DipArch
 Tope, P K., DipArch
 Godbole, M K, DipCE
 Parasnis, S D, DipArch
 Joshi Rao, B. K, DipArch

Prof (GPN)
 Asst Prof. (GPN)
 Lectr (GPN)
 Lectr (GPN)
 Lectr (GPN)
 Lectr (GPN)
 Lectr (GPN)
 Lectr (GPN)

Archit Diaughtsman (GPN)

Adave, S. D, MA LLB

Asst Lectr (GPN)

Art

Dehadrai, V B
 Deshpande, G K
 Tikekar, V V
 Karanjkar, W V, BA
 Pendharkar, P N

Art Master (GPN)
 Art Master (GPN)
 Lectr (GPN)
 Lectr (GPN)
 Lectr (GPN)

Ayurveda

Mulay, P D
 Tare, P. R.
 Sahasrabudhe, D. S
 Kasbekar, D H
 Pathak, G D
 Joshi, T G
 Karade, P D
 Widwans, J T
 Natu, G D, MB BS
 Alst, P S, MS
 Pandharikar, D. V, MB BS
 Sikchu, T. K., MB BS

Principal (VAM)
 Prof. (VAM)
 Prof (VAM)
 †Prof (VAM)
 †Prof (VAM)
 †Prof (VAM)
 †Prof (VAM)
 †Prof (VAM)
 †Prof (VAM)
 †Asst. Prof. (VAM)
 †Asst Prof. (VAM)

Chemistry

Asolkar, G. V, PhD Camb & Nag, MSc

Sakhare, V S, MSc PhD
 Karbelkar, M V, MSc
 Mande, B A., MSc
 Thakre, O. B., MSc
 Marawar, W. A., MSc
 Tikhile, R. G., MSc

Prof (Sc)
 Asst Prof (Sc)
 Asst Prof. (Sc)
 Lectr. (Sc)
 Lectr. (Sc)
 Lectr. (Sc)

Soman, S V, MSc	Lectr. (Sc)	Commerce	
Kane, Y. D., MSc	Lectr. (Se)	Tokhi, M. R., MA(Econ) BCom LLB Luck.	
Kate, S. R., MSc	Lectr. (Se)	Prof., Principal (CN)	
Konher, M V., MSc	Lectr. (Se)	Chorghade, V K, MA BT	Sr. Lectr. (CN)
Wazalwar, G B., MSc	Lectr. (Se)	Khare, H. K., MCom	Sr. Lectr. (CN)
Damle, M. H., MSc	Lectr. (Se)	Jain, V S., MCom	Sr. Lectr. (CN)
Jadhav, P. K., MSc	Lectr. (Se)	Bokare, M. G., MCom	Sr. Lectr. (CN)
Kaplay, S. M., MSc	Lectr. (Se)	Garge, B N., MCom	Lectr. (CN)
Mahajani, P. B., MSc Phd	Lectr. (Se)	Charde, S G., MCom	Lectr. (CN)
Nandapurkar, J. N., MSc	Asst Lectr (Se)	Chanserkar, M A., MCom Phd	Sr. Lectr. (CN)
Balajee, S. R., MSc	Asst Lectr (Se)	Jain, R K., MCom	Sr. Lectr. (CN)
Apte, Miss V V, MSc	Asst Lectr (Se)	Aparajit, C R., MCom	Lectr. (CN)
Jog, M S., MSc	Asst Lectr (Se)	Munshi, D M., MCom	Lectr. (CN)
Karmalkar, B. S., MSc	Sr. Lectr (H)	Sharma, D. P., MCom LLB	Lectr. (CN)
Francis, A. M., MSc DPhil	Lectr. (H)	Ukhalkar, A S., MCom	Lectr. (CN)
Josh, V W., MSc	Lectr. (H)	Saxena, P S., MCom	Lectr. (CN)
Mehta, R S., MSc	Lectr. (H)	Rajurkar, R J., MCom	Lectr. (CN)
Narajoshi, S Y., MSc	Lectr. (H)	Badjate, S S., MCom LLB	Lectr. (CN)
Mahajan, A S., MSc	Tutor (H)	Gawande, P. S., MCom	Lectr. (CN)
Bhojar, S T., MSc	Demr (H)	Shah, M M., MA Phd Bom	
Deshpande, G M., MSc	Sr. Lectr (M)	Prof., Principal (CW)	
Bobde, M V., MSc	Lectr (M)	Chandurkar, V U., MA BCom	Sr. Lectr. (CW)
Chitale, R P., MSc	Lectr (M)	Shrinarayana, M. A., BCom	Sr. Lectr. (CW)
Patil, V B., MSc	Lectr (M)	Hatekar, D. J., MA	Sr. Lectr. (CW)
Wahadpande, B N., MSc	Lectr (M)	Jayoo, N S., MCom	Lectr. (CW)
Dwivedi, S M., MSc	Lectr (M)	Vora, R D., MCom	Sr. Lectr. (CW)
Chopde, W. D. MSc	Lectr (M)	Vanmali, B D., MCom	Sr. Lectr. (CW)
Basu, S. B., MSc	Lectr (M)	Patil, R. K., MCom	Lectr. (CW)
Shende, M. A., MSc	Lectr (M)	Belge, M W., MCom	Lectr. (CW)
Chavan, V P., MSc	Lectr. (M)	Karve, S V., MCom	Lectr. (CW)
Marathe, M. G., MSc Phd	Prof. (VM)	Jagtap, U Y., MCom	Lectr. (CW)
Sahadeo, M A., MSc	Lectr (VM)	Deshmukh, P J., MCom	Lectr. (CW)
Farnandwar, M D., MSc	Lectr (VM)	Kasat, S P., MCom	Lectr. (CW)
Paradkar, M K., MSc	Lectr (VM)	Kaple, B. J., MCom	Lectr. (CW)
Khandekar, P S., MSc	Lectr (VM)	Deshmukh, N. C., MCom	Principal (Sh)
Kulkarni, D B., MSc	Lectr (VM)	Khanolkar, A. L., MCom	Sr. Lectr. (Sh)
Sathe, S W., MSc	Lectr (VM)	Agarkar, N P., MCom	Lectr. (Sh)
Keskar, A Y., MSc	Lectr (VM)	Rode, M Y., MCom	Lectr. (Sh)
Paranjpe, M V., MSc	Lectr (VM)	Deshmukh, D. K., MA BCom	Lectr. (Sh)
Gokhale, N L., MSc	Lectr. (VM)	Kale, W S., MCom	Sr. Lectr. (Sh)
Borle, M N., MSc	Lectr (VM)	Dhotey, M. G., MCom LLB	Lectr. (Sh)
Ghiye, B J., MSc	Asst Lectr (VM)	Tatte, R. G., MCom	Lectr. (Sh)
Daifode, K B., MSc	Sr Lectr (GSc)	Bhujade, D. A., MCom	Lectr. (Sh)
Tare, V E., MSc	Lectr (GSc)	Ambalkar, M P., MCom	Lectr. (Sh)
Deshpande, W. G., MSc	Lectr (GSc)	Sony, R. G., MCom LLB	Sr Lectr (GSc)
Dongre, M B., MSc	Lectr (GSc)	Kulkarni, G. M., MCom	Lectr (GSc)
Bhadang, B. S., MSc	Lectr (GSc)	Moharrir, M G., MCom	Lectr (GSc)
Kale, M V., MSc	Lectr (GSc)	Kanoongo, G., MCom	Lectr (GSc)
Malik, S P., MSc	Lectr (W)	Upadhyaya, J U., MCom	Lectr (GSc)
Sathe, Miss P., MSc	Lectr (W)	Chandak, B. S., MCom	Lectr. (SA)
Deb, Mrs S., MSc	Lectr (AM)	Bapat, M. S., MCom	Lectr. (SA)
Vekhande, C R., MSc	Lectr (AM)	Gandhi, K G., MCom LLB	Lectr. (SA)
Deshpande, V D., MSc	Sr Lectr (SA)	Puranik, B M., MA LLB	Lectr. (SA)
Patwardhan, H W., MSc	Lectr (SA)	Ranade, P S., MCom	Lectr. (SA)
Tare, M P., MSc	Lectr (SA)	Sao, B P., MA MCom	Lectr. (G)
Josh, W. W., MSc	Lectr (SFS)	Chafle, R. S., MCom	Lectr. (G)
Joseph, K V., MSc	Lectr (SFS)	Devivedi, S P., MCom LLB	Lectr. (G)
D'Souza, A., MSc	Lectr (SFS)	Yandulkar, R S., MCom	Lectr. (G)
Scaria, C M., MSc	Lectr (SFS)	Datay, S D., MA LLB	Principal (V)
Gadgil, A. G., MSc	Lectr (Sh)	Sarode, C A., MCom	Lectr. (V)
Patki, D M., MSc	Lectr (Sh)	Shrivastava, J K., MCom	Lectr. (V)
Kathe, N S., MSc	Lectr (Ch)	Kelkar, S B., MA	Lectr. (V)
Wasu, V K., MSc	Lectr (N)	Nagode, V M., MCom	Lectr. (Ch)
Galkar, N T., MSc			
Josh, R G., MSc			

U

Lanjewar, M M, MA BCom LLB

Pashine, R K, MCom

Economics

Bal, S D, MA LLB

Patil, T. A., MA LLB MCom

Ozarkar, S. R., MA

Deshpande, Mrs K. C., MA

Dabadghao, D. B., MA

Pimparkar, G P., MA

Gimi, J F., MA

Singh, V D, MA

Ayachit, R. P., MA

Pimparkar, M T., MA BSc

Tekade, B. T., MA BCom LLB

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Munje, B. H., MA

Fadnavis, P K, MA

Hejib, S D, MA LLB

Shenwa, V S, MA

Iyengar, Miss S, MA LT PhD

Joshi, Miss S, MA

Mulay, Miss Usha, MA

Banket, D K, MA

Lothe, A N, MA

Gore, S D, MA

Joshi, L G., MA PhD

Modak, S K, MA

Joshi, R M, MA LLB

Vaidya, G. S., MA

Page, R K., MA LLB

Deodhar, S B., MA

Choudhari, M. R., MA

Chorghade, V. K., MA (Econ) BT

Joshi, Miss S V, MA

Jawandhia, S H, MA

Upadeo, V W, MA

Paranjape, R W, MA

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Prabhu, A, BA

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Joshi, A. S., MA BCom LLB

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Nanekar, K R, MA PhD

Goswade, R T, MA LLB

Wakhare, D S, MA

Khandewale, S V, MA

Sapre, R, MA

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Deshpande, P. A., MA

Education

Tamhane, S N., MA Med Principal (UTC)

Dhabe, Miss Pramila W, MA LLB MED

Dakshindas, R. V., BSc MED LLB Lectr. (UTC)

Karkare, M G., MA MED Lectr. (UTC)

Puranik, G A, BA MED Lectr. (UTC)

Muley, R S, MA MED Lectr. (UTC)

Joshi, Mrs. Yamunabai, MA MED Lectr. (UTC)

Principal (N)

Lectr (N)

Prof. (NM)

Lectr. (NM)

Lectr. (NM)

Lectr (NM)

Lectr (NM)

Sr Lectr (H)

Lectr (H)

Lectr. (H)

Lectr. (H)

Lectr. (N)

Lectr (N)

Sr. Lectr (C)

Lectr (C)

Lectr (C)

Lectr (C)

Lectr (C)

Sr Lectr (W)

Lectr (W)

Lectr. (W)

Prof (VM)

Lectr (VM)

Lectr (VM)

Lectr (VM)

Sr Lectr (Sh)

Lectr. (Sh)

Principal (SA)

Lectr. (SA)

Sr Lectr (R)

Sr Lectr (CN)

Lectr (GSc)

Lectr (GSc)

Lectr (GSc)

Lectr (GSc)

Principal (B)

Lectr (SFS)

Lectr (AM)

Lectr (AM)

Lectr. (G)

Lectr (Ch)

Lectr., U. Dept

Lectr. (DMV)

Lectr. (MFM)

Lectr (CPB)

Lectr (Y)

Lectr (Ak)

Lectr. (Raj)

Kashyap, Miss A, MA LT Lectr. (UTC)

Pandey, M. B., MA BSc Med Lectr. (UTC)

Deshpande, K. H., MSc LLB MED Lectr. (UTC)

Welankar, P. G., MA MED Lectr. (UTC)

Kundley, M. B., MA MED Lectr. (UTC)

Kukde, D P, MA MED Lectr (UTC)

Kalyanpurkar, Mrs. S., BA MED Lectr. (UTC)

Mehra, Miss V, BSc MED Lectr. (UTC)

Zade, B. Z. Carpentry Instr (UTC)

Sathe, Mrs. N., MA BT Principal (Dip.TW)

Sumitra, Miss K, BSc BT Lectr (Dip.TW)

Deosthale, Mrs L., MA DipT Lectr (Dip.TW)

Deshpande, Y. M., MA BT Lectr. (Dip TW)

Paonaskar, Mrs. S., MA BT Lectr. (Dip TW)

Telang, H. Y., BA MED Lectr. (Dip TW)

Ghaskadbi, Miss C, MA BT Lectr. (Dip TW)

Panwalkar, Miss M., BA MED Lectr (Dip TW)

Gorey, M P, BSc MA BT Lectr. (Dip.TW)

Kalkonde, Mrs. P., BA Lectr (Dip.TW)

Vaidya, Miss P., MA BT Lectr (Dip.TW)

Rajderkar, Mrs., BA BT Home Sci Teacher (Dip TW)

Maduskar, Mrs, MA BT Music Teacher (Dip TW)

Nagarkar, Mrs. C., BA BT Craft Teacher (Dip.TW)

Dakshindas, C V, MA BT Lectr (Dip TM)

Shukla, M M, MA MED Lectr (Dip.TM)

Varhadkar, J S, MA MED Lectr (Dip TM)

Potdar, N. L., MA BT Lectr (Dip TM)

Khedkar, M. B., MA MED Lectr. (Dip TM)

Sole, V P, MSc MED Lectr (Dip TM)

Joshi, S G., MA MED Lectr (Dip TM)

Sathe, D T., MA MED Lectr (Dip TM)

Choudhari, D. D., BSc MED Lectr. (Dip TM)

Boka, K D, MA DipT Lectr. (Dip TM)

Ambulkar, D L, BSc BT Craft Teacher (Dip TM)

Dalal, R B, BMus Luck, MMus Bom Music Teacher (Dip TM)

Munje, R H, MSc Bom, DipEd Brst Principal (GTC)

Patil, Mrs Leela B, BA MED Prof (GTC)

Baipute, Mrs Meera, DipPhysEdn Bom, MED Springfield, MA Lectr. (GTC)

Veni, V M., DipPhysEdn Bom., BSc MED Lectr (GTC)

Purandare, Miss Saraswati A, MA PhD BT Lectr (GTC)

Wadgaonkar, J G, MA BT Lectr (GTC)

Borse, D G, MA MED LLB Lectr (GTC)

Choudhari, V R., BA BT Lectr (GTC)

Kulkarni, Mrs Indumati, MA BT Lectr (GTC)

Dandekar, W N, BSc MED Lectr (GTC)

Dani, Mrs Sarai, MA MED Lectr (GTC)

Kelkar, S V, Assoc Inst. of Educn, Lond, BSc PhD MED Principal (ABT)

Shidore, Mrs. K., MA BT Prof. (ABT)

Dixit, N. G, MA BT LLB Asst. Prof (ABT)

Mankar, S P, MA MED Lectr. (ABT)

Palkar, G. D, MA BT Lectr (ABT)

Khadikar, S. D, MA BSc BT Lectr (ABT)

Badhe, S. S. Craft Instr. (ABT)

Keoliya, N P, BA MED Principal (S)

Damle, H B., MA BT LLB Lectr (S)

Warnekar, M B, MA BT	Lectr (S)	Vaidya, M S, MA LLB	Lectr (M)
Umathe, V T, MA BT	Lectr (S)	Pal, S K, MA	Lectr (M)
Shende, M K, MA BT LLB	Lectr (S)	Vaidya, Mrs. S, MA	Lectr (M)
Patil, W P, MA BT	Lectr (S)	Anantaraman, Mrs. K, MA	Tutor (M)
Pande, R G, BA BT	Lectr (S)	Saldanha, Miss M A, MA MS MEd	
Jha, S K, BSc MEd	Principal (JT)	PhD	Principal (W)
Gupta, S C, MA MEd	Lectr (JT)	Narayan, Miss K, MA	Lectr. (W)
Jha, B. L, MA MEd	Lectr (JT)	D'Souza, Miss J, MA	Lectr. (W)
Kulkarni, D L, BCom MEd	Lectr (JT)	Chawhan, Mrs. G. S, MA	Lectr. (W)
Indapurkar, C D, BA MEd	Lectr (JT)	Kapre, Mrs S, MA	Lectr. (W)
Altekar, J D, BCom MEd	Lectr (JT)	Dalal, Miss K, MA	Tutor (W)
Joshi, R S, MA MEd	Lectr (JT)	Murty, J. S., MA	Lectr. (N)
Jha, B K, MA BEd	Lectr (JT)	Mahajan, M L, MA	Tutor (N)
		Hamza, N B, MA	Lectr (N)
		Sen, Mrs. Suhasini, MA	Sr. Lectr. (N)

Engineering

De'Souza, A, BA BE	Principal (E)	Kacholia, B M, MA	Lectr. (CN)
Khare, S T, ME	Prof (E)	Sengupta, A K, MA	Lectr. (CN)
Joshi, M G, BSc (Engg)	Prof (E)	Shinde, N. R., MA LLB	Tutor (CN)
Pandit, G S, BE	Prof (E)	Agnihotri, S. S, MA	Lectr (CW)
Basu, F, BE	Prof (E)	Mamral, B B, MA LLB BT	Tutor (CW)
Jayavidyacharya, C, BSc BE	Lectr (E)	Mitra, S N, MA	Lectr (VM)
Gupte, R. B, MSc	Lectr (E)	Iyer, R D, MA	Lectr (VM)
Palamkar, K Y., BE	Lectr (E)	Shende, D K, MA	Lectr (VM)
Attarde, S T, MSE <i>Mich</i> , BE	Lectr (E)	Purohit, K J, MA	Lectr (VM)
Khadilkar, M R, BE	Lectr (E)	Bhatnagar, O P, MA	Lectr (VM)
Pathak, M W, BSc BE	Lectr (E)	Maheshabde, N. C, MA	Lectr (VM)
Khare, G P, BE	Lectr (E)	Rao, Mrs S, MA	Lectr (VM)
Choudhari, R D, ME	Lectr (E)	Kashyap, C V K, MA	Lectr (VM)
Khanzode, R B, DipEng	Drawing Instr (E)	Jorapur, M B, MA	Lectr (VM)
		Kate, L M, MA	Lectr. (VM)
		Pande, W. P, MA	Lectr (VM)
		Patankar, R B., MA	Lectr. (VM)

English

Thanekar, P N., MA LLB	Prof (NM)	Raman, K N, MA	Sr. Lectr. (Sh)
Mane, E G, MA	Lectr (NM)	Bhaskar, Mrs. R. D, MA	Lectr. (Sh)
Ghoshal, N N, MA	Lectr (NM)	Rama Rao, B, MA LLB	Lectr. (Sh)
Pal, Miss Mira, MA	Lectr (NM)	Dhanagare, P N, MA	Lectr (Sh)
Parasur, M R, MA	Lectr (NM)	Joshi, N. V, MA	Lectr (Sh)
Wannali, Mrs P., MA BT	Lectr. (NM)	Bidwai, Miss Rajani, MA	Tutor (Sh)
Joag, S N, MA	Lectr (NM)	Sant, Y B, MA	Tutor (Sh)
Rao, N L, MA	Lectr (NM)	Soman, R V, MA	Sr Lectr (SA)
Pandit, V N, MA	Asst Prof (Sc)	Srinivasan, M R, MA	Sr Lectr. (SA)
Barua, P. R., MA	Lectr (Sc)	Patilkar, M S, MA	Lectr (SA)
Deshpande, Miss S. K., MA	Lectr. (Sc)	Malpani, R T, MA LLB	Tutor (SA)
Pande, K N, MA	Lectr. (Sc)	Urdhwarashe, P W, MA	Sr Lectr. (GSe)
Adhikari, Mrs Maya, MA	Lectr (Sc)	Vaidya, N B, MA	Tutor (GSe)
Chatterjee, T K, MA	Lectr (Sc)	Pandit, P K, MA	Lectr (GSe)
Siddiqui, A A, MA	Asst Lectr (Sc)	Apte, V D, MA	Tutor (GSc)
Deshmukh, Miss S, MA	Asst Lectr (Sc)	Naik, M. K, MA	Sr Lectr (R)
Joseph, W N, MA	Sr Lectr (H)	Parchure, Mrs V K, MA	Lectr (A)
Devasesan, Miss M T, MA	Lectr (H)	Augustine, V J, MA	Lectr (SFS)
Nagarajan, V, MA	Lectr. (H)	Sister Eleonor, MA	Lectr (SFS)
Adhikari, Miss D, MA	Tutor (H)	Thelkedath, Rev. Fr G, BA	Tutor (SFS)
Rajiva, Miss F, MA	Lectr (H)	Adawatkar, P G, MA	Lectr. (AA)
Mane, Miss Shobha, MA	Lectr (H)	Vaidya, L W, MA	Lectr (B)
Deshmukh, S J, MA	Tutor (H)	Paradkar, N B, MA	Principal (AM)
Harris, J., MA	Tutor (H)	Kanaday, V R, MA	Lectr. (AM)
Bodhankar, S L, MA	Tutor (H)	Pande, D L., MA	Tutor (AM)
Virdi, D S, MA	Sr Lectr (C)	Pande, D. B, MA LLB	Lectr (G)
Roy, R N., MA	Lectr (C)	Pathak, S S, MA	Lectr. (G)
Sen, Miss A, MA	Lectr (C)	Krishnamurty, Y, MA	Lectr (Ch)
Deshmukh, D G, MA	Lectr (C)	Shastri, B N., MA	Lectr. (Ch)
Kalikar, Miss S R, MA	Tutor (C)	Athale, Mrs Suman, MA	Lectr. (Ch)
Aiyub, M, MA	Tutor (C)	Wanmali, V R, MA	Lectr, U. Dept
Soman, V R, MA	Lectr. (C)	Shastri, P S., MA DLitt	Reader, U Dept.
Dabur, W M, BA	Sr Lectr. (M)	Ranade, P V, MA	Lectr. (DMV)

Murthy, P V S N, MA BEd
Panchawatikar, R K, MA
Joshi, T V, MA LLB BT
Deshmukh, G B, MA
Kotwal, G R, MA BLStt
Wadaskar, Y W, MA

Lectr (MFM)
Lectr. (CPB)
Lectr (Y)
Lectr (Ak)
Principal (Raj)
Lectr (Raj)

Moholkar, M. R., MA
Dange, S A., MA
Jhare, L. N., MA
Lall, Mis K, MA
Bans, J B, MA
Jain, Miss Shanta, MA
Verma, K. K., MA BT LLB
Verma, R B L, MA
Gandhe, Mrs Indumati, MA
Jha, B L, MA MEd
Pathak, K K, MA LLB PhD
Sharma, R, MA
Jain, P B, MA
Rathi, P D, MA

Lectr (Sc)
Lectr. (GSc)
Lectr. (M)
Tutor (W)
Lectr (AM)
Lectr (SFS)
Principal (G)
Lectr. (G)
Lectr. (A)
Lectr (Ch)
Reader, U. Dept
Lectr, U Dept
Lectr (Sh)
Lectr (Raj)

Entomology

Bagal, S R, MSc
Thakre, K. R., BSc(Agr)
Bhamburkar, B L, BSc(Agr)
Kadam, M. V, MSc(Agr)
Tale, Y. M., MSc(Agr)

Prof. (A)
Lectr. (A)
Lectr. (A)
Lectr (AA)
Lectr. (AA)

French

Sister Leonie

Lectr. (SFS)

Geography

Bidwai, B. K., MA
Narkhede, D G, MA
Ranade, Mrs S, MA
Khandekar, Mrs Chitra, MA
Lingiah, Miss E. V, MA
Choudhuri, P. K., MA LLB
Changole, V B, MA
Jagtap, G P, MA
Tarnaskar, B G, MA
Khan, A Q., MSc
Khandwe, M A, MA
Jain, N G, MA
Mishra, V B, MSc
Upadhye, M K, MA
Deodhar, V H, MA
Shastri, Miss Vimal, MA
Patil, Miss U R
Muthal, B. L., MA
Chawaridule, P B, MA

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Lectr. (NM)
Lectr. (NM)
Lectr. (NM)
Lectr (NM)
Asst Lectr (NM)
Asst Lectr (NM)
Prof. (VM)
Lectr (VM)
Lectr. (VM)
Lectr. (VM)
Lectr. (VM)
Lectr. (VM)
Lectr. (VM)
Lectr. (W)
Lectr (W)
Lectr (Ch)
Lectr (G)

History

Deoras, V R., MA PhD
Gupte, Miss Chandravati, MA
Mishra, P L., MA
Gedam, T V., MA LLB
Ramalingam, J, MA
Keshavnagar, K M, MA
Kothare, Miss S S, MA
Sheorey, S D, MA
Telang, P S, MA
Mahaley, K L, MA
Deshpande, A D, MA
Abraham, K, BA
Iyengar, Miss S., MA PhD
Mani, Mrs Kamala, MA
Kaul, H M, MA
Apte, B. K., MA
Acharya, K A, MA BT MEd
Kadam, G B, MA
Ranade, P. V., MA
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Prof (NM)
Lectr (NM)
Lectr (NM)
Lectr (NM)
Lectr (H)
Lectr (H)
Lectr (C)
Lectr (C)
Lectr (VM)
Lectr (VM)
Lectr (AM)
Lectr (SFS)
Sr Lectr. (W)
Lectr (W)
Lectr (G)
Reader, U Dept
Lectr (SA)
Lectr (Sh)
Lectr (DMV)
Lectr (Raj)

Geology

Sripada Rao, K., MSc, FGS, FNI
Prof, Hd of U. Dept.

Pande, P. C., MSc
Suryanarayana, K., MSc
Deshpande, G. G., MSc
Giri, M. B., MSc MA
Dekate, Y G, MSc
Sappal, K. K., MSc
Ramalingachari, G., MSc
Mohabey, N. K., MSc
Khot, S S, MSc
Ullabhaye, A. V, MSc
Saraf, B. K., MSc

Reader
Lectr.
Lectr
Lectr.
Lectr
Lectr.
Lectr.
Lectr.
Sr Lectr (M)
Lectr. (M)
Lectr (M)

Home Science

Limaye, Mrs K S, BSc
Dantale, Miss S R, BSc
Godbole, Miss S, BSc
Garde, Miss N, BSc
Joshi, Miss Sheila, BSc
Basrur, Miss Sona, BSc BEd
Sinha, Miss Kanta, MA BSc LLB
Bhambal, Mrs. R, MSc Syr, BA
Kothekar, Miss S V, MA
Deb, Miss Shebali, MSc
Pradhan, Miss Saral, BA BSc
Vakil, M. R, MA
Deshmukh, Miss Nalini, BSc

Lectr (C)
Lectr (C)
Lectr. (W)
Lectr (W)
Lectr (W)
Lectr. (W)
Lectr. (W)
Lectr (W)
Lectr. (W)
Tutor (W)
Grad. Asst. (W)
Lectr (GSe)
Lectr (Sh)

Hindi

Borgaonkar, Mrs. S., BA
Verma, S S., MA
Shrivastava, V P, MA
Singh, J. S M, MA
Sahu, G P, MA
Gupta, G N, MA
Bagaddeo, Mrs Tara, MA
Shrivastava, R. K., MA
Ayachit, B R., MA

Lectr. (NM)
Lectr (NM)
Sr. Lectr. (H)
Lectr (H)
Tutor (H)
Sr. Lectr. (C)
Prof (W)
Lectr. (SA)
Lectr (VM)

Horticulture

Kathale, C. N, MSc(Agr)
Farooqi, M M, MS Calif
Kunte, Y N., MSc(Agr)

Lectr. (AA)
Prof (A)
Lectr (A)

Journalism

Kouppillai, V, MS Syr., BA
Eapen, K E, BA LLB MS
Cutchfield, R. P, MA Col

Lectr. (H)
Sr Lectr (H)
Lectr (H)

Law

Chaubal, V. B., BA LLB	Lectr (Sh)	Vyawahare, M. L., MA	Sr Lectr. (Sh)
Agrawal, N. S., BA LLB	Lectr (Sh)	Mandaokar, B. M., MA	Lectr. (Sh)
Bobde, G. C., BA LLB	Lectr (Sh)	Pande, Mrs. S., MA	Lectr (Sh)
Sinha, D. R., BA LLB	Lectr (Sh)	Bhalcrao, M. J., MA	Lectr (Sh)
Zaveri, C. N., BA LLB	Lectr (Sh)	Dange, R. K., MA	Lectr (Sh)
Janardhan Rao, S., LL.M. <i>Havy.</i>	Lectr (Sh)	Nande, Miss Kusum, MA	Lectr (SA)
Dhondarkar, V. V., MA LLB	Principal (LC)	Betawadkar, Miss Padma, MA	Lectr. (SA)
Wad, S. B., MA LLM	Lectr (LC)	Mohogaonkar, V. P., MA LLB	Prof., Principal (R)
Karekar, P. N., MA	Lectr (LC)	Sahasrabudhe, P. G., MA	Sr. Lectr. (GSe)
Padhye, V. R., BSc LLB	Lectr (LC)	Jahagirdar, B. R., MA	Lectr (GSe)
Gadkari, P. B., BA LLB	Lectr (LC)	Dokey, R. B., MA	Lectr. (AM)
Ranade, B. B., BA LLB	Lectr (LC)	Kalnawat, S. K., MA	Lectr. (AM)
Quazi, M. M., BA LLB	Lectr (LC)	Chavan, H. E., MA	Lectr. (B)
Chandurkar, M. N., MA LLB	Lectr (LC)	Hejib, P. G., MA	Lectr (SFS)
Sohoni, W. A., MA LLB	Lectr (SA)	Deshpande, A. D., MA	Lectr (G)
Godbole, D. G., BA LLB	Lectr (SA)	Padole, D. S., MA	Lectr. (A)
		Kher, Miss Kusum R., MA	Lectr. (V)
		Jawadekar, M. M., MA	Lectr (CW)
		Ghatokey, R. N., MA BT	Lectr. (Ch)
		Gurjar, K. D., MA BT	Lectr. (Ch)
		Wabgaonkar, M. S., MA	Lectr. U Dept
		Sathe, Miss Kusum, MA BT	Lectr. (CN)
		Velenkar, V. G., MA BT	Principal (DMV)
		Pathak, Y. M., MA LLB	Principal (MPM)
		Pande, S. M., MA	Lectr (CPB)
		Kawaley, V. G., MA	Lectr (Y)
		Dole, K. N., MA LLB	Lectr (Ak)
		Keche, M. B., MA	Lectr (Raj)

Library Science

Hote, D. M., BA DipLibSc	Lectr., U Dept
Deshmukh, P. D., BA DipLibSc	Lectr
Dutta, D. N., BA DipLibSc	Lectr
Kulkarni, S. M., BA DipLibSc	Lectr.

Local Self-Government and Public Administration

Murti, V. S., MPA <i>Havy.</i> MA	Reader, Hd. of U Dept.
Pundlik, D. A., MB BS DPH	†Lectr
Singh, V., BSc(Eng)	†Lectr.
Dave, S. L., MA	Lectr
Deshmukh, M. K., MA BSc LLB	Lectr
Valsan, E. H., MA	Lectr
Kolhekar, R. J., BA LLB	†Lectr.

Marathi

Kolte, V. B., MA PhD LLB	Principal (NM)
Pandit, B. S., MA	Lectr (NM)
Dolke, G. M., MA	Lectr (NM)
Muktibodh, S. M., MA	Lectr (NM)
Pendse, S. D., MA MOL PhD	Sr Lectr (H)
Deshpande, A. N., MA PhD	Lectr. (H)
Ayachit, R. P., MA	Lectr. (H)
Lohi, M. N., MA BT	Lectr (H)
Pandharipande, S. L., MA	Prof., Principal (C)
Sawalapurkar, P. K., BA	Sr Lectr (C)
Kulkarni, S. M., MA	Sr Lectr (C)
Baitule, M. K., MA	Lectr (C)
Paranjpe, B. S., MA	Lectr (C)
Varadpande, V. K., MA	Lectr. (M)
Purohit, V. S., MA	Tutor (M)
Marathe, Mrs. K., MA	Sr Lectr. (W)
Kolarkar, Miss Kusum, MA	Tutor (W)
Kulkarni, P. R., MA	Lectr (Sc)
Sarpawat, M. N., MA	Asst Lectr. (Sc)
Shanware, S. K., MA	Lectr (N)
Kolte, Mrs. Usha, MA	Lectr (N)
Vaidya, S. V., MA	Lectr (VM)
Sathe, Mrs. S., MA	Asst Lectr (VM)
Pathi, Miss A., MA	Asst Lectr (VM)
Natu, Mrs. M. G., MA	Lectr (VM)
Peshkar, K. V., MA	Lectr (VM)
Mohari, B. F., MA	Asst Lectr. (VM)

Mathematics

Thosar, Y. V., MSc	Asst Prof. (Sc)
Kulkarni, R. S., MSc	Lectr. (Sc)
Verma, Miss S., MA	Lectr (Sc)
Shastri, S. G., MSc	Lectr (Sc)
Patwardhan, G. K., MSc	Lectr (Sc)
Mulay, D. B., MSc	Lectr. (Sc)
Kubde, W. K., MSc	Lectr (Sc)
Hirurkar, S. N., MSc	Lectr (Sc)
Chandry, P. J., MA <i>Madr.</i>	Sr Lectr (H)
Kane, P. W., MSc	Lectr (H)
Shembekar, Miss P. A., MSc	Lectr. (H)
Altaf Ali, MSc	Lectr (H)
Shastri, N. A., MSc	Principal (M)
Mutatkar, V. L., MA BSc	Sr Lectr. (M)
Daftari, D. K., MSc	Lectr (M)
Mangalgi, S. R., MSc	Lectr (M)
Koranne, V. D., MSc	Lectr (M)
Gokhale, V. G., MSc	Lectr (M)
Phansalkar, J. R., MSc	Lectr. (VM)
Kaharsagar, N. S., MSc	Lectr (VM)
Pandit, P. B., MA	Lectr (VM)
Deshpande, V. T., MSc	Lectr (VM)
Banerjee, M., MSc	Lectr (VM)
Kayande, A. A., MSc	Lectr. (VM)
Ingole, S. N., MSc	Lectr. (VM)
Mohile, J. D., MSc	Asst Lectr (VM)
Mahajan, V. T., MSc LLB	Sr Lectr (GSc)
Tombe, S. D., MSc	Lectr (GSc)
Choube, S. S., MSc	Lectr (GSc)
Bhat, N. V., MSc	Lectr (GSc)
Rayar, Miss Mary, MA	Lectr (SFS)
Sunderajan, P. K., MA	Lectr (SFS)
Shastri, K. S. B., MA	Sr Lectr (AM)
Saraj, S. W., MSc	Lectr (AM)

Hardas, V M., MA
Ballal, A L, MA
Somalwar, S G, MA

Sociology

Wilkinson, T. S., MA *Agra*, PhD *Duke*

Vaidya, N S, MA LLB
Bhandarkar, P L, MA LLB
Pingle, M. D., MA BSc
Augustine, J., MA
Rajput, S N, MA

Statistics

Godambe, V P, MSc PhD
Rao, K Sheshgiri, MSc
Buche, A. B., MSc
Hege, Miss V S, MSc

Technology (LIT)

Mene, P S, DIC, BSc PhD *Lond* Prof, Dir
Mehta, T. N., DIC, BA BSc PhD *Lond*. Prof
Sardesai, V V, BE(Mech&Elect) *Bom* Reader
Behere, S N., MSc BT Lectr.
Rao, C. V N, BSc MSc(Tech) Lectr.
Rao, Rajagopala P., MSc Lectr.
Joshi, M. P., BSc(Tech) Lectr.
Tulpule, V. S., MSc Lectr.
Shrivastava, G. R., MSc Lectr.
Subramanian, N., BSc(Chem) MSc(Tech) Lectr.
Venkataschalam, K. A., MSc PhD Lectr.
Badhe, A. V., BSc(Tech) Lectr.
Kalele, M. G., DipEng(Mech&Electr) Lectr.
Khanikhoje, P. S. †Lectr.

Urdu

Naimuddin, S, MA DLatt Prof. (NM)
Rafuddin, S, MA PhD Lectr. (NM)
Hamid, M, MA LLB Lectr. (NM)
Ahmad, T, MA Lectr. (NM)
Khan, M. R., MA Lectr. (NM)
Zoharabegum, Miss, MA Lectr. (W)
Sayyada Naim Durdana, Mrs, MA Tutor (W)
Shaik, I B., MA Lectr. (VM)
Abidi, A. H., MA Lectr. (VM)
Khan, M. M., MA Lectr. (SFS)

Veterinary Science

Sakhadeo, S. V., MSc *Iowa* Prof, Principal (Vet)
Radkar, R K., BSc(Vet) Prof (Vet)
Hawaladar, M. K. Prof (Vet)
Mohetada, S. N., BSc(Vet) Prof (Vet)
Manyrekur, S L., BSc(Vet) PhD Prof (Vet)
Gupte, M S., BSc(Vet) Asst Prof. (Vet)
Joshua, M K., BSc(Vet) Asst Prof. (Vet)
Pandit, R V., BVSc Asst Prof. (Vet)
Shingatgen, M. K., BSc(Vet) Asst Prof (Vet)
Dhake, P R., BSc(Vet) Asst Prof (Vet)
Supe, T N., BSc(Agr) Asst Prof (Vet)
Gadre, Y T., BSc(Vet) Asst Prof. (Vet)
Jagrdar, H. V., BSc(Vet) Asst Prof (Vet)
Desai, R. T., BSc(Agr) Lectr. (Vet)

Lectr (Ch)
Lectr (DMV)
Principal (Y)

Sr. Lectr (H)
Lectr (H)
Lectr. (H)
Lectr (H)
Lectr. (H)
Lectr (Sh)

Kulkarni, V A., BSc(Vet)
Tadpatrikar, N S., BSc(Vet)
Velhankar, D P., BSc(Vet)
Bhandari, R. M., BSc(Vet)
Shurguppi, BSc(Vet)
Mangrulkar, V D., BSc(Agr)
Ghosh, R K., GBVc
Deb, R. N., GBVc
Harshey, D. B., GBVc

Lectr (Vet)
Lectr (Vet)
Lectr (Vet)
Lectr (Vet)
Lectr (Vet)
Lectr (Vet)
Lectr (AA)
Lectr (A)
Lectr (A)

Zoology

Murthy, K. V R, MSc Lectr (Sc)
Gopalkrishna, A., MSc PhD Lectr (Sc)
Rege, M S., MSc PhD Lectr (Sc)
Kashyap, H V, MSc PhD Lectr (Sc)
Jangi, B S, MSc PhD Lectr (Sc)
Rao, S N, MSc PhD Lectr (Sc)
Hardas, Miss S. G, MSc Lectr (Sc)
Ramaswamy, K R, MSc Sr Lectr (H)
Thakur, R. S., MSc Lectr. (H)
Jayaraj, M S., MSc Lectr. (H)
Khatib, S M H, MSc PhD Principal (VM)
Rangnekar, P. V., MSc PhD Prof (VM)
Dahake, D. L., MSc Lectr. (VM)
Deshpande, K. S, MSc Lectr (VM)
Vichare, V. B., MSc Lectr (VM)
Motghare, D. S., MSc Lectr (VM)
Huilgol, N V, MSc Asst. Lectr (VM)
Daterao, M S, MSc Asst Lectr (VM)
Daware, P. D., MSc Sr Lectr. (GSc)
Wajape, R W., MSc Lectr. (GSc)
Gurjar, K. G, MSc Lectr (GSc)
Jaurley, D S, MSc Lectr (GSc)
Phansaalkar, R B, MSc Sr Lectr (M)
Deshpande, P V, MSc Lectr (M)
Muthar, B M, MSc Lectr (M)
Dhabalia, M P, MSc Lectr (Sh)
Shandilya, M S, MSc Lectr (Sh)
Band, B N., MSc Lectr. (Ch)
Bidwai, Mrs P. R, MSc Lectr (N)
Patwardhan, S S, DSc Lectr (SFS)
Powar, C B, MSc Lectr (SFS)
Iyer, Miss S K., MSc Demr (SFS)

MEDICINE (M)

Anatomy

Robert, S. L., DTM, FRFSGlas, Prof.
MRCP Lectr.
Kane, M. G., MB BS Jr Lectr.
Hardas, K P, MB BS MSc(Med) Jr Lectr.
Kate, B. R., MB BS Jr Lectr.
Kadasane, D. K., MB BS Jr Lectr.
Kolte, P. M., MB BS Jr Lectr

Medicine

Berry, J N, MD DCH, MRCP Prof
Bhalkar, P L., MB BS Jr Lectr
Subhedar, B J, MD BS Lectr
Gowardhan, V M, MB BS DTM Med Officer
Bidwai, P. S, MD BS Reader
Jain, K L, MB BS Jr Lectr.
Madan, M. S, MB BS Resident Physician
Bhargava, H. S., MD BS Med. Officer

Deshmukh, P. Y., MB BS
 Choubey, B. S., MB BS
 Chaturvedi, L. N., MB BS
 Rajkondawar, V. L., MB BS

Jr Lectr
 Jr Registrar
 Mod Officer
 Jr Registrar

Agarwal, R. V., MB BS
 Grover, Mrs S., MB BS
 Hegste, M. D., MSc

Jr Lectr
 Jr Lectr
 Biochemist

Medicine, Forensic

Rosario, E. F., MB BS
 Franklin, C. A., MB BS

Lectr.
 Jr Lectr

Medicine, Preventive and Social

Ramadwar, D. K., MB BS MSc(Med)
 DPH DIH DTM

Prof
 Reader

Annwar, A. K., MPH *Johns H*

Midwifery and Gynaecology

Devi, Mrs P. K., MB MS, FRCS
 Shastri, Miss V. D., MB BS MO
 Dalsl, Mrs N. D., MB BS DGO
 Balhru, Miss S. J., MB BS MO
 Dhsbadghao, Miss S. B., MB BS

Prof
 Reader
 Lectr
 Tutor

Resident Obstetrician

Banerjee, Miss R. B., MB BS

Resident Obstetrician

Muzumdar, Miss S. B., MB BS
 Tulpale, Miss N. P., MB BS
 Mookadam, Miss N. G., MB BS

Jr Registrar
 Jr Registrar
 Jr Registrar

Ophthalmology

Ishwarachandra, MB MS DO
 Shukla, S. P., MB BS
 Lall, J. S. S., MB BS

Prof
 Jr Registrar
 Jr Registrar

Pædiatrics

Sur, A. M., MB BS DCH, MRCP
 Khandelwal, M. K., MB BS DCH
 Tiwari, J. C., MB BS

Reader
 Jr Lectr
 Jr Registrar

Pathology

Junnarkar, R. V., BSc MD BS
 Sharma, K. D., MB BS MSc(Med) *Mad*

Prof
 Reader

Hardas, Mrs U. D., MB BS MSc(Med)
 Patoria, N. K., MB BS
 Parthakar, M. T., BSc MB BS
 Moghe, K. V., MB BS MSc(Med)
 Vyawahare, S. M., MB BS
 Kher, Mrs., MB BS

Reader
 Jr Lectr
 Jr Lectr
 Jr Lectr
 Jr Lectr
 Jr Lectr

Pharmacology

Tiwari, N. M., BSc MB BS MSc(Med)
 Deshpande, V. R., MB BS MSc(Med)
 Dashputra, P. G., MB BS
 Kheidkar, P. R., MB BS
 Joshi, N. T., MB BS
 Jaiswal, C. L., MB BS
 Tiwaskar, H. V., MSc

Reader
 Lectr.
 Jr Lectr
 Jr Lectr
 Jr Lectr
 Jr Lectr
 Chemist

Physiology

Sen, S. C., MB MS DTM
 Vaishwanar, P. S., MB BS MSc(Med)
 Khandare, S. S., MB BS MSc(Med)
 Vaishwanar, Mrs Indu, MSc MB BS
 Sood, J. L., MB BS
 Deshpande, J. N., BSc MB BS
 Shukla, R. D., MB BS

Prof.
 Reader
 Reader
 Lectr
 Jr Lectr
 Jr Lectr
 Jr Lectr

Radiology

Tungar, S. V., MB BS
 Kathale, B. G., MB BS

Sr Radiologist
 Jr Radiologist

Surgery

Deodhar, D. S. C., MS, FRCS
 Gharpure, V. G., MB MS
 Wankar, V. N., MB BS
 Bhagwat, D. S., MB MS
 Marwah, V., MB BS, FRCS
 Dixit, S. D., MB BS
 Dube, M. S., MB BS
 Chuncholkar, V. S., MB BS
 Deshmukh, G. M., MB BS

Prof
 Sr Lectr
 Lectr
 Jr Registrar
 Reader
 Jr Lectr
 Sr. Anesthetist
 Jr Lectr

Med Officer in charge of Div of Ear,
 Nose and Throat

Tuberculosis

Mazumdar, S. S., MB BS DTD

Sr. Med Officer
 Med Officer
 Pathologist
 Anesthetist
 Med Officer

UNIVERSITY COLLEGES

[(LC), (LIT), etc symbols for reference to the Colleges in Teaching Staff list, *above*,
 LLB, BTech, etc., after the name of a coll means that courses are provided there for
 LLB, BTech, etc.]

LAW COLLEGE, Nagpur (LC) (tel. 2920)
 LLB, LLM Principal—S. Janardhan Rao,
 LLM *Haru.*, BSc

Nagpur (LIT) (tel. 3025). BTech, MTech
 Dir —P. S. Mene, DIC, BSc PhD *Lond.*

UNIVERSITY TRAINING COLLEGE, Nagpur
 (UTC). DipT, BT, MED Principal—S. N.
 Tamhane, MA MED

LAXMINARAYAN INSTITUTE OF TECHNOLOGY,
 U 2

UNIVERSITY TEACHING DEPARTMENTS

DEPT OF ANCIENT INDIAN HISTORY AND CULTURE. MA, PhD Prof & Hd of Dept.—V. V. Mirashi, MA D Litt

DEPT. OF BIOCHEMISTRY MSc, PhD. Prof & Hd of Dept.—M. C. Nath, DSc, FNI, FRIC

DEPT OF GEOLOGY. BSc, MSc, PhD. Prof. & Hd. of Dept.—K. Sripada Rao, MSc, FGS, FNI.

DEPT OF LIBRARY SCIENCE DipLibSc. Hd of Dept.—P. S. Phadke, BA DipLibSc

DEPT OF PHARMACY BPharm. Lectr. in charge of Dept.—V. Subbarao, MPharm

DEPT OF POLITICAL SCIENCE MA, PhD. Prof & Hd. of Dept.—N. R. Deshpande, AM PhD Col, MA LLB.

DEPT OF POSTGRADUATE TEACHING IN HUMANITIES MA* Officer-in-Charge—V. V. Mirashi, MA D Litt

DEPT. OF PUBLIC ADMINISTRATION AND LOCAL SELF-GOVT. MA, PhD, DipinLSG Reader & Hd of Dept.—V. S. Murti, MPA Harv., MA

OTHER COLLEGES ADMITTED TO THE PRIVILEGES OF THE UNIVERSITY

AKOLA, *Govt College of Agriculture* (AA) BSc(Agr) Principal—L. Sreenivas, MS Texas.

AKOLA, *Govt Training College* (GTC) BT Principal—R. H. Munje, MSc Bont, DipEd Brist

AKOLA, *Sitabai Arts College* (SA) BA, BCom, BSc, LLB Principal—R. K. Page, MA LLB

AKOT, *Arts College* (Ak) BA. Principal—G. M. Somvanshi, MA BT.

AMRAVATI, *Govt Dip T Inst. for Men* (DipTM), DipT Principal—S. V. Kelkar, Assoc Inst. of Educn, Lond, BSc MED PhD

AMRAVATI, *Govt Dip T Inst. for Women* (DipTW) DipT Principal—Mrs. N. Sathe, MA BT

AMRAVATI, *Govt. Postgraduate Basic Training College* (ABT). BT(Basic) Principal—S. V. Kelkar, Assoc Inst of Educn., Lond, BSc MED PhD

AMRAVATI, *Raj Mahavidyalaya* (Raj) BA. Principal—G. R. Kotwal, MA BLitt Oxon

AMRAVATI, *Shree Shwari College* (Sh) BA, BSc, BSc(Agr), BCom, MCom, LLB, BT Principal—N. C. Deshmukh, MCom

AMRAVATI, *Vidarbha Ayurved Mahavidyalaya* (VAM) BAMS Principal—P. D. Mulay

AMRAVATI, *Vidarbha Mahavidyalaya* (VM) BA, MA, BSc, MSc. Principal—S. M. H. Khatib, MSc PhD

BULDANA, *Jyamata Mahavidyalaya* (B) BA Principal—R. N. Kharche, MA.

CHANDA, *Janata College of Education* (JT) DipT, BT Principal—S. K. Jha, BSc MED

CHANDA, *Janata Mahavidyalaya* (Ch). BA Principal—G. H. Mahajan, MA

GONDIA, *N M D Mahavidyalaya* (G) BA, BCom Principal—K. K. Verma, MA BT LLB

KHAMGAON, *G. S. College of Science & Arts* (GSc) BA, BCom, BSc Principal—K. M. Munshi, MSc.

NAGPUR, *College of Agriculture* (A) (tel 2378) BSc(Agr), MSc(Agr). Principal—R. P. Asthana, DIC, MSc PhD

NAGPUR, *College of Science* (Sc) (tel : 2481). BSc, MSc, MA(Maths), PhD, DSc Principal—L. B. Kajale, DSc

NAGPUR, *C P & Bazar Societies Arts College* (CPB) BA Principal—R. B. Murkute, MA LLB.

NAGPUR, *Dharwate National College* (N) BA Principal—M. M. Lanjewar, MA BCom LLB

NAGPUR, *Dharampeth Arts & Science Mahavidyalaya* (DMV). BA Principal—V. G. Velankar, MA BT

NAGPUR, *Govt Polytechnic* (GPN) (tel 2483). Dipls in Art and Archit Principal—K. N. Tuloo, BSc(Mech&Electr) Ban.

NAGPUR, *G S College of Economics & Commerce* (CN) (tel 2760) BCom, MCom Principal—M. R. Tokhi, MA(Econ) BCom LLB Luck

NAGPUR, *Hislop College* (H) (tel. 2979). BA, MA, BSc, Dipl & Cert in Journalism Principal—D. G. Moses, MA Madr, AM PhD Col

NAGPUR, *Lady Amritban Daga College for Women* (W) (tel. 2304) BA, BSc(HomeSci) Principal—Miss M. A. Saldanha, MA MS MED PhD

NAGPUR, *Medical College* (M) (tel. 2488). MB BS, MD, MS, MO, MSc(Med), PhD, Dipl. in Ophthalmol. Dean—G. V. Barve, MS

NAGPUR, *M.M. College of Science* (M). BSc. Principal—N. A. Shastri, MSc

NAGPUR, *Nagpur Mahavidyalaya* (NM) (tel. 2358) BA, MA. Principal—V. B. Kolve, MA PhD LLB.

NAGPUR, *Nagpur Veterinary College*. BVSc Principal—S. V. Sakhadeo, MSc Iowa, BSc(Vet)

NAGPUR, *Public Health Institute* (PH) DPH Principal—D. A. Pundlik, MB BS DPH MPH

NAGPUR, *Regional Engineering College* (E) BE
Principal—A De'Souza, BA BE

NAGPUR, *S B City College* (C) (tel. 2860)
BA Principal—S L Pandhanpande, MA

NAGPUR, *St Francis De Sales' College* (SFS)
BA, BSc Principal—M M. Balaguer, MA PhD

WARDHA, *G S College of Commerce* (CW)
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PhD Bcom

WARDHA, *Swavalamb College of Education* (S)
DipT Principal—N P Keslia, BA MED

WARDHA, *Yeshwant Arts College* (Y) BA
Principal—S. G Somaiwar, MA

WARUD, *Mahatma Fule Mahavidyalaya* (MFM)
BA Principal—Y M. Pathak, MA LLB

WASHIM, *Rajasthan Aryan College* (R) BA
Principal—V P Mohogaoankar, MA LLB

YEOTMAL, *Amolakchand Mahavidyalaya* (AM)
BA, BSc Principal—N B Paradkar, MA.

YEOTMAL, *Vanyya Mahavidyalaya* (V). BCom.
Principal—S. D. Datey, MA LLB.

ADMINISTRATIVE AND OTHER STAFF

Asst Registrar (Admin) M R Thakur, MA
LLB Asst Registrar (Finance) S. R. Gupte,
BA, LLB Asst Registrar M P Mardikar,
MA LLB. Officer-in-Charge, Phys Educn
M P Major Univ Med Officer P. U. Desh-

pande, MB BS Supt., Univ. Hostels. Di P S
Khanchoje Sec (*ex officio*) Students' Informa-
tion Bureau : M R Thakur, MA LLB Lady
Warden, Sadaparva Hostel Mrs. S Didolkar.

GENERAL INFORMATION

The univ. was establd in 1923 Teaching is
provided partly through the affiliated colleges and
partly through the teaching depts of the univ
itself

CONSTITUTION The court is the supreme
governing body with power to revise the acts of
the executive and academic councils. The execu-
tive council is the chief executive body ; it con-
trols univ funds and, subject to certain limitations,
it makes the ordinances. The executive council
consists of the vice-chancellor, the treasurer, the
deans of facs, 5 members elected by court, 2
principals of non-govt. colls., 4 members (elected
by academic council) who are not principals of
non-govt. colls., and 3 members nominated by
the state govt. The academic council, the chief
academic body, constitutes facs and depts of
study, prepares syllabuses and recommends
ordinances relating to admission to exams and
degrees. The facs (*see below*) recommend sub-
ject syllabuses to the academic council on the
recommendation of the bds of studies, no ordi-
nances relating to courses of study, exam standards
and other academic matters are made by the
executive council unless the opinion of the rele-
vant fac has been obtained. The facs constitute
bds. of studies which prepare courses of study.
There is also a statutory finance cttee with power
to examine receipts and expenditure, to allocate
funds and to sanction expenditure.

INCOME (1959-60) Rs 2,712,137 (govt, 24
per cent ; fees, 58 per cent ; other, 18 per cent)

FACULTIES AND DEANS *Agric*, Prof R P.
Asthana, *arts*, Prof D. G. Moses ; *comm.*, Prof
M. R. Tokhi ; *educn*, R. H. Munje, *engin &
technol*, Prof P S Mene ; *law*, Justice S P
Kotwal, *med.*, Dr G B Barve, *sci*, Prof L B.
Kajale.

UNIVERSITY LIBRARY 97,389 vols. (incl. libr.
of univ teaching depts)

ADMISSION Admission to the univ is confined
to students who have passed the high sch. cert.
exam held under CP High Sch Educn Act of
1922 or bd of secondary educn, Madhya Pradesh
or Vidarbha or any other recognized equivalent
exam. The univ. began pre-univ exams in
1957-58

DEGREES *Agric*—BSc(Agr), 3 yrs after pre-
sci. (agric.), MSc(Agr), 2 yrs' study after BSc
(Agr), PhD, open to MScs of 2 yrs.' standing
by thesis, BVSc, 4 yrs after pre-professl
Arts—BA, 3 yrs. after pre-arts, MA, 2 yrs'
study after BA, PhD, open to MAs of 2 yrs'
standing by thesis, DLitt, open to PhDs of
3 yrs.' standing and MAs of 8 yrs' standing,
for original contribution to learning. *Comm.*—
BCom, 3 yrs after pre-comm, MCom, 2 yrs
after BCom, PhD, open to MComs of 2 yrs'
standing by thesis. *Educn*—BT, 1 yr's post-
grad study, MED, open to BTs (and certain
other persons recommended by the academic
council) by exam and thesis ; PhD, open to
MEDs and MAs and MScs (with BT specially
permitted) by thesis. *Engin & technol*—BE
(civil, electr, mech.), 3 yrs after pre-professl
(engin & technol), BTech (oil technol and
chem engin), 4 yrs. after pre-professl. (engin
& technol), MTech, open to BTechs of 1 yr's
standing, BPharm, 3 yrs. after pre-professl.
(med. and pharm) *Law*—LLB, 2 yrs. after
approved bachelor's degree, LLM, 2 yrs.' course
for approved grads. in law ; LLD, open to
approved LLMs of 3 yrs' standing by thesis.
Med.—MB BS, 4½ yrs after pre-professl. med.,
MD, MS & MO, 2 yrs.' study and 6 months'
work after MB BS, MSc(Med), 2 yrs.' study

and res. after MB BS, PhD(Med), open to MSc(Med) of 2 yrs.' standing by thesis. Sci—BSc, 3 yrs after pre-sci, BSc(HomeSc), 4 yrs after SSC, MSc, 2 yrs' study after BSc, PhD, open to MScs of 2 yrs' standing by thesis, DSc, 3 yrs after MSc, for 1cs conducive to advancement of sci. All higher degrees are open to approved grads of other univs.

DIPLOMAS Postgrad. library sci, ophthalmol (after MB BS), journalism, 1 yr. Other local self-govt, teaching, 1 yr, art, 3 yrs, archit, 4 yrs from SSC exam.

EXAMINATIONS IN ORIENTAL LEARNING The univ. holds jr, sr and higher dipl. exams in Arabic, Pali, Persian, Prakrit and Sanskrit for which courses are provided in certain private instns recognized for the purpose. In Sanskrit, Pali and Prakrit, the following titles are awarded: *Prajna* (jr exam), *Visharad* (sr exam) and *Shastri* (higher exam), in Arabic *Maulvi* (jr exam), *Maulvi Alim* (sr exam) and *Maulvi Fazil* (higher exam), in Persian *Munshi* (jr exam), *Munshi Alim* (sr exam) and *Munshi Fazil* (higher exam). Duration of course; jr exams—none specified, sr exams—2 yrs from corresponding jr exam, higher exams—2 yrs from corresponding sr exam.

STUDY LEAVE There are no univ. regns governing the granting of study leave.

FEES Exam fees Pre-arts, pre-comm., Rs 30, pre-sci, pre-sci (agric.), pre-professl (engin, technol & med), inter home sci, Rs 35, BA, BCom, BT, Rs 40, BVSc (1st, 2nd, 3rd), Rs 40 each, BSc, BSc(Agr), Rs 45; BSc (HomeSc), Rs 60, previous LLB, Rs 35, final LLB, Rs 40, 1st BE, Rs 45, 2nd BE, Rs 50,

final BE, Rs. 60; 1st BPharm, Rs 40, final BPharm, Rs 40, 1st BTech, final BTech pt. I & pt. II, Rs 40 each, 1st MB BS, Rs 40, 2nd MB BS, Rs 60, final MB BS, Rs 60, 1st BAMS, Rs 40, MA & MSc (maths) pt. I, Rs 35, pt. II, Rs 35, MA & MSc (subs other than maths) pt. I, Rs 35, pt. II, Rs 40; MCom pt. I, Rs 30, pt. II, Rs 30, MSc(Agr) pts I & II, Rs 35; MSc(Tech), MEd, MD, MS, MO, MSc(Med), Rs 100, PhD, Rs 175, LL.M., LL.D, DLitt, DSc, Rs 200. Diplomas: art, Rs 65, journalism, Rs 50, library sci, Rs 45, local self-govt, Rs 40; ophthalmol, Rs 75; teaching, Rs 25.

ACADEMIC YEAR. June to March 2 terms of 17 wks each.

LANGUAGE OF INSTRUCTION Gen. educn (facs of arts & sci) Engl, Hindi and Marathi media for pre-arts, pre-sci and BA classes, Engl. alone for postgrad classes. *Professl educn* Hindi and Marathi media for pre-comm., BCom, DipT and BT, Engl. for remaining courses.

STUDENT RESIDENCES. The univ. maintains two hostels for boys and one for girls accommodating 250 and 30 students respectively.

STUDENTS' INFORMATION BUREAU, Univ. Building (tel. 2382) Advises and helps students who go abroad for advanced studies.

PUBLICATIONS *Calendar*, 2 vols. (every 3 yrs, Rs 2 per vol.), *Annual Report* (free), *Minutes of Univ. Meetings* (annual, free); *Prospectus* (annual, from 50 nPs to 75 nPs according to exams), *Exam Papers* (annual, from 50 nPs to Rs 2 according to exams), *Extension Lectures* (every 2 yrs, price as fixed).

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	20,107	—
Women	3,252	—
Total	23,359	—

Distribution by Faculties: Agric, 1236, arts, 9456, comm, 4174, educn, 845, engin & technol, 560, law, 521, med, 1123, sci, 5444. Total 23,359.

Included in the figures above are —

Intermediate or Pre-University students, 8508
Postgraduate students, 1271

New admissions, 8361

Students from other countries, 24 (Countries from which largest numbers came: Africa, 9, Nepal, 8)

DEGREES AWARDED (1959-60) Agric BSc (Agr), 87, PhD, 1 Arts BA, 738, MA, 182, PhD, 6, DLitt, 1 Comm BCom, 123; MCom, 31 Educn. BT(Gen), 126; BT(Basic), 6, MEd, 11. Law LLB, 71 Med MB BS, 64, MSc(Med), 2, MD, 1 Sci: BSc, 200, MSc, 59, BSc(HomeSc), 13, PhD, 2, BTech, 6; BE, 18, BPharm, 7.

DIPLOMAS AWARDED (1959-60) Archit, 13; art, 11, engin, 163, journalism, 8, library sci, 27; local self-govt, 14, oriental learning jr, 27, sr, 9, higher 2, teaching, 468.

OSMANIA UNIVERSITY*

Founded 1918

Postal Address: Hyderabad, Andhra Pradesh, South India

Cables and Telegrams: University, Hyderabad, Deccan, 7

Telephone: 742

CHANCELLOR—THE GOVERNOR OF ANDHRA PRADESH (*ex officio*)

PRO-CHANCELLOR—PRINCE MUKARRAM JAH BAHADUR, BA Oxon, MA Camb

VICE-CHANCELLOR—D. SADASIYA REDDI, MA Oxon, Hon DLitt And

REGISTRAR—K. N. ACHARYA, MA Mys

TEACHING STAFF

[†=Part-Time]

UNIVERSITY COLLEGE OF AGRICULTURE

Postal Address: Hyderabad, Deccan, 7

Telephone: 2402, Extn. 20

Principal—H. A. RAZVI, BAg Poona, PhD Wales

Agricultural Botany			
Razvi, H. A., BAg Poona, PhD Wales	Prof.	Bhaskaran, K., BScAg Madr., MS Kansas	Lectr.
Ramana Rao, B. V., MSc Ban	Reader	Yaseen, M., MS Kansas, BSc(Agr)	Lectr.
Khan, M. A. A., MSc(Agr) Karn	Lectr.	Ahmed, K., BSc(Agr)	Lectr.
Khan, S. T. A., MS Oklahoma, BSc(Agr)	Lectr.	Ahmedulla, M., BScAg DH Madr.	Lectr.
Shivraj, A., MSc(Agr)	Lectr.	Rao, Y. Y., MSc(Agr) And	Lectr.

Agricultural Chemistry		Animal Husbandry and Veterinary Science	
Rao, T. M. V., BSc Bom, PhD Wis	Reader	Kainani, B. T., MSc Bom, PhD Corn.	Reader
Murthy, S. B., BA BSc And, MSc(Agr) Alld	Lectr.	Ahmed, T.	Lectr.
Yadguri, N., MSc(Agr)	Lectr.	Nomani, Z. A., BSc(Agr)	Lectr.

Agricultural Economics		Farm	
Suryanarayana, K. S., BScAg Madr., MA Nag	Reader	Khan, S. R., BSc Brist	Farm Supt
Swamy, M. S. K., MA	Lectr.		
Sarthy, P. B., MA	Lectr.		

Agricultural Engineering		Home Science	
Satyanarayana Rao, T., BScAg Bom., BA Alld	Lectr.	Bhatgava, Mis. E. M., BSc Luck, MS Wis	Lectr.
Brewar, B. R., BSc(Agr) Nag, BSc(AgrEng) Alld	Lectr.		

Agriculture and Horticulture		Plant Breeding and Entomology	
...		Ali, M. H., MSc Mun, PhD Kansas	Prof
Suryanarayana Rao, R., BScAg Madr., MS Kansas	Prof	Rao, A. A., BScAg PhD Madr	Reader
		Ahmed, A., MSc(Agr)	Lectr.
	Reader	Subbiah, J., MSc(Agr) And, DIH Madr	Lectr.

* Member of the Association of Universities of the British Commonwealth

UNIVERSITY COLLEGE OF ARTS AND COMMERCE

Postal Address . Hyderabad, Deccan, 7

Telephone : 2402, Extn 25

Principal—M. A. QADIR, BSc Lond

Arabic

Khan, A. M., MA DLitt *Cambr*, PhD *Camb.* Prof
Fazl, S. A., MA PhD Reader
Khan, A. H., MA BOL *Madr* Lectr.
Sabur, M. A., MA Lectr.

Commerce

Ramanadham, V. V., PhD *And. & Lond*,
MCom Prof
Khan, I. H., BCom *Lond* Reader
Rao, B. P., BCom *And*, MCom LLB *Luck*. Reader
Bhargava, R. S., MCom *Luck* Lectr.
Somaiya Ram, C., MCom LLB Lectr.
Chedda, T. R., MCom *Pany (I)* Lectr.
Ahmed, M. S., BCom MA Lectr.
Vijayaradh, S. P., MCom *And*. Lectr.

Economics

Qadir, M. A., BSc *Lond* Prof
Husain, S. A., MA LLB *Luck*, LT *Alld* Reader
Hasan, S. F., MA Reader
Ramkrishna, K. T., MA MLitt *Madr* Reader
Geelani, M. A., MA Lectr.
Nagaraj, A., MA Lectr.

English

Kumar, S. K., MA *Pany (I)*, PhD *Camb* Prof
Siddiqi, M. N., BA *Oxon*, MA Reader
Shahane, V. A., MA LLB *Bom*,
PhD *Leeds* Reader
Samuel, M. S., MA *Madr* Reader
Sharma, P. L. N., MA *Nag* Reader
Joshi, B. N., MA *Bom*. Reader
Sastry, J. S., MA *Madr*. Reader
Sirajuddin, S., MA Reader
Mirza, T. A., MA Lectr.

French

Chourasqui, S. Hon. Prof.
Bhogle, A. D. (on leave) Lectr.
Baccalarue'at, R. N. Lectr.

Geography

Chaturvedi, B. N., MA *Calc & Osm* Reader
Subramaniam, M. J., MA Lectr.
Hameed, S. A., BSc MA BT *Alig*. Lectr.
Prasad, D., MA *Madr*. Lectr.
Manzoor Alah, MA *Alig*. Lectr.
Mukherji, A. B., MA *Alld*, PhD *Loustana* Lectr.
Reddy, K. S., MA Lectr.

German

Rodi, F. Hon. Prof.
Khan, T. A. †Lectr.

Hindi

Pande, R. N., MA LLB *Ban*, PhD *Nag*. Reader
Pandeya, R. K., MA *Agra*, LT *Alld*.
PhD Reader
Khandelwal, R. K., MA *Luck* Lectr.
Gyan Asthana, Mrs., MA Lectr.

History

Srinivasachar, MA *Madr*, PhD *Lond* Prof
Sajjanlal, Q. A., MA *Bom*. Reader
Khalidi, A. N., DLitt *Cairo*, MA Reader
Natarajan, S., MA MLitt *Annam* Reader

Journalism

Kumar, S. K., MA *Pany (I)*, PhD *Camb* Hd of Dept
Bawa, M., MA *Syr* Lectr.

Kannada

Patwardi, R. R., MA *Mys* Reader
Ramaswami, B., MA *Mys* Lectr.
Ramchandra Rao, MA *Madr*. Lectr.

Library Science

Yazdani, M. Hd of Dept

Marathi

Madhekar, R. B., MA *Madr*. Reader
Kahalekar, B. C., MA LLB Lectr.
Kulkarni, V. D., MA Lectr.

Persian

Rasheed, G. D., MA PhD Reader
Mannan, A., MA Lectr.
Basheerunnisa, Begum, MA Lectr.

Philosophy

Salahuddin, M., MA *Dacca* Reader
Wahiduddin, S., PhD *Marburg* Reader
Reddy, M., MA PhD Lectr.
Khan, D. A., MA Lectr.
Manohai, BT MA *Calc* Lectr.

Political Science

Raygopal, P. V., MA *Madr*. Reader
Khan, R. A., MA *Madr* Lectr.
Muttiah, PhD *Lond & Osm*, MA Lectr.
Reddy, G. R., MA MSc *Lond* Lectr.
Girgiani, J. M., MA Lectr.

Religion and Culture

Shore, S. H., MA PhD Reader
Yousufuddin, MA PhD Reader
Jaffer, R. Q., MA Lectr.

Siddiqui, H. M. A , Moulvi Fazal <i>Panip(I)</i>	Lectr.	Tamil	
Hanuman Rao, I., MA	Lectr	Sundaram, P M , MA <i>Annam.</i>	Reader
		Manickam, T. S , MA <i>Madr.</i>	Lectr.
Sanskrit		Telugu	
Sharma, A , MA <i>Alld</i> , PhD <i>Munich</i>	Prof	Laxmiranjanam, K , MA <i>Madr</i>	Prof.
Rao, K., MA <i>Cale & Nag</i> , DipEd	Reader	Durgabh, P , MA PhD	Lectr
Bhat, B. K., MA <i>Bom. & Osm.</i>	Reader	Rama Rayu, B , MA PhD	Reader
Shastry, MA <i>Delhi</i>	Lectr.	Venkataavadhani, D , MA <i>And</i> , PhD	Reader
Rao, M G , MA	Lectr	Rangacharloo, C , Siromani <i>Madr</i> , Vidwan	Lectr
Sociology		Urdu	
Kanga, A , MA <i>Harv.</i>	Lectr	Sarwari, A. Q , MA LLB	Prof
Askari, S. H., MA	Lectr.	Mohammad, S , MA	Reader
Mudraj, G. N. R., MA	Lectr	Qatcel, A. H , MA PhD	Reader
Fatima Shujaat, MA PhD	Lectr	Shuttari, S H , MA	Lectr.

UNIVERSITY COLLEGE OF EDUCATION

Postal Address Hyderabad, Deccan, 7

Principal—Mrs SYEDA ZOHRA BEGUM, MA *Alg*, MEd *Leeds*

Chari, K. V., MA Lond, MEd	Prof	Tirtha, N. V., MEd BSc Mysr, MA	
Farooq Husain, S H, BSc	Reader	PhD Stan.	(on leave) Lectr.
Khan, I. A., MA Aligarh, MEd	Reader	Kamal, A., MA Madr., EdB Glas	Lectr.
Prasad, B., MA MEd	Reader	Naidu, L. N., BSc MEd	Lectr
Subba Rao, C. S., MA And, MEd	Lectr	Radhakrishna, K., BSc And, MA	
Deshpande, M. R., MSc MEd	Lectr	MEd Ban	Lectr.

UNIVERSITY COLLEGE OF ENGINEERING

Postal Address · Hyderabad, Deccan, 7

Telephone : 35017

Principal—A. ALI, BSc *Madr* & *Lond*

Civil Engineering

Asithana, K C, MS <i>Col.</i> , PhD <i>Corn.</i> , BE	Prof.	MSc Agri	Reader
Rasheed, M A, BA	BE	Vithal, D. V. R., BE <i>Madr.</i>	(on leave) Lectr.
Qadri, S M S, BSc BE		Rao, B. H., BE	Lectr.
Ali, M A, BSc <i>N.Z.</i>		Narsimhan, Y, BE	Lectr.
Fakhruddin, M, BE		Lakshminarayana, C., BE	Lectr
Imaul, S M., BE			
Husain, S T, BE MS		Mechanical Engineering	
Jawalkar, N R, MA		Ali, A, BSc <i>Madr & Lond.</i>	Prof.
Palnitkar, V G, BE	(on leave)	Ramanayacharya, K., BScEng <i>Ban.</i>	Reader
Ansari, M A H, BE		Vithal, N P R, BE <i>Ruput.</i>	Lectr.
Murthy, B S, BE		Kumatawamy, M A, BSc	Lectr.
Badruddin, S, ME <i>Calc</i>		Rao, T. V. L., BE <i>Raj</i>	(on leave) Lectr
Rangaswami, P, MSc <i>Mich</i> , BE		Mannan, MA BE	(on leave) Lectr
Reddy, M, ME <i>Madr</i> , BE		Narsimha Rao, K, BE <i>Mys</i>	Lectr
Venkatadri, C, MS BE		Reddy, V R. K., BSc <i>Madr</i> , BE <i>Mys</i>	Lectr
Rao, R K, BE	(on leave)		
Laxminath, BE MSc <i>Poona</i>		Mining Engineering	
Murthy, G R K, BE		Krishnagiri, H S, BSc <i>Madr</i>	Prof
Altat-ur-Rahman, ME		Krishnamurthy, K. K., BSc <i>Ban.</i>	Asst Prof.
Saroja, Mrs B V K, MSc <i>Mys</i>			

Electrical Engineering

Gadgil, V. M., BSc <i>Madr. & Lond.</i>	Prof	Reddy, V. M., MSc (Tech) <i>And</i>	Lectr
Nair, K. K., MSc	Prof	Ramchander, G., BE	Lectr
		Ali, MA MTech	Lectr

UNIVERSITY COLLEGE OF SCIENCE

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Telephone: 2402, Extn. 38

Principal—N V SUBBARAO, DSc And, DIC, PhD Lond, FRIC

Botany

Salam, A, MSc PhD Belf
Saxena, M R, MSc PhD Lond
Khan, F N, MSc
Zafar, A R, MSc PhD
Hashim, M, MSc PhD
Deshpande, K B, MSc PhD
Lakshminarayana, MSc PhD
Swami, S., MSc
Ramayya, N, MSc
Rao, K. V. N, MSc
Rao, D N, MSc PhD
Rama Rao, P., MSc

Seshiah, MSc PhD Saug Lectr
Rao, A A, MSc Micro-Analyst
Ramiah, K, MSc PhD Instrumental Analyst

English

Puashotam Rao, K, MA Reader
Tajuddin, M, MA Lectr
Rao, R, MA Lectr
Mukerjee, Mrs Numala, MA Agria, PhD Louisiana Lectr

Geology

Hayakawa Prof
Reader

Balakrishna, S, MSc And, PhD Reader
Rao, J., MSc Ban. Lectr
Hussain, B, MSc Lectr
Leelanandam, MSc And. Lectr
Raja, N., MSc PhD (on leave) Lectr
Reddy, R S., MSc Lectr

Mathematics

Rao, R, MA Reader
Ahmed, A, MA PhD Lond Reader
Vishwanatham, B., MA PhD Reader
Chari, R V, MA Madr, BT Mys Reader
Ahsan, M, MSc Ahg Lectr
Dwarka, D. V., MA Lectr
Narayana, G. L., MA PhD Lectr
Ramakanth, MA PhD Lectr
Lakshminantham, V., MA PhD Lectr

Chemistry

Subba Rao, N V., DSc And., DIC, PhD Lond., FRIC
Shah, M, MSc PhD Lond (on leave)
Venkobacharya, MSc
Hanmanth Rao, D., MS Mass, MSc
Srinivasan, V. R., MSc Madr., PhD Leeds, DiplGerman
Rahman, A., MSc
Ananthan, B N, MSc
Rao, J J, MSc DiplGerman DiplRussian
Krishnamurthy, B R., MSc PhD
Ahmed, K, MSc
Subrahmanyan, B, MSc
Phathak, S R, MSc
Navaneeth Rao, T, MSc PhD
Sundaram, E V, MSc
Ratnam, C. V, MSc PhD
Sundaramurthy, V, MSc PhD
Mathur, K. R, MSc
Reddy, M L. N, MSc
Khan, W A., MSc PhD
Ramchander, G, MSc PhD

Physics

Iyengar, S, MSc PhD Reader
Puranik, P G, MSc PhD Reader
Krishna Rao, K. V, MSc And., PhD Reader
Deshpande, V, MSc PhD Reader
Rao, N R., MSc PhD And Reader
Ramavataram, K, MSc PhD Reader
Rao, A V, MSc And, PhD Lectr
Sheshagiri Rao, T., MSc And, PhD Lectr
Goswamy, B. K, MSc PhD Lectr
Patki, K G., MSc Lectr
Rehman, A, MSc Lectr
Venkatchary, BT MSc Lectr
Venkatramayya, MSc Lectr
Sastri, G S, MSc And., PhD Lond Lectr
Murthy, D B, MSc PhD Lectr
Samullah, M, MSc Lectr

Statistics

Pakshirajan, R B., MSc PhD Oregon Reader
Chitgopekar, S. S., MA Poona Lectr
Reddy, P N, MA Karn. Lectr

Zoology		Rao, P. N., MSc PhD	Reader
Singh, R. S. N., MSc <i>Alg.</i> , PhD		Todd, S. R. M., MSc PhD	Reader
DSc <i>Lond</i>	Prof	Shareef, A., MSc	Lectr
Khan, O., PhD <i>Lond</i> , MSc	Reader	Sahm, J. B., MSc	Lectr
Mohsin, S. M., MSc PhD	Reader	Rao, B. K., MSc PhD	Lectr
Ali, S. M., MSc PhD	Reader	Humayun, R. A., MSc	Lectr.
Suxena, K. R., MSc	Reader	Das, N. M., MSc PhD	Lectr.
Shamsuddin Qadri, MSc PhD <i>Lond</i>			

UNIVERSITY COLLEGE OF VETERINARY SCIENCE AND ANIMAL HUSBANDRY

Postal Address. Hyderabad, Deccan, 7

Telephone 2402, Extn. 35

Principal—M HABIB KHAN (on leave)

Anatomy		Pathology and Bacteriology	
Kanan, C. V., BSc <i>Madras</i>	(on leave) Reader	Imaduddin, M., MS <i>Mich.</i> , MSc	Lectr
Srinivasan, P., MSc BVSc <i>Madras</i>	Reader	Pargaonker, V. Y.	Reader
Reddy, V. K., BVSc	(on leave) Lectr	Reddy, B., BVSc	Lectr
Naidu, V. R., BVSc	(on leave) Lectr	Siddiqui, S. M., BVSc PhD <i>Madras</i>	Lectr
Reddy, D., BVSc	Lectr	Ramakrishna, K., BVSc	Lectr
Animal Husbandry		Pharmacology	
Venkateswara Rao, C., BVSc MSc <i>Madras</i> , MS	Prof	Rao, B. V., BVSc MSc <i>Madras</i>	Lectr
Jatker, V., Dip in VetSc	Reader		
Reddy, O. S. R., BVSc PhD <i>Madras</i>	Lectr	Physiology	
Rao, N. S., BVSc	Lectr.	Husain, M. A., Reader, Actg Principal	
Hafeezuddin, M., BVSc	Lectr	Sadekar, V. D., BVSc <i>Calc.</i> , BSc	Lectr
Parthie, M. R., BSc(Vet) <i>Bom.</i> , MVSc <i>Agra</i>	Lectr	Rao, A. R., MVSc <i>Agra</i>	Lectr
		Siddiqui, R. H., BVSc BSc	Lectr.
Medicine		Surgery	
Ramchandra Rao, V.	Lectr	Reddy, V. R., MS <i>Kansas</i> , BVSc	Lectr
Raghavan, R. S., BVSc, MS	Lectr	Walullah, M., BVSc	Lectr
Narasimhalu, BVSc	Lectr	Mudaliar, A. S. R., BVSc	Lectr

ADMINISTRATIVE AND OTHER STAFF

REGISTRAR'S OFFICE. Dep Registrar & Controller of Exams L. B. Deshpande, BSc *Madras*. Asst Controller of Exams Tirumalacharya, MA. Sr Asst Registrar Balkishtiah. Asst Registrar (Academic) V. V. Raghaviah, BA. Asst Registrar (Admin). K. Rajalingam, BA. Asst Registrar (Treasury). Syed Mamood Ali, BA. Asst Officer (Audit) Ramachandra Rao, BA. Asst Officer (Local Audit). R. Subramaniam. Youth Welfare Officer G. Rabbani, MA. Chief Supt (Typing and Confidential Section) G. M. Farooqui.

OTHER OFFICERS Co-ordinating Officer, U G C Unit : N. V. Subbarao, DSc *And.*, DIC,

PhD *Lond*, FRIC. Sp. Officer for Implementation of Univ Act : S. Raghunathan, MSc. Librarian : M. Yazdani, BA. Dip in LSci *Madras*. Resident Med Officer : P. L. Narayan Rao. Manager, Univ. Publications & Press : A. S. R. Anjaneyulu, BA. Chief Warden, Univ. Hostels & Messes : K. S. Iyengar, BA. MSc DipEd PhD *Lond*. Asst Chief Warden : W. J. Lazarus, BA. Chief Sports Organizer : G. M. Khan. Chief Proctor : Lt. F. N. Khan, MSc. Univ. Engineer (Bldgs. Div.) : S. A. Asghar, BSc. *Mane*. Asst Engineer (Bldgs. Div.) : V. Raghavan, BE. Asst Engineer, Univ. Estate : R. Chandra, BE. LLB. Horticulturist : G. K. Iyengar. Chief Supt, Univ. Coll. of Engin. : G. Jeelani, MSc LLB.

CONSTITUENT COLLEGES

[Pre-Univ, BA, etc, after the name of a coll means that courses are provided there for
Pre-Univ, BA, etc]

HYDERABAD, *Chaderghat Arts College* (tel. 4658) Pre-Univ (arts) Principal-in-Charge and Reader in Econ—M B Faridi, MA 13 other Teachers

HYDERABAD, *City Science College* (tel. 5182) Pre-Univ (sci.) Actg Principal—G Ahmed, BA DipEd. 17 other Teachers

HYDERABAD, *Evening College* Pre-Univ., BA, BCom, Dipls. in Pub Adm., French, German & Italian. Principal—G Ahmed, MA LLB *Alg.*, EdB *Glaz.* Lectrs COMM.—G L. Sanghi, MCom Nag., M Hussain, MA BCom, V. R. Kishtayya, MCom ECON.—S. Mokkapat, MA *Mad.*, S M Qadri, MA, P Ramiah, MA, A Khan, MA, V Raman, MA PhD ENGL.—M. M. Hussain, BA, E V Joshi, MA BT *Bom.*, K B Sekharam, MA Nag., DipEd, M I Ramu, MA *Ban.*, BED *And.*, R V Rao, MA LLB Nag *GOO*—Vidyanath, MA *Ban.*, S N Reddy, MA HINDI—T C Jain. HIST AND POL—A Mohsin, MA MEd (Reader), N G Rajurkar, MA LLB, P. Swami, MA, M M. Hussain, MA MATHS—S A Ghani, MA *Alg* (Reader), M A Sundaram, MA, K K Lalitha, MA PUB. ADMIN—Z Khan, MA *Luck.*, G V S Rao, MA Nag & *Orm*, P A James, MA LLB Nag., Mrs Y. Saraswathi Rao, MA Nag TELUGU—K Rao, MA URDU—S Ali, MA

HYDERABAD, *Law College* LLB, LL.M. Principal—G C. V. Subba Rao, BSc ML *Mad.*, Readers—W Khan, BSc LLM, V R Ranbavre, BA LLM, Lectrs—G. R. Apsangiker, LLB Nag, MA, M. M. Ali, BA LLB *Lond.*, K V Raman, BSc ML *And.*, G. V. G. K. Murty, BA BSc BL *And.*, T S A Narayan, BSc LLB, K. Natesan, BSc LLM, P L Rao, BCom LLM, B Rath, BSc LLM

HYDERABAD, *Nizam College* (tel. 34231) Pre-Univ. (arts, sci.), PPC, BA, BSc, BCom, MA (econ, pol) Principal—R Satyanarayan, PhD *Lond.*, BSc *Lond* & *Orm* ARABIC—Lectrs G. O. Khan, MA PhD, S. Jaffar, MA PhD BOT AND ZOOL—Readers. K Nasrullah, MSc, M Hakimuddin, MSc, Lectrs. J Nizam, MSc (on leave), M S Khan, MSc, S. S. Sumha, MSc PhD, A N Rao, MSc, P R Rao, MSc, Nusrathunissa, MSc, V J Rao, MSc, J V Rao, MSc, Mrs Devamma, MSc, G G K Ramanyam, MSc PhD, FRCS CHEM—Readers. S Raghunathan, MSc *Mad.*, R Kamtikar, MSc; Lectrs V. D. Thatte, MSc, M D Bhole, MSc (on leave), P Madhav Rao, MSc, S Manikar, MSc, N Chari, MSc, Seshavattaram, MSc, Sidhanthi, MSc COMM—Reader. B R Rao, MCom *And.*, Lectrs M Andrah, MCom, G. K. Murthy, MCom *And.*, S R Murthy, MCom *And* ECON—Reader Mrs M F Jussawala, MA *Mad.*, Lectr. T. Rama Rao, MA *Mad* ENGL—

Prof. Readers. T W Manikyam, MA Nag, N V Doraiswamy, MA, Lectrs K Venkatachallu, MA LLB *Luck.*, H Pasha, MA Nag, G R Krishnama, MA, S M Ahsan, MA *All.*, A. M. Goverdhan, MA *GOO*.—Lectr Inamullah, MA. HINDI—Reader. Lectr P Vidyasagar, MA HIST. AND POL.—Lectrs S V Raghavan, MA, M Anjan, MA *Mad* KANNADA—Reader F G Mathad, MA *Mad* Lectr V Pandurangacharya, MA MARATHI—Lectrs S R Kulkarni, MA PhD, Mrs Vimlabai Thatte, MA MATHS—Reader S S Datar, MA PhD *Bom.*, Lectrs: V V L Narasimha Rao, MA PhD, Bheemsan Rao, MA, N N Chaiy, MA, M V P Raman, MA PERSIAN—Reader PHILOS.—Lectr S A Khundmuri, MA PHYS—Prof R Satyanarayan, BA BSc PhD *Lond.*, Reader T S N Murthy, MSc *Ban.*, PhD, Lectrs P J Jacob, MSc *Agri.*, T V V Iyengar, MSc *Bom.*, M Suryanarayana, MSc *And.*, C R Rao, MSc PhD, S B Hyder, MSc, S K Qutubuddin, MSc, M Dwarkanath, MSc, P R Kaedyda, MSc SANSK—Lectr H Upadhyaya, MA TAMIL—Reader. TELUGU—Reader Lectr K G Krishna, MA URDU—

HYDERABAD, *Women's College*, Sultan Bazar (tel. 5169) Pre-Univ (arts, sci), Pre-Med, BA, BSc Principal—Shripati Shri Devi, MA PhD COL ARABIC AND PERSIAN—Lectrs Miss Razia Begum, MA, Mrs Syeda Mehunnisa, MA, Tahzeeb Zore, MA, S B Ansari, MA PhD BIOL—Readers. Mrs D Venkatachallam, MSc, Mrs Hamida Bilques Jameel, MSc *Lond.*, Lectrs Mrs. Akhtar Sultana, MSc, Mrs Pasha Begum, MSc, Mrs Zhooniunisa Begum, MSc, Mrs Saleha Moosavi, MSc, M Kamla Devi Kapoor, MSc, Mis Qamar Baig, MSc, Mrs Nirmal Nairang, MSc PhD, Habeeba Wahab, MSc, C P Godavari, MSc, A K Raman, MSc, Ahmadi Rasheed, MSc, Janaki Devi, MSc PhD CHEM—Readers Mrs Rasheeda Patel, MSc PhD *Lond.*, Mrs Nagamani Kulkarni, MSc PhD *Bom.*; Lectrs Mrs Qadri Begum, MSc, Miss V V Iyengar, MSc, Miss Roshan Shroff, MSc, V R Lalitha, MSc, B Lalitha, MSc, V Vissa, MSc, C A. Vijayalaxmi, MSc ECON—Reader Mrs Salamathunnisa Begum, MA, Lectrs Shahinshah Begum, MA *Mad.*, Miss G Somasundaram, MA *Mad* ENGL—Lectrs. S. Shrin D Shroff, MA LT *Cale.*, Mrs. Kameez Fatima Ghousuddin, MA, Elizabeth Pothan, BA, Susy Jacob, MA, Mrs K S V Chary, MA Nag, Mrs S N H Jafri, MA, Inna Rajratnam, MA, N. R. Iyer, MA, Mrs. Anita Kumar, MA *Pang* (?), Mis. Zeba Basheeruddin, MA *GOO*.—Lectr Zakia Sultana, MA HINDI—Lectrs. Mrs Roop Karan, MA *Luck.*, Mrs Triloki Devi Singh, MA, C V Rao, MA HIST.—Reader Mrs Zubeda

Begum Yazdadi, BA Oxon Lectrs Mrs A Vaidhehi Krishna Murthy, MA *Madr*, Sarojini Regani, MA *Nag*, PhD KANNADA—Lectrs R Indra, MA, V Sastri, MA *Mys* MARATHI—Reader Miss Tara Gangadhai Kelkar, MA PhD *Nag*, Lectr Miss Maya Sidesai, MA MATHS—Lectrs Miss Vanaja Iyengar, MA, Mrs. Subhadra Devi, MA, BT And PHILOS—Lectrs . Mrs Abbasi Begum, MA, Miss Tayeba Begum, MA PHYS—Reader Mrs H Sambhi, Lectrs Miss J Radhabayamma, MSc *And*, Mrs D V Seeta Bai, MSc *And*, Mrs Indu Dixit, BSc *Madr*, R. Thayamma, MSc POL SCI AND SOCIOLOGY—Lectrs . Miss T F Panjathan, MA, Miss Mahpara A Hussain, MA, Mrs G Ratan Shaw, Mrs Mumtaz Habeeb, MA, Sarojini Reddy, MA *Madr*, Mrs A Phillips, MA *Madr*, Fatima Shujaat, MA PhD SANSKRIT—Lectrs Mrs Mary G Burn Sataswati, MA, Nalini Paradkar, MA Poona TAMIL—M Manohara, MA TELUGU—Lectrs Mrs N Krishna Kumari, MA *And*, Miss K Yeshoda Reddy, MA, Mrs Samyukta Reddy, MA URDU—Reader Miss Rafia Sultana, MA PhD; Lectrs . Mrs. Zeenathunnisa Begum, MA, Sameena Shoukat, MA

SAIFABAD, *Saifabad Science College* Pre-Univ, PPC, BSc Principal—M Khaleelur Rahman, MSc 46 other Teachers

SECUNDERABAD, *Evening College*. Pre-Univ

Principal—M. Prasad Rao, MA *Madr*. 2 other Teachers.

SECUNDERABAD, *Secunderabad College of Arts & Science* Pre-Univ (arts, sci), Pre-Vet, BA, BSc, BCom Principal—Capt S M Ahmeduddin, BA MSc *Manc*, FGS 35 other Teachers.

WARANGAL, *Arts & Science College* Pre-Univ, BA, BSc Principal—S Sirajuddin, MA Lectrs NOT—B S Reddy, MSc, B N Chary, MSc, V R Bilolikar CHEM—S Y. S. Shahabuddin, MSc, S Yousufuddin, MSc, R Kurdukur, MSc PhD, M. H Baig, MSc, C Venkateshwarulu, MSc COMM—B V Sudershan, MA MCom BOON—T Reddy, MSc, K S Upadhyaya, MA. ENGL.—M. Anwar, MA *Alg.*, M R Sathyanarayan, MA, I Sequeria, MA, T G Vaidyanathan, MA, H R Prasad, MA HINDI—B B Tiwari, MA, B B Joysulu, MA HIST.—S Sirajuddin, MA, M M Ahmed, MA MATHS—M L N Rao, MA, M M Subrahmanyam, MA, K Rao, MSc PHILOS—S A Khan, MA, K L Reddy, MA PHYS.—A S. Murthy, MSc, S Raghavan, MSc, S G Sathyanarayana, MSc, M A H Sharif, MSc POL—A N Rao, MA SANSKRIT—P Siramachandrulu, MA BAN SOC STUDIES—R M Roy, MA TELUGU—Krishna Murthy, MA, G V Subrahmanyam, MA, V R Murthy, MA, K V R Sastri, BA *And*, PhD. URDU—A S Khan, MA, A S F M Quadri, MA ZOOL.—S Zabeeruddin, MSc, S Khan, MSc, T Vasudev, MSc

AFFILIATED COLLEGES

ADILABAD, *Govt Science College*, Andhra Pradesh Pre-Univ, BSc Principal—M S Sastri, MSc Lectrs NOT—V V R K Sarma, MSc, ENGL.—M. Nana Rao, MA BED, HINDI—B Agarwal, MA, MATHS—D. V. Rajarao, MA, PHYS—G S Chary, MSc, SOC STUDIES—K R James, MA; TELUGU—J R Rammoohanrao, MA, ZOOL.—K Bhaktawatsalrao, MSc

HYDERABAD, *Anwarul Uloom College* Pre-Univ, BA, BCom Principal—S A Akbar, MA *Camb* 20 other Teachers

HYDERABAD, *Badraka College of Commerce*, Gadwal Palace, Nampalli Station Road. Pre-Univ, BA, BCom Principal—K. Anantharam, MA *Madr* Lectrs ECON.—K. G. Srinivasan, MA *Madr*, N Krishnasastri, MA *And*, Mrs. Laxmy Ramamurthy, MA *Svenkat & Osm COMM*—G Laxmanaswamy, MCom *Ban.*, R Rangachary, MCom, B Radhakrishna Rao, MCom, G Ramavatharam, MCom, S V R K Sharma, MCom LLB, P S Vijaykumar, MCom, G Venkateswarulu. ENGL.—B F Showrayya, Mrs Abida Bashier, MA, K N S Murthy, MA, Mrs I Payanadham, MA CIVICS—GENERAL SCI—Nagindra Prasad, MSc, C K Menon, MSc MATHS.—T J Pannathpur, MSc *Mys*

HYDERABAD, *Gandhi Medical College*, Bashirbagh. MB BS Principal—M. Y. Ansary, MB BS PhD *Edm*. Profs. . Miss Y. Jaya, MB BS PhD, Shankar Rao, PhD *Lond.*, MB BS, G C S Naidu, MB BS BSSc, N R V Swamy, MB BS, MRCP, G. Subba Rao, FRCS Reader—T Ali, MB BS. Lectrs. A. M. Moheji, MB BS, D. Sunecta, MB BS, G. Yadagiri, MB BS, S A. Husaini, MB BS, Bhaskar Rao, MB BS, D. Ganu, MB BS, K Khursheed Begum, MB BS

HYDERABAD, *Govt College of Physical Education*, Andhra Pradesh Dipl in Phys Educn Principal—Munir Asad Ali, BA DPE 4 other Teachers

HYDERABAD, *Govt Training College*, Andhra Pradesh BED. Principal—Mrs. T. M. Yazdani, MA DipEd 15 other Teachers

HYDERABAD, *Mumtaz College*. Pre-Univ., BSc, Principal and MATHS—M K Mohiuddin, MA *Madr*, BT *Alg.* Lectrs. NOT—Falahuddin, MSc; CHEM.—M. A. Rahim Khan, MSc, ENGL.—Miss M Jaya Bai, MA *Madr*, GEOL.—M. Mohiuddin, MSc; PHYS.—N Rahman, MSc, ZOOL.—A A. Aziz, MSc.

HYDERABAD, *Nanakram Bhagwandas College*, Charkaman. Pre-Univ, BSc. Principal—C. V. Ramakrishna Rao 21 other Teachers.

HYDERABAD, *New Science College*, Narayan-guda Pre-Univ., BSc Principal and CIEM—C Sudershan, MSc. Lectrs : CIEM—Y S N Murthi, MSc And, P R Murti, MSc, A V Subbarao, MSc *Ban*, B Sethuram, MSc, V Ranga Rao, MSc, PHYS—H Lakshminpathi, MSc, S Parthasaradhy, MSc, B S R K Sharma, MSc, K G K Sastry, S Kanaka, MSc, BOT AND ZOOL—M Raghuram Rao, MSc, Mrs T. Chacko, MSc, Miss K V Lakshikutti, MSc, Miss K Alemele, MSc, Kalaspathi, MSc, Narasim-hachari, MSc, ENGL—Miss V Syamlamba, MA, V V Chary, MA, K S Sastry, BA And, soc STUDIES—K Subramanyam, MA LLB, N D Nandekar, MA Nag, MATHS—M Shafullah, MA, P B B Rao, MSc, KANNADA—K Sethu Rao, MA LT *Madr*, URDU—M A Ahmad, MA, HINDI—Miss Santosh Vaitma, MA, TELUGU—A Viswanatham, MA, GEOL—Paomary Phillips, MSc, J V Praneesh Rao, MSc

HYDERABAD, *Osmama Medical College*, Afzal Gunj (tel. 5196). MB BS, MD, MS, MSc; dipls Principal—I Chalapathy Naidu, MB BS And, MS *Madr*. MED.—Prof. B K. Nauk, MB BS *Bom*, MRCP, S Ramchandra Rao, MB BS, MRCP, A H. Siddiqui, MB BS, MRCPed, S V Rao, MD BS *Madr*, Asst Prof. U B Rao, MD BS And, R N Sharma, MD BS And, E Ramagopalacharyulu, MD BS And, Lectr S N Mathur, MB BS *Bom*, MRCPed SURG.—Prof. I C Naidu, MB BS And, MS *Madr*, M Bahadur Khan, MB BS, Hon Prof. N B Reddy, MB BS And, FRCSed, Asst Prof. R G V Ranga Rao, MB BS And, Lectrs G P Ramayya, MB BS, FRCS, S S Hussain, MB MS And PHARMACOL.—Prof. P. Sisodia, MD BS *Bom*; Lectr S Narayan, BSc MB BS *Madr*. ANAT.—Prof. G Hanu-mantha Rao, MB BS, Lectrs K Rama Rao, MB BS, D Suneeta, MB BS PhD *Madr* OBSTET AND GYNÆCOL.—Prof. Mrs. P M Naidu, MB MD DGO *Madr*, FRCSed, B S Surthi, MB BS, FRCS; Additional Prof. Miss Kanaka-durgamba, MB BS And, MD *Madr*, FRCS, C Rajeswari, MD BS And, Asst Prof. Miss T. S Krishna, MD BS, Miss Zakia Mehdi, MD BS, Lectrs : Mrs J Kiroloskar, MB BS *Bom*, FRCS, Mrs N. Lokabai, MD BS And, Mrs Umesh Reddy, MD BS, T. Seetha, MD BS PATHOL.—Prof. V Gopal Rao, PhD *Lond*, MB BS, Lectrs N. M. Sathe, MB BS DCP, P. D. Naidu, MB BS PHYSIOL.—Prof. C Sitaramaya, PhD *Lond*, MB BS And; Reader M M A Zaidi, MB BS, Taher Ali, MB BS, Lectrs M H. A. Baig, MB BS, P. Sindhari, MB BS MSc And BIOCHEM.—Prof. K Ran-ganatha Rao, MB BS MSc PhD OPHTHALMOL.—Prof. P Ramchander, MB BS, MRCP, Lectrs M R. Reddy, MB BS And, Venkatrama Reddy, MB BS And, N Swarup, MB BS *Bom*, FRCS FORENSIC MED.—Prof. I. Bhoothanrao, MB BS And, MD *Madr* SOC AND PREV MED.—Prof. C. L. Ahluwalia, MB BS, G C S Naidu, MB BS And, BSSc *Calc*, Asst Prof. P. Hrishu-

kesh, MB BS And, DPH *Calc* DENTAL SURG.—Prof. M G Rao, Additional Prof. Tajmal Hussain, MB BS *Lond* HIST OF MED.—Prof. D V. Subba Rao, MB BS MSc ORTHOP.—Prof. M Ranga Reddy, MB BS, FRCS, Asst Prof. Dharam Rai, MB BS, FRCS EAR, NOSE, THROAT—Prof. A B N Rao, MB BS, FRCS, Asst Prof. V K. Muthy, MB BS And ANÆSTHESIA—Prof. M V Rao, MB BS DA, MRCP RADIOLOG.—Prof. H Syed Ali, BA MB BS. PEDIATRICS—Prof. H Chandra, MB DCH, MRCP BACTERIOL.—Prof. P V Ramna Rao, BSc MB BS And, DPH *Calc*, MD *Madr* PSYCHIATRY—R. Natrajan, MB BS *Madr*, MRCPed THORACIC SURG.—G R Bajji, MB BS *Bom*, FRCSed INFECTIOUS DIS.—M M Baig, MB BS, MRCPed

HYDERABAD, *R B V R R Women's College*, Narayanguda Pre-Univ., BA, BSc Principal—G. P. Indira, MSc 36 other Teachers

HYDERABAD, *Vivek Vaidhyan College of Arts & Commerce*, Gowliguda Pre-Univ., BA, BCom Principal—S D Satwalekar, PhD Lectrs COMM.—C. G. Karandikar, MA MCom Nag, K K. V. Raghava, MCom, N V. R. Appa Rao, MCom, ENGL.—P S Rao, MA LLB *Bom*, R Ramchandra Rao, MA Nag, P G K. Rao, MA BED LLB *Saug*, M M Rao, BA And, HIST.—Mrs Lalita Tirtha, MA *Madr*, K H Shivaji Rao, POL.—S B Nakade, MA, E S Rao, MA, Miss K Nagarathna, MA, ECON.—N P Joglekhar, MA Poona, N Sampat Kumar, TELUGU—V B Sastry, MA, MARATHI—D P Joshi, PUB ADMIN.—K V. Srinivasan, MA DPA, PHYS.—K. Subramanyam, MSc, P. Lavminarayana, MSc, CHEM.—S M. Somani, MSc Poona, BOT.—S S Kulkarni, MSc, Mrs U. Damayanti, MSc, ZOOL.—R R. Patwar, MSc, MATHS.—N S K. Mur

KARIMNAGAR, *Arts & Science College*, Andhra Pradesh. Pre-Univ., BA, BSc, BCom. Principal and PHLOS.—V. Satyanarayana, MA. Lectrs. CHEM.—G V G. K. Murthy, MSc, COMM AND ECON.—V. Kondalrao, MCom, D R K. Patnaik, ENGL.—D. Ramakrishna Rao, MA LLB Nag, PHYS.—P S. Ramachandra Rao, MSc And; TELUGU AND SANSK.—D. S. Murthy, MA, URDU AND HINDI—M A. Gaffar, MA, ZOOL AND BOT.—P. Ramachender Rao, MSc, M. Dharmiah, MSc, R. G. Rao, MSc

KHAMMAMETH, *Arts & Science College*, Andhra Pradesh. Pre-Univ., BA, BSc, BCom. Principal and COMM.—K. V. Subbaraju, BCom. Lectrs. BIOL.—D. V. Subba Rao, MSc, P. R. Rao, MSc, ENGL.—K. Y. L. Narasimha Rao, MA And, MATHS.—K. K. Rama Rao, MA, CHEM.—G. S. Sastry, MSc, COMM. AND ECON.—V. Jagannadha Rao, MCom, G. J. Mohan Rao, BA *Madr*, HIST. AND CIVICS—K. R. Mohan Rao, BSc And, MA Dipl in Chinese *Ban*, TELUGU—Y. Audi-narayana, MA *Ban*, POL.—Y. V. Reddy, MA *Ban* & *Madr*, LLB *Ban*, PHYS.—M S R. Acharya, MSc *Saug*

MAHABUNAGAR, *Arts & Science College*, Gadwal
Pre-Univ Principal—I Suryanarayana, MSc
Saug 9 other Teachers

NALGONDA, *Govt College of Arts & Science*,
Andhra Pradesh Pre-Univ, BA, BSc, BCom
Principal—P C Asthana, MSc Luck Lectrs
CHEM—G Satyanarayana, BSc And, MSc Nag,
BIOL—B. M. Reddy, MSc, B Narasimha Rao,
MSc, PHYS—D. Natesan, MSc Anam, ENGL
—N Sambasiva Rao, MA Ban, BED And,
ECON. AND SOC STUDIES—T Purnachandra Rao,
BA And, MA, URDU—M M A Khan, MA,
MATHS—N. C. S Acharyulu, MA, POL—Miss
Kasturi Bai, MA *Madr*, TELUGU—P Venkat
Ramaiah, MA *Madr*, GEOL—D Vaman Rao,
MSc, PUB ADMIN—A G S Vidyasagar, MA
Nag, COMM—T R Gopal Krishna, MCom
LLB BED Saug

NIZAMABAD, *Govt Arts College*, Andhra
Pradesh Pre-Univ, BA, BSc, BCom Principal
and BIOL—S Lakshman Rao, MSc Lectrs.
BIOL—K V S. Ramakoti, MSc And, K R. K.
Murthy, MSc, ECON. AND COMM—K G Reddy,
MCom, A J Joseph, MA, MATHS—R Pulla
Rao, MSc, TELUGU—P V Somayajulu, BA
And, PHYS—K Seetharamasarma, MSc Ban,
CHEM—K V Narasimacharyulu, MSc Ban,
HIST—Miss A. Hymavati, MA, ENGL—P V
Sastri, MA, POL SCI—K R Santanam, MA

SECUNDERABAD, *St Francis' College for Women*
Pre-Univ, BA Principal—S. M. Bridget, MA
Calc 6 other Teachers

SIDDIPET, *Arts & Science College*, Andhra
Pradesh Pre-Univ., BA, BSc Principal and
ECON—N. Krishnamurthy, MA And Lectrs
ECON—K Purushotham, BA *Madr*, C Satya-
narayana, MA, ENGL—D S Prakash Rao, MA
Ban, HIST—K Subramanyam, MSc, S K
Bakshi, MA, MATHS—V Ramchandai Rao, MA
MSc *Madr*, T L Narasimha Rao, MA BL Nag;
PHYS AND CHEM—S Viswanatham, MSc, N P
Devadass, MSc *Agra*, TELUGU—P Gopala-
krishnamurthy, BA And, ZOOL AND BOT—D
Viswanatham, P Suryanarayana, MSc And, A
Razzak, MSc, K Lokender Rao, MSc, POL—
G Venkataiah, MA, M Satyanarayana, MA, URDU
—M Rahmatulla, MA

WARANGAL, *Fatima College for Women*, Kazipet
Pre-Univ, BA Principal—M J Houghton,
MA LT Calc 8 other Teachers

WARANGAL, *Govt Teachers' Training College*,
Andhra Pradesh BED Principal—Mrs. Sarada
Bai, MSc DipEd Lectrs—J Venkateshwara
Rao, MA BED, M. Sambasiva Mohan, MA MEd,
Q M Habeebuddin, BA MEd, P Venkat Rao,
MA BL BED, S A Bertar, MA BED, M Qasim
Khan, MA And, BED, A. Q Qureshi, MA BED,
S Permaji, MA BED, Chander Deo Sharma

WARANGAL, *Regional Engineering College* BE
Principal—P Govindakrishna, DIC, BE *Madr*.
38 other Teachers

WARANGAL, *Regional Medical College* Pre-
med Principal—T Lekshminarayana, MB BS
BSSc DPH Lond 21 other Teachers

GENERAL INFORMATION

The univ. was establd. in 1918, and its charter
was revised in 1947 and 1950. The univ. act was
implemented in Feb 1959. It is a teaching and
affiliating univ

CONSTITUTION The univ is completely auto-
nomous though it is wholly financed by the govt
The univ syndicate, consisting of 15 members, is
the governing body The vice-chancellor is the
chief admin officer The other bodies of the
univ are the finance cttee, academic council,
senate, library cttee, cttee of exams., facs and
bds of studies

INCOME (1960-61) Indian govt. Rs
8,998,313

FACULTIES AND DEANS *Agric*, Dr H A
Razvi, *arts*, Prof M A Qadir; *comm*, Dr V V
Ramanadhan, *educn*, Principal Syeda Zohra
Begum, *engin*, Principal A. Ali, *law*, Principal
G C V Subba Rao, *med*, Principal I. Chala-
pathi Naidu, *sci*, Dr R Satyanarayan, *technol*,
Prof B S Kulkarni (chem technol), *vet. sci*,
Dr M. Ahmed Hussain

LIBRARY. 130,514 vols (English, 39,988,

Urdu, Persian, Asiatic, 17,958, oriental, 20,905,
gift, 21,237, Salarjung, 30,426) There are
7590 MSS incl. 1239 palm leaf MSS

ADMISSION. The qualif necessary for entrance
to the BA course is the higher sec cert. (XII
standard) or pre-univ. exam. cert or equivalent
cert.

FIRST DEGREES 2 yrs (after dipl. in oriental
learning)—BOL, 3 yrs —BA, BSc, BCom,
BSc(Agr), 4 yrs.—BE, BTech, BVSc&AH; 5
yrs —MB BS.

HIGHER DEGREES 1 yr —BED, MEd (after
BED); 2 yrs —LLB, MA, MSc, MSc(Agr),
MTech, MCom, LLM (after LLB), MD, MS,
PhD

DIPLOMAS 1 yr. (postgrad)—library sci,
journalism, phys educn, 2 yrs —French,
German, Italian, Russian, oriental learning, pub
admin., 1 yr (postgrad)—DO, DGO, DCH,
DCP, DLO, DFM, DA.

STUDY LEAVE has been suspended. Teachers
are deputed and their absence is treated as leave
to their title.

FEES Registration, Rs 2, admission, up to grad. course, Rs 5, postgrad and professional courses, Rs 10, pre-univ, Rs 28 per term, BA, BSc and BCom, Rs. 35 per term; MA, MSc, BSc(Agr), BVSc, BEd, MEd, LLB, LLM, Rs 45 per term, MB BS, Rs 55 per term; BE, Rs 70 per term, dipl. in journalism, Rs 38 per term, dipl in French or German, Rs 12, dipl in library sci, Rs 20 per term, dipl in pub admin., Rs. 38 per term

ACADEMIC YEAR 3 terms June-Sept, Oct-Dec, Jan-March For courses of engin. and technol, 2 terms June-Oct, Dec-March

LANGUAGE OF INSTRUCTION In all degree and pre-univ colls Engl is main medium of instrcn., but in a few colls parallel classes are conducted in Hindustani. In all professional courses Engl is only medium of instrcn

RESIDENCE Univ. hostels provide accomm for about 1000 students Cost of living is about Rs 35 p.m

STAFF RESIDENCES. Vice-chancellor's lodge; quarters for resident med officer, warden of hostels, teaching and admin staff.

NATIONAL CADET CORPS 3rd Andhra bn NCC (12 platoons with 782 cadets and 15 officers), 6th Andhra sig section NCC (2 platoons (men) with 120 cadets and 2 officers and 7 sub-troops (women) with 315 cadets and 7 officers), Warangal Ind Co, NCC (3 platoons with 189 cadets and 2 officers)

STUDENT HEALTH SERVICE Resident med. officer with well-equipped clinic on the campus Visiting physician once a week. Resident students are examined before admission to hostels

PUBLICATIONS *Annual Administration Report* (free), *Syllabuses* (Rs 1 each), *University Act*, *Admission Rules*, *Concise English-Hindi Dictionary*, text-books for pre-univ course, *University Handbook* (Rs 1)

UNIVERSITY PRESS Manager—A. S. R. Anjaneyulu, BA.

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	17,346	—
Women	3,401	—
Total	20,747	—

Distribution by Faculties Agric, 274; arts, 6217, comm, 1673, educn, 413; engin, 909; law, 1488; med, 1314, sci., 8039, technol., 120; vet sci., 300 Total 20,747

Included in the figures above are —

Pre-University students, 4882.

Postgraduate students, 1160

New admissions, 11,225

Students from other countries, 20 (Country from which largest number came. Nepal, 8)

DEGREES AWARDED (1960-61) Agric BSc (Agric), 73, MSc(Agric), 24 Arts. BA, 1168, MA, 215, PhD, 7, BOL, 33 Comm BCom, 339, MCom, 11. Educn BEd, 294, MEd, 14 Engin: BE, 189. Law LLB, 17, LLM, 17 Med MB BS, 152, MD, 6, MS, 2 Sci BSc, 693; MSc, 74, PhD, 6 Technol BTech, 22, MTech, 2 Vet sci BVSc&AH, 51

PANJAB UNIVERSITY*

CHANDIGARH

Founded 1947

Postal Address . Chandigarh, Panjab, India
Cables and Telegrams University, Chandigarh, India
Telephone (Registrar) . 324

CHANCELLOR—H E. THE GOVERNOR OF THE PANJAB (*ex officio*)

VICE-CHANCELLOR—A. C. JOSHI, DSc, FNI

REGISTRAR—K S NARANG, MA

LIBRARIAN—J S SHARMA, PhD *Mich.*, MA

TEACHING STAFF

[†=Part-Time]

Ancient History and Culture				Singh, G., MSc PhD	Lectr
Prakash, B., MA DLitt	Reader, Hd of Dept			Bhatnagar, J N.	Lectr
Chopra, S N, MA	Temp Lectr			Raju, K S N, MSc(Tech)	Lectr
				Singh, Kulwant, MSc	Lectr
				Sharma, G M, MSc PhD	Temp Lectr.
Anthropology					
Chopra, S R K, MSc PhD					
	Reader, Hd of Dept			Chemistry	
Atal, Y., MA	Lectr			Paul, R C, MSc PhD	Prof, Hd. of Dept
Sharma, J C, MSc	Lectr			Puri, B. R., MSc PhD	Reader
				Narang, K S, MSc PhD	Reader
				Rastogi, R P., MSc PhD	Reader
Astronomy				Singh, B, DSc	Reader
Syal, R. D., MA	Lectr			Lal, K., MSc PhD	Lectr.
				Lakhan-Pal, M. L., MSc PhD	Lectr.
				Vig, O P., MSc PhD	Lectr
Botany				Kessar, S V., MSc PhD	Lectr
Mehra, P N, DSc, FNI	Prof, Hd of Dept			Singh, S, MSc PhD	Lectr.
Chopra, R. S, MSc	Reader			Singh, D D, MSc PhD	Lectr
Thund, K. S, MSc PhD	Reader			Sahota, S. S	Temp Lectr
Khoshoo, T N, MSc PhD	Lectr				
Loyal, D S	Lectr			Commerce	
Pathania, R. S, MSc	Lectr			Datta, K, MA <i>Camb</i> , BCom <i>Lond</i>	
Verma, S C, MSc	Lectr				Principal, Univ. Commerce Coll.
Grover, R K, MSc PhD	Temp Lectr			Kapoor, T N, LLB MCom PhD	Reader
				Dogra, R M, MA	Lectr
Chemical Engineering and Technology				Mehrotra, B. N, MA LLB	Lectr.
Ghosh, B, MS DSc	Prof, Hd of Dept			Bansal, B. L, MCom LLB	Lectr.
Gupta, I S., MSc PhD	Reader			Mongia, J N, MA PhD	Lectr
Sharma, N. K D, BEMech MSc(Engg)	Reader			Sandhawalia, S S, BA LLB	†Lectr
Sharma, L. R., MSc PhD	Reader				
Singh, J., MSc PhD	Lectr.			Economics	
Bhalla, M D, MSc(Tech)	Lectr			Rangnekar, S. B, MA PhD <i>Bom</i>	Hd. of Dept
Lele, P. S., MSc PhD	Lectr.			Mannohan, S, MA	(on leave) Reader
Bhatia, S L, DSc	Lectr.			Mathur, G, MA	(on leave) Reader
Bagga, R. L., BSc	Lectr			Handa, D R, MA	(Stats) Lectr.
Chandra, V.	Lectr.				

* Member of the Association of Universities of the British Commonwealth

Sahota, G S, MA
Luthra, R K, MA

Lectr
Temp Lectr

Law

Sircar, U C, BA ML LLD

Principal, Univ. Law Coll.

English

Kumar, R, MA PhD Prof, Hd of Dept
Kumar, I, MA *Camb & Pany* Reader
Vernon, P F, MA *Lond* Reader
Kaul, R K, MA PhD Lectr
Chander, J, MA (on leave) Lectr
Rama, M L, MA Lectr
Seth, R N, MA Temp. Lectr

Mehta, H. R, LLM Reader
Mongia, B S, MA LLB Reader
Banerji, E. H, BA LLB Reader
Diwan, P, LLM Reader
Chouhan, B R, MA LLM (on leave) Lectr
Kishan, R, BSc LLM Lectr
Tondon, A R, BA LLB †Lectr
Singh, N, BA LLB †Lectr
Sud, S L, BA LLB †Lectr
Aggarwal, C D, BA LLB †Lectr
Chopra, S. R, LLB †Lectr
Dhillan, R S, BA LLB †Lectr
Singh, U, BA LLB †Lectr
Mittal, H. L, BA LLB †Lectr
Jain, S. K, BA LLB †Lectr
Mehra, B S, BA LLB †Lectr
Lal, C, BA LLB †Lectr
Singh, Sharanjit, BSc LLM Lectr
Hoshiaipuri, A. C, BA LLB Lectr
Singh, Kuldeep, BA LLB Lectr
Singh, Mohinder, BA LLB Lectr
Gaur, U D, BA LLB Lectr
Singh, Debi, BA LLB Lectr

French

Boolechand, Mis A Lectr

Geography

Sarkar, P K, MSc PhD Reader, Hd of Dept
Gosal, G S, MS PhD *Wis.*, MA Reader
Sen, J C, MA Lectr
Lal, A, PhD *Indiana*, MA Lectr

Geology

Sahni, M R, MA *Camb*, PhD DSc *Lond*.
Prof, Hd of Dept.
Bhatia, S. B., MSc PhD Reader
Sikka, D. B., MSc PhD Reader
Jain, S P, MSc Lectr.
Saxena, M N, MSc PhD Lectr.

German

Roemer, Elizabeth, DPhil Lectr.

Hindi

Dwivedi, H P, MA PhD DLitt
Prof, Hd of Dept.
Madan, I. N., MA PhD Reader
Bhanot, S D., MA PhD Lectr.
Kuntal Megh, R, MA PhD Lectr.
Gupta, G C, MA PhD Lectr.

History

Gupta, H. R., MA PhD DLitt
Prof, Hd. of Dept
(on leave) Reader
Sethi, R R, MA PhD Reader
Mehra, P L, MA PhD Reader
Sangar, S P, MA PhD Reader
Goswami, B. N, MA Lectr
Verma, P D, MA Lectr

Journalism

Singh, P. P., MA *Missouri & Lond*, BA
LLB *Luck*, JD *Lond* Reader, Hd of Dept
Jain, G P, MA *Allid. & Missouri*, LLB *Allid*
Akhtar, J. D. Lectr
Vidyalankar, A. †Lectr
Singh, Kuldeep †Lectr.
Furtado, R de L. †Lectr.
Rana, J. B Temp Lectr

Mathematics

Gupta, H R, MA PhD, FNI
Prof, Hd of Dept.
Bambah, R P, PhD *Camb.*, MA *Pany* Reader
Srinivasan, T P, MA Reader
Joshi, D D, MA DSc Reader
Madan, M L, MA PhD Lectr
Singh, Rajinder, MA PhD Lectr
Luther, I S, MA PhD Lectr
Keraswani, R. N, MA PhD Lectr

Punjabi

Shan, H S, MA Lectr
Singh, R, MA Lectr
Singh, A, MA Lectr
Tiwar, V N, MA Lectr

Pharmaceutical Chemistry and Pharmacognosy

Singh, N, MScTech PhD *Sheff* Reader
Jain, M K., MSc PhD Lectr
Attal, C K, MPharm PhD Lectr
Mittal, T C Lectr
Sekhon, N S, MSc(Tech) Lectr
Sharma, M L Temp. Lectr

Pharmaceutics

Gand, K N., MSc PhD Reader, Hd of Dept
Mittal, H C, MPharm PhD Lectr.
Baveja, S K, MPharm Lectr

Philosophy

Nath, P, MA PhD Reader, Hd of Dept
Raman, N S S, MA PhD Lectr

Goel, D., MA PhD	Lectr.	Deo, Mrs Pratibha, MA MEd EdD	Lectr
Puri, D. D., MA	† Lectr.	Singh, D. D., MA PhD Lond	Lectr
		Nijhawan, Mrs H K, MA PhD	Lectr.

Physics

Anand, B M, MSc PhD	Prof., Hd of Dept
Sudershan, M K, MSc PhD	Reader
Bhanot, V, MSc PhD	Reader
Kothari, L S., MSc PhD	Reader
Sood, B S, MSc PhD	Reader
Sood, P C, MSc PhD	Reader
Kalia, P N, MSc PhD	Lectr
Trehan, S. K, MSc PhD	Lectr
Trehan, P. N., MSc	(on leave) Lectr
Nagpal, K K, MSc PhD	Lectr
Mahanty, J, MSc PhD	Lectr
Mahanty, Mrs S, MSc	Temp. Lectr
Pal, R, MSc	Temp. Lectr.
Sharma, B L, MSc	Temp. Lectr

Physiology

Bambah, Mrs S, MB BS, MRCP	Lectr
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Political Science

Sharma, I D, MA PhD DLitt	Reader, Hd of Dept
Sharma, B R, MA	Reader
Anand, J C, MA	Lectr
Goyal, O. P, MA	Lectr

Psychology

Jalota, S., MA DPhil	Prof., Hd of Dept
Dey, M K, MSc PhD	Reader

Public Administration

Khanna, B. S, MA PhD	Prof., Hd of Dept
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Sanskrit

Shukla, D N, MA PhD DLitt	Prof., Hd of Dept.
Nath, J, MA	Reader
Ram, G, MA PhD	Reader
Raj, H., MA MOL	Lectr
Vidyalankar, J, MA PhD	Lectr
Ojha, S D, MA	Lectr

Sociology

Majumdar, T K, MA PhD	Reader, Hd of Dept
Sharma, M L, MA	Lectr
Pumpley, P N, MA	Lectr

Zoology

Parshad, G., PhD Edn. & Panj, MSc	Prof., Hd of Dept.
Arora, G L, DIC, MSc PhD Lond.	Reader
Trehan, K. N, MSc PhD	Lectr
Satija, R. C., MSc PhD	Lectr
Vashist, H S, MSc PhD	Lectr.
Bawa, S R, MSc PhD	(on leave) Lectr
Parshad, R, MSc PhD	Temp Lectr.

ADMINISTRATIVE AND OTHER STAFF

Chief Accts Officer · J Narain	Dep Registrar (Exams)	B Raj	Dep Registrar (Admn.)	Asst Registrar (Conduct)	J Singh, MA	Asst Registrar (Accts)	K R Sachdeva, MA	Asst Registrar (Secrecy)	Bru Lal Chhabia	Dir of Phys Trg · B L Gupta, BA PhD DPE	Directress of Phys. Trg.	Miss Pushpa Anand, BA DPE
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AFFILIATED COLLEGES

[IA, BA, etc., after the name of a coll. means that courses are provided there for Intermediate Arts, BA, etc.]

ABOJAR, *D A V College*. IA, ISC, BA. Principal—N D Grover, MSc 20 Teachers

AMBALA CANTT, *Arya Girls' College* IA Principal—Mrs C R Hymans, MA LT MSc 9 Teachers

AMBALA CANTT., *G.M.N College*. IA, ISC, BA, BSc, MA Principal—R. N. Rihan, MA 35 Teachers

AMBALA CANTT, *S.D. College*. IA, ISC, BA, BSc, MA, Prabhakar, Prajna, Visharad, Shastri Principal—G Dass, MA 27 Teachers

AMBALA CITY, *D A V College*. IA, ISC, BA, BSc Principal—L. C Dhawan, MA. 30 Teachers.

AMBALA CITY, *Dev Samaj College for Girls*. IA, BA Principal—P. B. Kheina, MA 11 Teachers.

AMBALA CITY, *S.A. Jain College* IA, ISC, BA, BSc. Principal—G. C Jain, MSc 24 Teachers

AMRITSAR, *D A V College* IA, ISC, BA, BSc, MA. Principal—B S Bahl, MSc 54 Teachers

AMRITSAR, *Gout College for Women* IA, ISC, BA, Principal—Miss A. Nathan, MSc BT 29 Teachers

AMRITSAR, *Hindu College*. IA, ISC, BA, BSc, MA. Principal—B. L Kapur, MA. 40 Teachers.

AMRITSAR, *Khalsa College* IA, ISc, BA, BSc, BSc Hons, MA Principal—Harbant Singh, BSc PhD 70 Teachers

BANGA (JULLUNDUR), *Sikh National College*. IA, ISc, BA Principal—A S Malik, MSc 15 Teachers

BARNALA, *S D College* IA, ISc, BA Offg Principal—R. D. Bhalla, MSc 18 Teachers

BATALA, *Baring Union Christian College* IA, ISc, BA Principal—Ram Singh, MA PhD 30 Teachers

BHATINDA, *Rayindra College*. IA, ISc, BA Principal—Mis H M Dhillon, MSc 23 Teachers

BHJWANI, *Vaish College*. IA, ISc, BA Principal—M T Makhya, MA 20 Teachers

BILASPUR, *Govt. Degree College*. IA, ISc, BA Principal—R M Sharma, MA 16 Teachers

CHAMBA, *Govt. Degree College*. IA, ISc, BA Principal—Rajinder Singh, MSc. 18 Teachers

CHANDIGARH, *D A V. College*. IA, ISc, BA, BSc Principal—S Ram, MA 28 Teachers

CHANDIGARH, *Govt College* IA, ISc, BA, BSc Principal—K S. Thapar, BA BLitt Oxon, MA 43 Teachers

CHANDIGARH, *Govt College for Women* IA, ISc, BA Principal—E N. Shahni, MA DipEd Lond. 27 Teachers

DHARAMSALA, *Govt. College* IA, ISc, BA, BSc Principal—T Singh, PhD Harv, MSc Panj 26 Teachers

FARIDKOT, *Bryndra College* IA, ISc, BA Principal—A. S Shante, MSc. 29 Teachers

FATEHGARH SAHIB, *Mata Gurni College* IA, ISc, BA. Principal—H S Sodhi, MA PhD 16 Teachers

FAZILKA, *M R College*. IA, ISc, BA. Principal—S Lal, MA BT 13 Teachers

FEROZEPUR CITY, *Dev Samaj College for Women*. IA, BA, MA Principal—D Bir, MA BT. 14 Teachers

FEROZEPUR CITY, *R.S.D. College* IA, ISc, BA, BSc Principal—U Sen, MA 21 Teachers

GURDASPUR, *Govt. College* IA, ISc, BA, BSc. Principal—S D Bhatia, MSc 43 Teachers

GURGAON, *Dronacharya S D College* IA, ISc, BA Offg Principal—R K Sharma, MA LLB 35 Teachers

GURGAON, *Govt College for Women* IA, ISc, BA Principal—Mrs P K Singh, MA BT. 17 Teachers

GURUSAR SADHAR (LUDHIANA), *G H G Khalsa College*. IA, ISc, BA Principal—Kundan Singh, MA BT 13 Teachers

GURU TEG BAHADUR GARH, *Guru Nanak College* IA Principal—H S Dhillon 6 Teachers

HARIANA (HOSHIARPUR), *Hindu National College*

IA, ISc, BA Principal—L C Khurana, MA PhD Lond 13 Teachers

HISSAR, *Dayanand College* IA, ISc, BA, BSc, MA. Principal—D N Sharma, MA. 33 Teachers

HISSAR, *Fateh Chand College for Women*. IA, BA. Principal—Miss Janaki Chopra, MA 14 Teachers

HISSAR, *Govt College* IA, ISc, BA Principal—S S Gupta, MA PhD 22 Teachers

HOSHIARPUR, *D A V. College* IA, ISc, BA, BSc, MA. Principal—R Ram, MA. 51 Teachers

HOSHIARPUR, *Govt College* IA, ISc, BA, BSc, MA Principal—Inder Singh, MSc MS MA 49 Teachers

HOSHIARPUR, *S D College*. IA, ISc, BA, MA Principal—A Prasad, MSc. 13 Teachers

HOSHIARPUR, *Visheshwasi Nand Vedic Research Institute* Principal—V Bandhu Shastri, MA MOL 3 Teachers

JAGRAON, *Laxpat Rai Memorial College*. IA, ISc, BA. Principal—Capt A. N. Kapur 16 Teachers

JHAJJAR, *Nehru College*. IA, ISc, BA Principal—C R Rathee, MA 17 Teachers

JIND, *Public College* IA, ISc, BA, BSc Principal—S N Rao, MA PhD 10 Teachers

JULLUNDUR, *D A V. College* IA, ISc, BA, BSc, MA Principal—S Bhan, MA Lond & Panj. 99 Teachers

JULLUNDUR, *Doaba College* IA, ISc, BA, BSc, MA Principal—G D Khanna, MA BT 46 Teachers

JULLUNDUR, *Hans Raj Mahila Mahavidyalaya* IA, BA, MA Principal—V Anand, MA 20 Teachers

JULLUNDUR, *Kanya Mahavidyalaya* IA, ISc, BA, MA Principal—Miss L. Vati 26 Teachers

JULLUNDUR, *Lyallpur Khalsa College*. IA, ISc, BA, BSc, MA Principal—R S Sachdev, MA 43 Teachers

JULLUNDUR, *Lyallpur Khalsa College for Women*. IA, ISc, BA Principal—Miss S K Avtar Singh, MA BT 16 Teachers

KATTHAL, *R K S D College* IA, ISc, BA Principal—R P Kumria, MA. 16 Teachers

KALAMAJRA KHANNA (LUDHIANA), *A S College*. IA, ISc, BA. Principal—S Ram, MA BT 18 Teachers

KAPURTHALA, *Randhir College*. IA, ISc, BA, Piabhakar, Pragna, Visharad, Shastri. Principal—D. N Kak, MA 26 Teachers

KARNAL, *D A V College for Women*. IA, BA Principal—Mrs B Patil 10 Teachers

KARNAL, *Dyal Singh College*. IA, ISc, BA, BSc Principal—R K Sharma, MSc 35 Teachers

KHANNA, *Shri Saraswati Sanskrit College*.
Prajna, Visharad, Shastri, Rattan, Prabhakar
Principal—V N Shastri 7 Teachers.

LUDHIANA, *Arya College* IA, ISc, BA, BSc,
Prabhakar, Gyani Principal—R N Kapur,
MSc 30 Teachers.

LUDHIANA, *G.G.N. Khalsa College* IA, ISc,
BA Principal—Sujan Singh, MA, LLB 19
Teachers

LUDHIANA, *Govt College* IA, ISc, BA, BSc,
MA Principal—K N Dutt, MA Camb 79
Teachers

LUDHIANA, *Govt College for Women* IA, ISc,
BA, BSc. Principal— 45 Teachers

LUDHIANA, *Khalsa College for Women* IA,
ISc, BA Principal—Mis J K Grewal, MA
LLB BT 21 Teachers

MAHILPUR (HOSHIARPUR), *S.G.S.S. Khalsa
College* IA, ISc, BA Principal—Haibhayan
Singh, BA BT 19 Teachers

MALERKOTLA, *Govt College* IA, ISc, BA
Principal—Kesar Singh, MSc Ph.D. 20 Teachers

MALERKOTLA, *S.A. Jain College* IA, ISc, BA
Principal—B. N Chopra, MA 10 Teachers.

MANDI, *Govt College* IA, ISc, BA, BSc
Principal—G L Sharma 23 Teachers

MANDIDABWALI, *Guru Nanak College* IA, BA
Principal—Prem Singh, MA MEd 9 Teachers

MOGA, *D.M. College* IA, ISc, BA, BSc
Principal—P K Syngal 34 Teachers

MUKTSAR (FEROZPORE), *Govt College* IA,
ISc, BA Principal—Harbans Singh, MA 13
Teachers

NABHA, *Govt Ripudaman College* IA, ISc,
BA Principal—Mohan Singh, MSc 26
Teachers

NABHA, *Govt Sanskrit Vidyalya* Prajna,
Shastri, Rattan, Bhushan, Prabhakar
Principal—

NAHAN, *Shri Guru Ram Rai Degree College* IA,
ISc, BA Principal—S N Sharma, MA BT 10
Teachers

NANGAL AMBIA (JULLUNDUR), *Khalsa College*.
IA Principal—K S Khurana, MA 4
Teachers

NARNAUL, *Govt. College* IA, ISc, BA Off.
Principal—B L Sharma, MA BT 20 Teachers

NAWANSHAH DOABA, *B.L.M. Girls' College*
IA, BA Principal—Mrs Gita Anuja, MA MOL
7 Teachers

NAWANSHAH DOABA (JULLUNDUR), *Radha
Krishan Arya College* IA, ISc, BA, BSc. Prin-
cipal—N. Lal, MA 22 Teachers.

PALWAL, *S.D. College* IA, ISc, BA, BSc
Principal—R C Sharma, MSc 17 Teachers

PANIPAT, *Arya College*. IA, ISc, BA, BSc
Principal—L. D Dikshit, MA. 19 Teachers

PANIPAT, *I. B. Bharatri College for Girls* IA.
Principal—Miss Anita Shrikent, MA 8 Teachers.

PATHANKOT, *S.M.D.R.S.D. College* IA, ISc,
BA. Principal—F C Arora, MA 20 Teachers.

PATIALA, *Govt College for Women* IA, BA
Principal—Mrs G Parampal Singh, MA 22
Teachers

PATIALA, *Govt Gurmukhi Vidyalya* Budhiman,
Vidwan, Gyani. Principal—

PATIALA, *Govt Sanskrit Vidyalya* Prajna,
Visharad, Shastri, Rattan, Bhushan, Prabhakar
Principal—D Dutt, Acharya 14 Teachers

PATIALA, *Khalsa College* IA, ISc Principal—
Ganda Singh, MA Ph.D. 8 Teachers

PATIALA, *Mahendi College* IA, ISc, BA, BSc,
MA Principal—G Lal, MA DSc Brussels 76
Teachers

PATIALA, *Yadwinda College* IA, ISc, BA,
BSc Principal—Lt-Col F A von Goldstein,
MA Camb. 13 Teachers

PIAGWARA, *Rangarha College* IA, ISc, BA,
BSc, MA Principal—Amar Singh, MA LLB
28 Teachers

QADIAN, *Sikh National College* IA, ISc, BA,
BSc Principal—Harkishan Singh, MA 19
Teachers

RAMPUR BUSHAH, *Govt College* IA, ISc, BA
Principal—B L Handa, MA 13 Teachers

REWARI, *Ash College*. IA, ISc, BA Principal
—Dharam Singh, MSc 24 Teachers

ROHTAK, *All India Jat Heroes' Memorial
College* IA, ISc, BA, BSc Principal—Lt-Col
T Chand, MA CertEd 40 Teachers

ROHTAK, *Govt College* IA, ISc, BA, BSc,
MA Principal— 45 Teachers

ROHTAK, *Govt College for Women* IA, ISc,
BA Principal—Miss A Dass Gupta, MA Birm,
Assoc Inst of Educn, Lond, BA BT 17 Teachers

ROHTAK, *Vaish College* IA, ISc, BA, BSc
Principal—H C Batra, MA Ph.D. BT 34
Teachers

RUPAR, *Govt. College*. IA, ISc, BA, BSc
Principal—P C Joshi, MSc Ph.D. 35 Teachers.

SANGRUR, *Ranbu College* IA, ISc, BA Prin-
cipal—N K. Aggarwal, MA 24 Teachers

SANGRUR, *Ranbu College for Women*. IA.
Principal—Mrs L. Vaishnava, MA BT 7
Teachers

SATHIALA (AMRITSAR), *National College* IA,
ISc, BA Principal—Kartar Singh, MA 11
Teachers

SIDHWAN KHURD (LUDHIANA), *Khalsa College
for Women* IA, BA Principal—Miss A
Kuriyen, MA BT 10 Teachers

SIMLA, *Rana Padam Chand S.D. Bhargava
College* IA, ISc, BA, BSc, MA. Principal—
A R. Khanna, MA 34 Teachers.

SIRSA, *National College* IA, ISc, BA Principal—G S Talib, MA 16 Teachers
 SOLAN, *Govt College* IA, ISc, BA Principal—S D. Puri 18 Teachers
 SONPAT, *Chhotu Ram Arya College* IA, ISc, BA Principal—S N Sanyal, MA BT 21 Teachers
 SONPAT, *Hindu College* IA, ISc, BA, BSc Offg. Principal—O. P. Dogra 52 Teachers

TANDA URMAR, *Govt College* IA, ISc, BA Principal—D P Gupta, MA Dipl. in French 25 Teachers
 YAMUNA NAGAR, *D A V College for Girls* IA, BA Offg. Principal—Mrs N Banerji, MA. 12 Teachers
 YAMUNA NAGAR, *M L National College*. IA, ISc, BA * Principal—Tilak Raj, MA 23 Teachers

PROFESSIONAL COLLEGES

AMBALA CITY, *Sohan Lal Training College* BT, Dipl in Gen Sci Principal—R L Ahuja, MA BT PhD 9 Teachers

AMRITSAR, *Dental College* BDS. Principal—J. C Manchanda, BA 11 Teachers

AMRITSAR, *Khalsa College* BSc(Agn). Principal—Naryam Singh, MA 11 Teachers.

AMRITSAR, *Khalsa Training College* BT, Dipl in Gen Sci Principal—Gurnam Singh, MA BT 10 Teachers.

AMRITSAR, *Medical College*. MB BS, BSc DTD, DOMS, Dipl. in Anaesth, Dipl in Pharmacy and Dressers' Course. Principal—S. S Anand, MB BS, FRCS, FACS 121 Teachers

AMRITSAR, *Satswati Training College for Women* BT Principal—Miss P Bhatia, MA BT 9 Teachers.

BAIJNATH, *J.S.D Basic Training College*. BEd Basic Principal—Miss K Syal, MA MEd Lond 5 Teachers

BHIWANI, *K M Teachers' Training College*. BT, BEd Basic Principal—Deva Singh, MA 8 Teachers

BHIWANI, *Technological Institute of Textiles* BSc(Textiles) Principal—D. L. Sen, MScTech Manc., MSc Bom., FRIC 16 Teachers

CHANDIGARH, *Govt. Basic Training College*. BEd Basic. Principal—V. S Mathur, MA Lond., DipEd Camb. 19 Teachers.

CHANDIGARH, *Punjab Engineering College*. BSc (Engg) in civil, mech and electr engin; MSc (Engg). Principal—R. L. Khanna, MIE(India) 77 Teachers

CHANDIGARH, *Punjab University Law College* LLB Principal—U C Sarkar, MA ML LLD 21 Teachers

DHARAMSALA, *Govt Postgraduate Basic Training College* BEd Basic Principal—N L Dosajh, MA PhD 12 Teachers

FARIDKOT, *Govt Training College* BEd Basic. Principal—V. B. Taneja, MA MEd EdD

FEROZEPUR, *Dev Samaj Training College for Women* BT. Principal—D. Bir, MA BT. 13 Teachers.

GURUSAR SADHAR, *G.H.G. Khalsa Training*

College BT. Principal—R K. Arora, MA BT. 6 Teachers

HISSAR, *Punjab College of Veterinary Science and Animal Husbandry* BVSc Principal—M L. Kohli, MS, FRVCS 34 Teachers

JULLUNDUR, *Govt Training College for Teachers* BT, MEd Principal—V R Taneja, MA BT 20 Teachers

JULLUNDUR, *Montgomery N N Basu Training College* BEd Basic Principal—Harnam Singh, MA BT 12 Teachers

JULLUNDUR, *University College of Commerce* BCom Principal—K. Dutta, MA Camb, BCom Lond 7 Teachers

KARNAL, *Dary Science College*. BScDairying, MSc Principal—N Dastur, MSc PhD 21 Teachers

LUDHIANA, *Christian Medical College* MB BS Principal—M. A Casberg, MB BS Lond 83 Teachers

LUDHIANA, *Govt Agricultural College* Agric — BSc, MSc Principal—Sardar Singh 77 Teachers

LUDHIANA, *Guru Nanak Engineering College* BSc(Engg) in civil, electr and mech engin Principal—Tara Singh, BSc(Eng) Lond, M&EE Roorkee, MIE(India) 51 Teachers

LUDHIANA, *Malwa Training College*. BT, Dipl in Gen Sci Principal—Sher Singh, MA PhD 8 Teachers

MOGA, *D M Training College* BEd Basic, Dipl in Gen Sci Principal—G S Purea, MA BT 9 Teachers

MUKTSAR, *Khalsa Training College* BEd Basic Principal—S Iqbal Singh, MA 7 Teachers

NAWANSHAHR DOABA, *Dr Amar Nath Training College* BT Principal—S S Lal Mehra, MA MEd 5 Teachers

PATIALA, *Dental College* BDS Principal—Amarjit Singh, MD, MRCP 10 Teachers

PATIALA, *Govt. Bikram College of Commerce*. BCom Principal—R Narain, MA BCom LLB 6 Teachers.

PATIALA, *Govt. College of Physical Education*.

Dipl in phys educn, BPE Principal—S. R Mahindoo, BA 6 Teachers

PATIALA, *Govt Medical College* MB BS, MD, MS Principal—Amarjit Singh, MD, MRCP 85 Teachers

PATIALA, *State College of Education* MEd, BEd Basic. Principal—J N Dubeja, Dip Educn/Admin Leeds, MA. 22 Teachers.

PATIALA, *Thapar Institute of Engineering and Technology* BSc(Engg) in civil, electr and mech engin Principal—S L. Kumar, MIE(India) 48 Teachers

PHAGWARA, *Rangraha Training College* BT Principal—Sampuran Singh, MA DipEd Lond 10 Teachers

REWARI, *Teachers' Training College* BT. Principal—S Swarup 8 Teachers

ROHTAK, *Chhotu Ram College of Education*. BEd Basic, Dipl. in Gen Sci. Principal—S S Gill, MA 10 Teachers

ROHTAK, *Vaish College* BCom. Offg Principal—H. C. Batra, MA PhD BT 14 Teachers.

SIDHWAN KHURD, *Khalsa Basic Training College for Women* BEd Basic Principal—A. S. Sodhi, MA MEd 12 Teachers

SIMLA, *Govt. Training College for Women*. BT Principal—Miss K Pasricha, MA MEd BT 13 Teachers

SOLAN, *Govt Basic Training College* BEd Basic Principal—N L Kachroo, MA BT 11 Teachers

GENERAL INFORMATION

Following the partition of the Panjab, the univ. was establd in Oct 1947, under ordinance No VII, promulgated by the governor of the Panjab. This ordinance was subsequently replaced by the Panjab Univ. Act No. VII of 1947. At present the univ's jurisdiction extends over the Panjab and Himachal Pradesh.

All the univ. teaching depts except journalism are now located in Chandigarh.

The univ. is a teaching, affiliating and examining body and is open to all, irrespective of colour, creed, class or sex.

CONSTITUTION. The univ. consists of the chancellor, vice-chancellor, senate, syndicate. The governor of the Panjab is *ex-officio* chancellor of the univ. The vice-chancellor, apptd by the chancellor, holds office for 3 yrs. but is eligible for reappnt. The senate have the entire management of, and superintendence over, the affairs and property of the univ. in accordance with the statutes, rules and regns. The executive govt of the univ. is vested in the syndicate, which consists of the vice-chancellor as chairman, the dir of public instructn., Panjab, and 15 *ex-officio* or ordinary fellows elected by the facs. The registrar is chief executive officer of senate and syndicate.

INCOME (1959-60) Rs. 21,588,530 (state govt., Rs. 1,648,182, central govt., Rs. 2,774,253, UGC grants, Rs. 4,519,056, tuition, exam & other fees, Rs. 12,647,059).

FACULTIES AND DEANS *Agric*, Principal Sardar Singh, *arts*, Jodh Singh, *comm*, Hon Justice Teja Singh, *educn*, Miss Serla Khanna, *engin & technol*, Principal Tara Singh, *law*, Dr M C Mahajan; *lang*s, Prof. D. C Sharma; *med*, Principal S S Anand, *sci*, Prof P N Mehra, *vet sci*, Principal M L Kohli, dean of univ. instructn, Prof P N Mehra

LIBRARIES Univ libr (at Chandigarh) about 150,000 vols

LABORATORIES. Bot., chem., geog, geol., maths, phys., psychol, zool, all at Chandigarh.

TEACHING HOSPITALS are attached to all 3 med colls in the state

ADMISSION The min. qualif. necessary for admission to the univ. is the passing of the matric., higher secondary exam or an exam. recog as equivalent

FIRST DEGREES BA, BSc, BSc(Agr), 4 yrs after matric, BSc hons sch. (in bot, chem, phys, zool), 3 yrs after inter sci, BPhil in Engl, maths, econ. and Sansk, 3 yrs after inter, BCom, BSc(Textiles), 3 yrs after inter, BSc (Dairying), 3 yrs after inter (non-med group), BSc(Engg), BVSc, 4 yrs after inter sci, BSc (ChemEngg), 4 yrs after inter (non-med group); BPharm, 3 yrs after inter (med group), MB BS, 5½ yrs. after inter (med group), BDS, 4 yrs after inter (med group)

HIGHER DEGREES BT, BEd, 1 yr after grad, LLB, 2 yrs. after grad, LLB (final), 3 yrs after grad MA in Engl, maths, hist, pol sci, econ, Sansk, Hindi, Panjabi, Persian, Arabic, Urdu, German, French, philos, psychol, geog, 2 yrs after grad MSc hons sch in phys, chem, bot, zool., chem technol, 1 yr after BSc hons sch MSc(Engg) in highway engin, 1 yr after BSc(Engg) MSc(Agr), 2 yrs after BSc(Agr), MCom, 2 yrs. after BCom. LLM, 1 yr after LLB final MEd, 3 yrs after BA, BT, or 1 yr after MA, BT. MS, MD, by thesis and exam, 3 yrs after MB BS MPharm, 1 yr after BPharm MVSc, 3 yrs after BVSc. PhD (arts and sci), by thesis, 3 yrs after master's degree DLitt, DSc, by thesis, 6 yrs after master's degree DOL (oriental), 6 yrs after master's degree LLD, by res after LLM degree PhD (med), by thesis and exam., 3 yrs after MB BS.

PRIVATE CANDIDATES. Men in certain professions such as teaching, librarianship or univ. service may appear as private candidates in arts but not sci. Women may appear as private candidates in arts but not sci., they may not

appear for any professional exam., nor for the master's degree in sci.

DIPLOMAS Pharmacy & dressers' course, 2 yrs. after matric, French, 2 yrs after inter, gen sci., 2 yrs after inter sci.; journalism, phys educn., each 1 yr after 1st degree, anaesthesiol., ophthalmic med & surg. (DOMS), tuberculosis dis. (DTD), each 1 yr after MB BS or LMS; laryngol. & otol. in abeyance.

CERTIFICATES in oriental langs, each 1 yr. Rattan, Bhushan, Prabhakar (in Hindi), Pragna, Visharad, Shastri (in Sansk.), Bhudiman, Vidwan, Gyani (in Panjabi)

STUDY LEAVE up to 2 yrs, on three-quarters' pay, is granted after 5 yrs.' permanent service

FEES for tuition BSc hons. sch., BScChem Engg., BPharm, BSc hons. geol., Rs. 15 p.m., MA (incl. geog.), Rs. 15 p.m.; MA in psychol., MSc hons. sch., MPharm, MSc in geol., Rs. 25 p.m.

ACADEMIC YEAR July to April: 3 terms Term dates (approx.) July 13 to Sept. 19, Oct. 4 to Dec. 24, Jan. 2 to April 16

LANGUAGE OF INSTRUCTION. Engl, except in classical and mod. Indian lang. classes, where the medium of instrum. is the lang. concerned or an allied lang. As part of the policy of replacing Engl. by Hindi and Panjabi, MA exams in Hindi and Panjabi are conducted in the lang. concerned and the MA exam in Sansk. in Sansk., Hindi and Panjabi. A candidate for the matric, inter, BA, BCom exams can choose Engl. and any one of the Indian langs. (Urdu, Hindi or Panjabi) for papers in subjects other than Engl.

EXTENSION LECTURES. The univ. invites specialists to address the students in various colls under the scheme of the Univ. Grants Commission

ENTRANCE SCHOLARSHIPS. 129 scholps. are awarded on the results of the matric exam and 67 on those of the inter exam

STUDENT RESIDENCES. Every affiliated coll. has a hostel attached. No student is admitted until his residence is arranged. Every student of a coll. not living with parents or guardians must reside during teaching period at an approved hostel or lodge. There are 4 hostels (accomm. 1320) on the univ. campus at Chandigarh

STUDENT HEALTH. Each affiliated coll. has a med. officer

SPORT. The dir. of phys. trg. is in charge of the phys. welfare of male students, the directress is in charge of that of female students. In addn., each affiliated coll. has a phys. dir. who conducts sports and other phys. activities among students of the coll.

NATIONAL CADET CORPS. A no. of NCC bns. have been allotted to 81 colls. for men. This corps has taken the place of the univ. O.T.C. Members of the NCC may offer military trg. as addnl. optional paper (in place of addnl. optional vernacular) for the inter. and degree exams

FOREIGN INFORMATION BUREAU. The univ. foreign information bureau deals with enquiries about professional studies, technical trg. and facilities for higher res. from students who wish to go abroad for further study at their own expense, Sec.: Prof. P. N. Mehra

WELFARE DEPARTMENT. To organize the welfare activities of the students, the univ. has a separate youth welfare dept. at Chandigarh

PUBLICATION BUREAU. Started in 1948 to prepare and encourage the publicn. of standard works in Hindi and Panjabi

PUBLICATIONS. *Calendar*; *Univ. News* (every 2 mos.), *Arts and Sci. Journals* (from time to time)

A UNIVERSITY PRESS has been set up to deal with most printing work except books. New machines are being installed so that books may be printed at the press

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	50,279	2090
Women	11,153	4
Total	61,432	2094

Distribution by Faculties. *Agric. & dairy sci.*, 1225; *arts*, 26,792; *comm.*, 279; *educn.*, 2566; *engin. & technol.*, 1912; *law*, 1047; *med.*, 1549; *oriental*, 248; *sci.*, 12,296; *vet. sci. & animal husb.*, 340; *pre-univ. (arts & sci.)*, 15,272. Total. 63,526

Included in the figures above are —

Intermediate students, 20,954

Pre-university (arts & science) students, 15,272

Postgraduate students, 1957

New admissions, 34,522

Students from other countries, 130 (Countries from which largest numbers came: Fed. of Malaya, 46; Africa, 42; Burma, 6)

DEGREES AWARDED (1960). BA, 3967; BSc, 823; BSc hons. sch., 83; BSc(Engg.), 197; BCom, 91; BSc(Agric.), 126; LLB, 155; LLB (final), 128; BVSc, 85; BPharm, 10; BT, 991; BEd, 742; MA, 1905; MB BS, 185; BDS, 25; BSc(Textiles), 46; MEd, 15; MSc hons. sch., 85; MSc(Agric.), 27; MSc(Engg.)(highway), 24; MCom, 1; BSc(Dairying), 11; LL.M., 1. PhD (all fcs): 22.

DIPLOMAS AWARDED (1960) Journalism, 69; DPE, 50; DTD, 2; teaching of gen. sci., 85; pharm. and dresser's course, 40; French, 1; anaesthesiol., 4

PATNA UNIVERSITY*

Founded 1917

Postal Address - Patna 5, Bihar State, India
Cables and Telegrams Patversity, Bihar State
Telephones Registrar, Patna 2322, Office, Patna 4101

CHANCELLOR—H E THE GOVERNOR OF BIHAR (*ex officio*)
 VICE-CHANCELLOR—B N RAI
 TREASURER—S A. HUSAIN
 REGISTRAR—B L THAKUR, PhD *Bam*, MSc
 ACTING BUDGET AND ACCOUNTS OFFICER—R P SINHA, BA BL
 DEPUTY REGISTRAR—S. Y HUSSAIN, BA

HEADS OF UNIVERSITY TEACHING DEPARTMENTS

Anatomy Sinha, T P, MS <i>Penn</i>	Prof	Geology Chatterji, S C, DSc <i>Calc.</i> , FNI	Tata Prof
Ancient Indian History and Archaeology Sinha, B P, MA PhD <i>Lond</i>	Univ Prof	Hindi Sharma, N V, MA	Asst Prof
Applied Economics and Commerce Misra, B R, MA LLB PhD DSc <i>Lond</i>	Univ Prof	History Sharansharma, R, MA PhD	Univ Prof
Arabic Ahmad, S A, MA DLitt	Univ Prof	Labour and Social Welfare Sinha, G P, MA PhD	Univ Prof
Bengali Ghoshal, S N, MA PhD	Reader	Maithili Jha, S, MA PhD <i>Lond</i>	Univ Prof.
Botany Roy, R P, MSc PhD <i>Camb</i>	Univ Prof	Mathematics Charar, V R, DSc	Prof
Chemistry Sinha, P C, MSc PhD	Prof	Medicine Das, M, MB BS DTM DMRE, MRCP	Prof
Economics Jha, D, MA	Prof	Obstetrics and Gynaecology Upadhyay, S N, MD	Prof.
Education Prasad, R, MSc MEd	Prof	Ophthalmology and Otorhinolaryngology Sinha, A K, MS DLO DO	Prof
English Sinha, R K, MA DPhil <i>Oxon</i>	Univ Prof	Pathology Modi, N L, MD PhD DipInBact DCP	Prof.
Geography Dayal, P, MA PhD <i>Lond</i>	Univ Prof	Persian Rahman, A, MA BL	Prof

* Member of the Association of Universities of the British Commonwealth

Pharmacology		Sanskrit	
Achari, G., MD PhD	Prof	Pandey, C. K., MA	Asst Prof.
Philosophy		Sociology	
Jha, H M, MA	Univ Prof	Prasad, N, MA Col & Patna, DLitt	Univ Prof.
Physics		Statistics	
Chatterjee, L M, MSc	Prof	Lal, D N MA PhD	Univ Prof.
Physiology		Surgery	
Sinha, A S, PhD Lond, MD	Prof	Singh, V N, MB BS, FRCS	Prof.
Political Science		Urdu	
Muhar, P S, MA PhD Harv.	Univ Prof	Ahmad Uranvi, S A, MA DLitt	Univ Prof
Psychology		Zoology	
Mohsin, S M, MA PhD Lond	Univ Prof	Keshava, S., PhD Edin, MSc	Prof

ADMINISTRATIVE AND OTHER STAFF

Administrative Officer R. P Sinha, BA BL.

CONSTITUENT COLLEGES

[† = Part-Time ; BA, BSc, etc., after the name of a coll means that courses are provided there for BA, BSc, etc.]

BANKIPORE (PATNA), *Bihar National College* (tel : 4369) BA, BSc Principal—D P Vidyarthi, MA PhD Lond Profs. ENGL—S. R. Prasad, MA, HIST.—B. P. Mazumdar, MA PhD; HINDI—R. Nughawan Singh, MA, SANSE—V Shastri, MA, PERS.—A. Khair, MA, URDU—S. N. Karim, MA; ECON.—S. K. Bose, MA; PSYCHOL.—K. K. Jamuar, MA, POL.—S. L. Singh, MA, MATHS.—L. M. M. Prasad, MA; PHILOS.—A. K. Verma, MA, CHEM.—J. C. Banerjee, MSc PhD Lond; PHYS.—B. Nath, MSc, BENGALI—J. N. Ghosh, MA. 71 other Profs and Lectrs

BANKIPORE (PATNA), *Magadh Mahila College* (tel 3454) BA, BSc Principal—Mrs Ramola Nandi, MSc Lond, MA; HINDI—Lectr. Mrs. Vidyawati Gupta, ENGL.—Miss Ila Rani Malluck, MA (on leave); HIST.—Mrs Jyotirmoyee Basu, MA, ECON.—Mrs. Ashalata Bose, MA; CHEM.—Miss Rani Misra, MSc PhD, PHYS.—Mrs. Pratima Sanyal, MSc, BOT.—Mrs Beatrice S Dutta, MSc; ZOOL.—Mrs Gauri Ganguly, MSc PhD; PHYSIOL.—Miss Anima Sen Gupta, MA PhD, PSYCHOL.—Mrs. Sharda Sinha, MA, POL. SCI.—Mrs. Bhagyawati Singh, MA; SANSE—Mrs Aditi De, MA; BENGALI—Miss Aruna Roy, MA, DOM SCI.—Mrs Pramila Verma, MA, MUSIO—Uma Rauth, MA. 13 other Lectrs

BANKIPORE (PATNA), *Patna Training College* (tel : 4425) Dipl in educn. Principal—D P. Gupta, PhD Bihar, MA MEd. 4 other Teachers

BANKIPORE (PATNA), *Patna Women's Training College* (tel : 2712). Dipl in educn Principal—

Mrs Shakuntala Sinha, MA DipnEd 4 other Teachers

BANKIPORE (PATNA), *Prince of Wales' Medical College* (tel : 2284) MB BS Principal—V N Singh, MB BS, FRCS Profs OPHTHALMOL—D K. Bose, DO, MRCP, ANAT.—M. Haque, MB BS, BIOCHEM.—A. Sharan, PhD Leeds, MB BS, PHYSIOL.—M. P. Sinha, MD Zür, MB BS, PREV AND SOC MED—J. P. Agrawal, DTM&H Liv, DPH Lond, MB BS, MED—M. Das, MRCPed, surg—R. V. P. Sinha, MS, FRCS, PHARMACOL.—B. K. Achary, MD, PATHOL.—A. K. Guha, FORENSIC MED—S. M. Prasad, MB BS DMRE, OBSTET AND GYN/ECOL.—H. B. Sinha, MS 40 other Profs and Lectrs

MAHENDRU (PATNA), *Bihar College of Engineering* (tel : 2185). BSc(Eng) Actg. Principal—D. N. Singh, BSc(Eng) PhD. 41 other Profs. and Lectrs

MAHENDRU (PATNA), *Lavo College* (tel 2368). BL, ML Principal—V V Deshpande, MA LL.M Bom Vice-Principal—S. A. Varis, MA Camb 25 other Lectrs †

PATNA, *Institute of Music* Cert. in music Dir —L. N. Kapoor; Instr.

PATNA, *Institute of Psychological Research and Service*. Dir—A. K. P. Sinha, MA PhD

PATNA, *Institute of Public Administration*. Dir.—Prof P. S. Muhar, MA PhD Harv., Asst. Dir.—S. P. Srinavastava, MA

PATNA, *Patna College* (tel : 4329). BA, BCom. Principal—I. Hussain, MA BL PhD Hds. of

Depts HINDI—S. N. Prasad, MA D.Litt.,
SANSK.—B. Jha, MA, ENGL.—D. D. Chatterjee,
MA, HIST.—Prof. S. H. Askari, MA PhD,
PSYCHOL.—T. Nath, MA, ARABIC—A. A.
Kazimi, MA, PERSIAN—... , URDU—S. M.
Sadriddin, MA, MATHEMATICS—A. Mishra, MA,
ECON.—R. N. Tripathi, MA PhD Lond.,
MATHS.—S. C. De, MA PhD, POL. SCI.—T. B.
Mukherjee, MA PhD 45 other Profs and Lectrs

PATNA, *Patna Women's College* (tel. 2186)
BA Principal—Sister Mary Lucile, MA Lond.
Profs. ECON.—Rev. Sister Mary Florence;
GEOG.—Sister Honoline, MATHS.—Miss Abha
Mitra, PHILOS.—Mrs Aruna Halder, MA, HIST.—
Rev. Sister Mary Scholastica, HINDI—Mrs.

Jamuna Verma, MA, CHEM.—Sister Marialla;
PHYS.—Miss Bodapati V. Sitakumari, BENGAL—
Miss Bela Sen Gupta, MA, SANSK.—Miss Roma
Bose, MA, URDU—Mrs. Mammoona Jafri, MA.
17 other Lectrs

PATNA, *Science College* (tel. 2242). BSc
Principal—N. S. Nagendra Natt, PhD, FNI.
Hds of Depts: MATHS.—R. K. P. Singh, PhD
Lond., GEOL.—A. P. Jam, MSc; ZOOL.—R. K.
Sharan, PhD Edin., MSc, BOT.—A. S. Yadav,
PhD Lond., PHYS.—L. M. Chatterjee, MSc;
CHEM.—A. B. Cal, PhD Lond., ENGL.—K. N.
Misra, MA, HINDI—A. Sinha, MA. 56 other
Profs and Lectrs.

AFFILIATED COLLEGES

GAYA, *Gautam Budha Mahila College* BA
Principal—Mrs Savitri Mahajan, MA

GAYA, *Gaya College* BA, BSc, BCom Prin-
cipal—K. S. Varma, MA PhD

GAYA, *Jagjivan Mahavidyalaya* BA Prin-
cipal—A. Prasad, MA

GAYA, *Kanha Lal Sahu College*, P.O. Nawada.
BA Principal—B. Prasad, MA

GAYA, *Sachchidananda Sinha College*, Auranga-
bad. BA, BSc, BCom Principal—A. Choubey,
MA

GAYA, *Swami Sahayanaanda College*, P.O.
Jahanabad BA, BSc Principal—C. N. Sharma,
MA

PATNA, *A N College*, Anisabad, Patna, 2 MA,
BL. Principal—A. K. Narayan, MA BL.

PATNA, *A.N.S. College*, Barh BA, BSc Prin-
cipal—S. Prasad Singh, MA

PATNA, *Bihar Veterinary College*, Patna, 2
BVSc Principal—H. R. Kapoor, MVSc

PATNA, *Bundeshwar Singh College*, Dinapole
BA, BSc Principal—P. Choudhary, MA

PATNA, *College of Commerce*, Kankebagh,
Patna, 6. BCom, BSc Principal—S. A. Majid,
MA PhD Lond.

PATNA, *G. J. College*, Rambagh, P.O. Bihta.
BA. Principal—A. K. Sinha, MA.

PATNA, *Government Dental College*, Patna, 4
BDS Principal—R. P. Lall.

PATNA, *Guru Gobind Singh College*, Patna, 8.
BA Principal—Sardar G. S. Talib, MA

PATNA, *Jagat Narayan College*, P.O. Khargaul
BA Principal—Murlidhar Shrivastava, MA

PATNA, *Kisan College*, P.O. Sohsrai BA,
BCom. Principal—R. B. Sinha, MA

X

PATNA, *Maitidhari College*, P.O. Naubatpur
BA Principal—Bangali Singh, MA

PATNA, *Nalanda College*, P.O. Biharsahai
BA, BSc Principal—R. S. Bahadur, MA PhD.

PATNA, *Ram Ratan Singh College*, P.O. Moka-
meh. BA. Principal—J. P. Sinha, MA

PATNA, *Shri Chand Udarn College*, P.O. Hilsa
BA Principal—I. S. Jha, MA BCom.

PATNA, *Somewati Mahtab Das College*, Shripal-
pur, P.O. Poon-Poon. BA. Principal—S. K.
Sinha, MA

PATNA, *Thakur Prasad Singh College*, Sikandar
Munzil, Patna, 1 BA Principal—P. Sharma,
MA

SHAHABAD, *Anyabit Singh College*, P.O. Bikam-
ganj BA. Principal—T. Natayan Prasad Singh,
MA.

SHAHABAD, *Dharichhana Kuari College*, P.O.
Durmari. BA. Offg Principal—G. Jha, MA

SHAHABAD, *Haripad Das Jain College*, P.O.
Arrah BA, BSc, BCom Principal—P. Roy, MA

SHAHABAD, *Mohans Vishwamita Mahavidya-
laya*, P.O. Buxai BA Principal—B. Prasad,
MA

SHAHABAD, *Mahanth Mahadwanand Mahila
Mahavidyalaya*, Arrah BA Principal—Mrs
Jutnika Motra, MA

SHAHABAD, *Maharaja Ram Ramvayoy Prasad
Singh College*, P.O. Arrah BA, BSc Principal—
J. P. Singh, MA.

SHAHABAD, *Sardar Vallabhbhai Patel College*,
P.O. Bhubua BA Principal—C. Prasad, MA

SHAHABAD, *Shanti Prasad Jain College*, P.O.
Sasaram BA, BSc, BCom Principal—K.
Saran, MCom

SHAHABAD, *Jagmwan College*, P.O. Arrah. BA
Principal—R. Nareish Singh, MA

GENERAL INFORMATION

Founded as a teaching and affiliating univ., 1917. Most of the teaching was originally conducted in the 'admitted colleges'. From 1952 to 1960 the univ was teaching and residential under the Patna University Act, 1951, with its jurisdiction within the Patna corporation area. From 1960 it has been a teaching and affiliating univ with its jurisdiction within Patna div. In place of the Patna Univ Act, 1951, and the Bihar Univ. Act, 1951, there has come into force the Bihar State Univs Act, 1960, with effect from July 12, 1960. Consequently 4 univs (one in each div) have been established by the state legislators: (1) Patna Univ, Patna, (2) Bihar Univ, Muzaffarpur; (3) Bhagalpur Univ, Bhagalpur, and (4) Ranchi Univ, Ranchi.

CONSTITUTION The authorities of the univ. are the senate, syndicate, academic council, facs, bd. of courses & studies, and such other authorities as may be constituted by the statutes from time to time.

INCOME (1959-60) Total income, Rs. 12,796,747 (govt sources, Rs 8,472,117, fees, Rs 2,305,953, endowments, Rs 22,500, other sources, Rs 1,996,177)

FACULTIES AND DEANS *Arts*, Prof. P S Muhar (pol sci.), *comm*, Prof. B R. Misra (appl econ), *educn*, Prof R Prasad, *engin*, Principal D N Singh; *law*, Principal V V Deshpande, *med*, Prof V N Singh (surg), *sci*, Prof R P Roy (bot); *vet sci*, Principal H. R Kapoor

LIBRARY 99,799 vols

ADMISSION For admission to inter courses, students are required to have passed the secondary sch exam. or an exam recog by the univ. as equivalent. For admission to a degree course students must have passed the inter exam or equivalent

Note.—With effect from July 1960, the univ. has introduced a 3-yr degree course, to the 1st yr (pt. I) of which a candidate will be eligible for

admission only if he has passed the pre-univ. exam. in arts, sci. and comm., or the higher sec. sch exam., or other exam recognized as equivalent thereto. Complete course lasts 3 yrs with univ exam at end of 1st and 3rd yrs. Pre-univ course 1 yr.

FIRST DEGREES BA, BA (hons), BCom, BSc (Eng), BL, BSc, BSc (hons), 2 yrs from inter, BVSc, 4 yrs.; MB BS, 5 yrs

HIGHER DEGREES MA, MCom, MSc, MSc (MedSc), ML, MVSc, 2 yrs from corresp bachelor's degree. MEd, 1 yr from dipl in educn. Research degrees. PhD (in arts, comm, educn, med, sci), DLitt, DSc, MD, MS

DIPLOMAS Pub admin, educn, internat reins, tuberculous dis. (DTD), child health (DCH), ophthalmol (DO), laryngol. & otol. (DLO), anaesthesiol (DA), gynaeol. (DGO), clin pathol (DCP) 1 yr

CERTIFICATE. Music, 3 yrs.

STUDY LEAVE. The univ grants leave each yr. to a number of teachers for higher studies abroad. In addn., leave on half average pay is also granted. A revolving fund has also been created to grant interest-free loans to univ teachers for study abroad

FEES BA, BCom, Rs. 117 p a; BA (hons), BSc, Rs. 129 p a, BSc (hons), Rs 141 p a, BL, Rs 144 p a.; BSc(Eng), Rs 96 p a, MB BS, Rs 150 p a, ML, Rs 240 p a, MA, MCom, Rs 150 p a, MSc, Rs 168 p a

ACADEMIC YEAR June to May 3 terms.

The Usual Language of Instruction is Hindi up to bachelor degree standard and English at postgrad level.

PUBLICATIONS (all annual) *Calendar*, Rs 4, *Minutes*, Rs 2; *Courses of Studies* for each exam, 50 n p, *Question Pamphlets* (each exam, 50 n p), *Regulations*, R 1, *Readership Lectures* (on a variety of subs.), R 1 25 n p to Rs 12

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	27,171	—
Women	2,024	—
Total	29,195	—

Distribution by Faculties *Arts*, 18,313, *comm*, 1982, *educn*, 244; *engin*, 621, *law*, 784, *med*, 964, *sci*, 5884, *vet sci*, 403. Total 29,195

Included in the figures above are —

Pre-University students, 10,602

Postgraduate students, 2312

New admissions, 13,011

DEGREES AWARDED (1959-60) *Arts* BA, 774, MA, 671, DLitt, 2. *Comm* BCom, 96, MCom, 82. *Educn* MEd, 21. *Engn* BSc (Eng), 77. *Law* BL, 133. *Med* MB BS, 128, MSc(MedSc), 2, MS, 22; MD, 19. *Sci* BSc, 123, MSc, 152, DSc, 1. PhD (all facs) 13

DIPLOMAS AWARDED (1959-60). *Educn*, 175; pub admin, 2, anaesthesiol, 2; child health, 6, clin pathol, 6, gynaeol & obstet, 2, laryngol & otol, 3; ophthalmol, 4, TB dis, 3

CERTIFICATES AWARDED (1959-60) Music, 1

UNIVERSITY OF POONA

Founded 1948

Postal Address Ganeshkhund, Poona 7, Maharashtra State, India

Telegrams : Unspuna

Telephones Poona 6061-3

CHANCELLOR—SRI PRAKASA, Governor of Maharashtra

VICE-CHANCELLOR—Mahamahopadhyaya D V POTDAR, BA

DEANS OF FACULTIES—AGRICULTURE—Principal A A MEMON, MSc(AgrilEng) III ; ARTS—Professor R N DANDEKAR, MA Bom, PhD Berl. (Sanskrit), AYURVEDA—Dr B C LAGU, COMMERCE—M R DHERNEY, MA MCom PhD, ENGINEERING—Professor G K OGAL, MSc ME, LAW—Professor W D ADKE, BA LLB, MEDICINE—Principal C L MODI, FRCS; MENTAL, MORAL AND SOCIAL SCIENCES—Principal S V KOGKAR, BSc(Econ) Lond, SCIENCE—Professor N R KULKARNI, MSc

REGISTRAR—W. H. GOLAY, BA Bom., DipEngl DipJournalism Lond

TEACHING STAFF

[Teachers apptd. by the univ.]

Botany

Mahabale, T S, BA MSc PhD, FNI Univ Prof
Balakrishnan, M S, MA MSc Univ Reader
David, S. B., MSc PhD Univ Reader
Javalgi, S. R., MSc Lectr.
Varhadpande, D. G., MSc Lectr.
Parthasarathi, M. V., MSc Lectr.

Chemistry

Kulkarni-Jatkar, S K, DSc, FRCS, FIP Univ. Prof
Narasimhan, BSc PhD Univ Reader
Phansalkar, V. K., MSc PhD Reader
Joshi, P. N., MSc PhD (on leave) Lectr.
Marathe, K. G., MSc PhD Lectr.
Kale, N. R., MSc Lectr.
Tulpule, S. H., BSc(Agr) MSc PhD Lectr.

Experimental Psychology

Kothurkar, V. K., MA Bom, BA Camb Univ Reader

French

Sohoni, Y K, BA BSc Lectr

Geography

Gananathan, V. S., MA Madr & Syr Univ. Reader
Kshirsagar, K P, MA Lectr
Ramamurthi, K., BA MLitt LT Lectr
Gupte, S C. Lectr

German

Jankowsky, K, PhD Lectr
Kulkarni, B B, MA Lectr.

Hindi

Bhagirath Mishra, MA PhD Univ Prof
Jogalkar, N C., MA Lectr.

Linguistics

Kulkarni, E D, MA PhD Univ Reader
Sen Neelmadhav, MA PhD Univ. Reader
Panse, M. G., MA PhD Lectr.
Vale, R N., MA PhD Lectr

Marathi

Tulpule, S G, MA PhD Bom Univ Prof.

Mathematics

Huzurbazai, V S, MA PhD Camb., FNI Univ Prof
Madhav Rao, B S, DSc, FNI Prof
Venugopal Rao, V, MSc PhD Univ Reader
Bhaphar, V P, MSc Univ Reader
Adke, S R, MSc Lectr
Dharmadhikari, S W., MSc (on leave) Lectr
Deshpande, S. V., MSc Lectr.
Raja Rao, G., MSc PhD Lectr.
Vaidya, A. N., MSc Lectr.
Gopalakrishnan, N. S., MSc Lectr

Physics

Chiplonkar, M. W., DSc Univ Prof.
Laud, B B., MSc PhD Univ. Reader
Mande, C, PhD DSc Reader
Takavale, R. G., MSc Lectr.

Politics

Garde, D K., MA DLitt Univ. Prof.

Sirsikar, V. M., MA
Inamdar, N. R., MA PhD

Univ. Reader
Lectr

Zoology

Karandikar, K. R., MSc PhD Univ Prof
Mulherkar, Miss Leela, MSc PhD *Edin.*

Univ. Reader

Sanskrit

Dandekar, R. N., MA *Bom.*, PhD *Berl*

Univ. Prof

Ranade, D. R., MSc

Tonpi, G. T., MSc PhD

Lectr

ADMINISTRATIVE AND OTHER STAFF

Dep. Registrar: R. S. Sardeshpande, BA.
Asst Registrar R. B. Manerikar, MA LLB
Librarian K. S. Hingwe, DipLibSc *Madri*,
MA Controller of Exams D. G. Ramdas,
BA Sec., Foreign Univ Information and Em-
ployment Bureau A. B. Ailic, BSc. Sec., Bd
of Extra-Mural Studies. A. V. Naik, MA PhD

Sec., Bd of Sports V. N. Bhude, BSc Asst
to the Registrar G. M. Watve, MA Statistician
B. B. Kumbhakar, BA Office Supts G. J.
Abhyankar, BA, K. S. Venkatkrishnan, B. D.
Potdar, BSc Manager, Univ Press S. R.
Paranjape

CONSTITUENT DEGREE COLLEGES

[PD, BA, etc., after the name of a coll. means that courses are provided there for Pre-Degree
Arts, Science & Commerce, BA, etc., all exams being held by the univ.]

POONA, *Ayurveda Mahavidyalaya*, Poona 2
(tel. 2240) (1933) BAM&S. Principal—K. V.
Kulkarni 44 Teachers

POONA, *B. J. Medical College*, Poona 1 (tel.
3189) (1946). MB BS, MS, MD Dean—C. L.
Modi, FRCS. 39 Teachers.

POONA, *Brihan Maharashtra College of Com-
merce*, Poona 5 (tel. 3343) (1943) BCom,
MCom Principal—N. A. Mavalankar, MA LLB.
20 Teachers.

POONA, *College of Agriculture*, Poona 5 (tel.
2561) (1908) BSc(Agric). Principal—A. A.
Memon, MSc(AgricEng) *Ill.* 52 Teachers.

POONA, *College of Engineering*, Poona 5 (tel.
2685) (1854) BE (civil, mech, elect, metall
and telecommn), ME (civil, mech., elect.,
metall. and telecommn) Principal—G. V.
Vartak, BE. 63 Teachers.

POONA, *Fergusson College*, Poona 4 (tel. 3112)
(1885). BA(gen & spec), BSc, MSc(res.), PhD
Principal—S. V. Kogekar, BSc(Econ) *Lond.* 48
Teachers

POONA, *Law College*, Poona 4 (tel. 2110)
(1924) LLB, LL.M. Principal—G. V. Pandit,
MA LL.M. 7 Teachers.

POONA, *M. E. Society's College of Arts and
Science*, Poona 4 (tel.: 2411) (1945) IA,
BSc(gen) Principal—M. N. Bhat, MA LT.
14 Teachers.

POONA, *Nowrojee Wadia College*, Poona 1
(tel. 2924) (1932) BA(gen & spec.), BSc(gen.),
TD Principal—P. R. Damle, MA 31 Teachers.

POONA, *Shri Shahu Maharaj Mahavidyalaya*,
Poona 2 (1960). PD Principal—M. P. Man-
gudkar, MA PhD

POONA, *Sri Parashurambhau College*, Poona 2
(tel. 2998) (1916) BA(gen & spec.), BSc(gen.)
Principal—S. G. Hulyalkar, BA *Bom.*, MA *Lond*
37 Teachers

POONA, *Tilak College of Education*, Poona 2
(tel. 3603) (1941). BT, MEd, PhD (in educn).
Principal—N. V. Patankar, MA MEd. 16
Teachers.

AFFILIATED COLLEGES

AHMEDNAGAR, *Ahmednagar College* (1947)
BA(gen & spec), BSc(gen.), MA Principal—
T. Barnabas, MSc. 20 Teachers.

ALIBAG, *J. S. M. College* (1961) PD Principal
—R. T. Kulkarni, MSc. 11 Teachers.

AMALNER, *Pratap College* (1945) BA(gen. &
spec.), BSc(gen.), MA, MSc(res. in bot). Prin-
cipal—K. Z. Lad, MSc. 18 Teachers

ARJUNNAGAR, *Janta Mahavidyalaya* (1961).
PD. Principal—S. A. Parandekar, MSc. 9
Teachers.

BARSI, *Shri Shri Mahavidyalaya* (1960).
PD. Principal—S. D. Bhawe, MSc. 12 Teachers

CHALISGAON, *Arts, Science & Commerce College*
(1961) PD Principal—M. V. Phatak, MA
10 Teachers

DHULIA, *Arts & Science College* (1956) IA
Principal—M. Y. Vaidya, MA LLB. 24 Teachers.

DHULIA, *College of Agriculture* (1960) ISc
(Agr) Principal—G. K. Phadatar, BA MS
Corn 21 Teachers.

- DHULIA, *College of Education* (1961) BE
Principal—R M Maithae, MA MEd 6
Teachers.
- FAIZAPUR, *Faizapur Arts & Science College*
(1961) PD Principal—Thakur, MSc 9
Teachers
- JALGAON, *Moohye Jaitha Arts & Science College*
(1945) BA(gen & spec.), BSc(gen.), MA Prin-
cipal—Y S Mahajan, BSc(Econ) Lond 23
Teachers
- KARAD, *College of Engineering* (1960) BE
Principal—G V Sapre, BE 8 Teachers
- KARAD, *Sadguru Gadage Maharaj College*
(1954). IA. Principal—S. R. Shinde, MA 7
Teachers.
- KOLHAPUR, *College of Commerce* (1957) ICom.
Principal—B S Bhanage, MA 9 Teachers
- KOLHAPUR, *Gopal Krishna Gokhale College*
(1950) IA Principal—B H. Khardekar, MA
16 Teachers
- KOLHAPUR, *Rajaram College* (1880) BA(gen
& spec), BSc(gen.), MA, MSc, PhD Principal—
B R Dhekney, MA PhD 45 Teachers
- KOLHAPUR, *Shahaji Law College* (1933) LLB,
LLM Principal—S V Apte, MA LLB 7
Teachers
- KOLHAPUR, *Shree Maharani Tarabai Teachers'*
College (1934) BT. Principal—N R Parasnis,
MA BT PhD 9 Teachers.
- MAHAD, *Dr Babasaheb Ambedkar College* (1961)
PD Principal—R B Joshi, MA 9 Teachers
- NASEK, *B Y K Commerce College* (1957)
Principal—M S Gosavi, MCom LLB 13
Teachers
- NASIK, *Hansraj Prags Thackersey College*
(1944) BA(gen & spec), BSc(gen.), MA, PhD.
Principal—S G Puranik, MA 22 Teachers
- PANDHARPUR, *Pandharpur College* (1960) PD.
Principal—B A Chaugule, MA 11 Teachers
- PHALTAN, *Mudhoji College* (1957). Principal—
D H Oke, MA LLB 14 Teachers
- RATNAGIRI, *R P Gogate College* (1945) BA
(gen. & spec.), BSc(gen.), TD Principal—V. K
Bavadekar, MSc 19 Teachers.
- SANGAMNER, *Sangamner College* (1961) PD
Principal—M. B. Kaundinya, MA 8 Teachers
- SANGLI, *Chintamanrao College of Commerce*
(1960) PD Principal—D A Dabholkar, MA
12 Teachers
- SANGLI, *College of Education* (1961) BE
Principal—G S Deshpande, MA BT 6
Teachers
- SANGLI, *New Engineering College* (1947).
BE(Civil) Principal—V K Kelkar, BE, MIE
(India) 25 Teachers
- SANGLI, *Sangh College* (1960) PD Principal
—V P Damle, MSc. 10 Teachers
- SANGLI, *Willingdon College* (1919). BA(gen &
spec), MA, BSc(gen.), MSc (in maths.). Prin-
cipal—N. V. Vaidya, MA 20 Teachers.
- SATARA, *Chhatrapati Shiwaji College* (1947).
IA, ISc, TD Principal—P G. Patil, MA. 11
Teachers
- SATARA, *College of Education* (1955) BT
Principal—A B Magdum, MA MEd 8
Teachers
- SAWANTWADI, *Shri Pancham Khenray Maha-
vidyalaya* (1961) PD Principal—D G. Kop-
arkar, MA PhD 9 Teachers
- SHOLAPUR, *Dayanand College* (1940) BA
(gen & spec), BSc, MA, PhD. Principal—
Bhagavandas, MA 36 Teachers.
- SHOLAPUR, *Dayanand College of Commerce*
(1952) BCom Principal—T. B. Narsim-
hachan, MA 13 Teachers
- SHOLAPUR, *Dayanand College of Education*
(1955). BT Principal—K. S. Mardikar, MA
PhD MEd 15 Teachers.
- SHOLAPUR, *Sangameshtwar College* (1953) PD,
BA, BSc Principal—K. Bhogishayan, MA. 13
Teachers
- SHIRIRAMPUR, *Narayanrao Borawake College*
(1960) PD Principal—S K Unune, MA 12
Teachers
- ULHASNAGAR, *Uthmagar Girls' College* (1961).
PD Principal—7 Teachers
- URAN-ISLAMPUR, *Kamru Bhaurao Patil Col-
lege* (1961) PD Principal—S B Chavan, BSc
(Econ) Lond 5 Teachers.
- VENGURLA, *Vengurla Arts & Commerce College*
(1961) PD Principal—B H Khardekar, BA
Camb, LLB. 5 Teachers.

CONSTITUENT RECOGNIZED INSTITUTIONS

(for postgraduate research)

- POONA, *Armed Forces Medical College*, Poona 1.
DPH, MD in med, MD in pathol., MS
Commandant—Major-General C. C. Kapila, OBE,
MB BS Rangoon, DMRE Camb., MRCP.
- POONA, *Bhandarkar Oriental Research Institute*,
Poona 4 (tel. 2336) (1917). Prepares 100
students for PhD in Sansk Dir—C. R. Devad-
har, MA 2 Teachers
- POONA, *Deccan College Postgraduate & Re-
search Institute*, Poona 6 (tel. 2145) (1934).

Prepares res students for PhD in Sansk, linguistics, and Indian culture, Maratha hist, archaeol, sociol, and anthropol Dir—H D Sankalia, MA PhD 9 Teachers

POONA, Gokhale Institute of Politics & Economics, Poona 4 (tel. 3729) (1930) Prepares res students for PhD in econ Dir—D R Gadgil, MA MLitt Camb. 4 Teachers.

RECOGNIZED INSTITUTION

POONA, Gargoti G K Institute of Rural Education (1958) Prepares res students for MEd and

PhD in educn. (with sp reference to rural problems) Dir—Mrs. Chitra Nauk, PhD 4 Teachers

GENERAL INFORMATION

In 1924, the Setalvad Cttee. on University Reforms, which recommended the establishment of regional univs in the province of Bombay, pointed out the suitability of Poona as such a univ centre. It was not until 1942, however, that the provincial govt appointed a cttee to report on the form, constitution, jurisdiction and financial implications of a univ for Maharashtra. Although the cttee submitted its report in the following year, difficulties created by the second world war prevented its implementation and it was not until 1948 that the Univ. of Poona was established, it occupied the old Government House, at Kirkee, which was provided by the Bombay govt. Though situated in Poona, the univ's activities are spread over the 12 districts inhabited by the Marathi-speaking people. It is intended, as the report of the cttee which framed its scheme observed, that the 'univ. will keep in view the special needs, interests and traditions of Maharashtra and its people without losing sight of its essential character as a university, i.e. a seat of universal learning which recognizes no frontiers except those of the human mind itself'.

The univ is neither a purely affiliating nor a purely unitary and teaching univ. It combines the features of both these types. It aims at creating for the Poona area a central teaching organization beyond the inter stage, and the whole of the postgrad teaching and res work in the entire univ. area is conducted under its direct control. But up to the inter stage in the Poona area and the grad stage in outside places, instruction continues to be given by the constituent and affiliated colleges subject only to the general supervision of the univ. It is not contemplated that all the staff, equipment and bldgs of such post-inter colls. in Poona will belong to the univ, which will, however, be able to draw freely on these resources. The univ's library, labs and full-time teaching staff are used mainly for postgrad. teaching and res. in selected subjects.

CONSTITUTION. Among the distinctive features of the constitution of the univ is its provision for the widest representation of the various elements in the life of the region in the composition of the court, the general legislative and deliberative univ body. Linking academic and non-academic sides is the executive council, which possesses complete control over the finances and routine

working of the univ. Apart from its general direction of policy, the court has no control over the day-to-day business of the univ.

INCOME (1959-60) Recurring. Rs 4,745,618 (incl govt grants, 24.8 per cent., exam fees, 29 per cent., tuition fees, 31 per cent.) Non-recurring grants. Rs 1,709,262

FACULTIES AND DEANS See p 611

LIBRARIES Univ libr approx 77,157 vols. Librs of affiliated colls and institutions. total of approx. 624,000 vols

ADMISSION. The univ, which does not hold an entrance exam of its own, admits students who have passed the matric or entrance exam. of any other statutory univ in the state of Bombay. The univ. conducts the pre-degree exam which precedes the 3-yr integrated degree course leading to the BA, BCom and BSc exams. There is no discrimination on the ground of sex, race, creed, class or religious or political belief.

FIRST DEGREES Yrs of study after SSC. 4 yrs —BA (general), BA (spec), BSc (general), BCom, BSc(Agr), 5 yrs —BSc (hons), BE (civil, electr, mech, metall, telecommn), 6½ yrs —BAM&S (Ayurvedic med), 6½ yrs —MB BS

Note—The univ has now adopted the 3-yr integrated degree course leading to the BA, BCom and BSc degrees

HIGHER DEGREES 1 yr —BT, 2 yrs —MA, MSc, MSc(Agr), MCom, 3 yrs —MEd (only 1 yr if taken after BT), MD, MS, 6 yrs (2 yrs after 1st degree), LLB, 4 yrs —LLM. Also PhD, 2 yrs. after MA or MSc, DSc, 2 yrs after PhD, DLitt

EXTERNAL DEGREES BA(External), MA(External), MSc(External) (maths. only), BCom (External), MCom(External), LLM(External). Gainfully employed persons, and married women, residing within the univ. area, are eligible to appear for these exams externally, i.e. without keeping terms at any of the affiliated colls. The duration of the degree course is 6 yrs. from the entrance exam. as compared with 4 yrs for regular internal students. A candidate appearing for the 3-yr integrated degree course externally can complete the course within 6 yrs. incl the yr of pre-degree exam. He qualifies for the master's degree after a further period of 3 yrs. For any of these

6 exams, students have to pay a registration fee of Rs 16 in the yr. previous to yr of exam

DIPLOMAS 1 yr —TD, libr sci, French (lower), German (lower); 2 yrs —French (higher), German (higher), music, oriental learning, 2 yrs. postgrad —DPH, DCP (clin pathol)

CERTIFICATES 1 yr —French, German

POSTGRADUATE RESEARCH While the univ depts (see above) are mainly meant for postgrad study and res, the three constituent recognized institutions (see above) also undertake postgrad. res. through their staff as well as through postgrad students registered with the univ and working in those institutions. The subjects of res at the institutions are as follows Bhandarkar Oriental Res. Inst —anc Sanskrit and Prakrit lit, Mahabharat epic and anc Indian culture Deccan Coll Postgrad and Res Inst —Sansk, compilation of Sansk dictionary, sociol, anthropol, Arabic, Maratha hist, anc Indian hist and culture Gokhale Inst. of Politics and Economics —econ, pol and stats

FEES Fees charged up to first graduation are about Rs 100 per term (extra lab fees for sci students) Postgrad students Rs 125 per term for arts and Rs 150 per term for sci Besides these tuition fees, students have to pay about Rs 25 to Rs 30 p a for gymnasium, library and other facilities

ACADEMIC YEAR 2 terms June to mid-Oct., Nov to mid-March (med & Ayurvedic med, mid-April)

THE USUAL LANGUAGE OF INSTRUCTION is English, except in mod Indian lang classes, where the lang. concerned is used Steps are being taken to replace English by Marathi

EXTRA-MURAL WORK. The bd of extra-mural studies was set up in 1950. Lectures on topics of general interest are frequently arranged under the bd's auspices, and profs. of the constituent and affiliated colls and other experts are invited to deliver lectures which are open to the general public.

RESIDENCE The univ maintains a hostel which has accomm for 126 male postgrad students. There is a sp hostel for women students, accomm 60. The affiliated colls have their own hostels, accommodating a total of 3700 men and women students

UNIVERSITY PRESS The univ. maintains a small press

PUBLICATIONS *Handbook* (4 Pts. Pts I, III and IV annually, Pt II quinquennially), *Annual Report*, N C Kelkar memorial lecture series, annual vol, Dr P. D Gunc lecture series, 1 vol every 5 yrs, Ashtekar Vedic lecture series, 1 vol every 4 yrs

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	23,828	—
Women	4,135	—
Total	27,963	—

Distribution by Faculties Agric, 523, arts, sci., soc scis, 24,500, Ayurveda, 342, engin, 1454, law, 436, med, 708 Total 27,963 In addition, there were 8422 external students

Included in the figures above are —

Intermediate or Pre-University students, 15,799

Postgraduate students, 1254.

New admissions, 10,658.

Students from other countries, 162 (Countries from which largest numbers came East Africa (Kenya, Tanganyika, Uganda), 88, Ceylon, 34)

DEGREES AWARDED (1960) PhD (all facs), 21, MA, 119; MA (ext), 51; BA (gen & spec), 976, BA (gen & spec ext.), 296, BA (hons), 11; BA (under o 156 B, 1 e to those awarded BA after previously graduating BCom), 33; MCom, 5; MCom (ext), 1; MEd, 40, BCom, 251, BCom (ext), 15, BEd (BT), 254, MSc, 131, MSc (maths) (ext), 5, BSc (hons), 111; BSc (gen), 465, LLM, 5; LLB, 122, MD, 8, MS, 4, MSc (med), 1, MB BS, 102, MSc(Eng), 16, ME, 2, BE (civil), 161, BE (mech), 75, BE (electr), 41, BE (mech & electr), 1, BE (met), 12, BE (telecom), 8, MSc(Agric), 13, BSc (Agric), 69, BAm&S, 15

DIPLOMAS AWARDED (1960) TD, 86, music, 2, lower dipl in French & German, 6, DPH, 3, DipLab, 19

CERTIFICATES AWARDED (1960) French & German, 57

UNIVERSITY OF RAJASTHAN*

Founded 1947

Postal Address · Gandhinagar, Jaipur, Rajasthan, India

Cables and Telegrams University, Jaipur

Telephones : Jaipur 4135, 2183, 2596, 3168

VISITOR—THE PRESIDENT OF THE REPUBLIC OF INDIA (*ex officio*)

CHANCELLOR—THE GOVERNOR OF RAJASTHAN (*ex officio*)

VICE-CHANCELLOR—M. S. MEHTA, MA LLB PhD

REGISTRAR—K. L. VARMA, MA

DEPUTY REGISTRAR (GENERAL)—C. L. SINGHAL, BCom

DEPUTY REGISTRAR (DEVELOPMENT AND ADMINISTRATION)—K. P. GOVIL, BCom LLB

HON. LIBRARIAN—D. L. GUPTA, MA BCom PhD Lond

UNIVERSITY TEACHING STAFF

Botany

Subramanian, C. V., MA PhD DSc
Tiagi, B., MSc PhD
Narayana, H. S., MSc PhD
Singh, Dalbir, MSc PhD

Prof
Reader
Lectr
Lectr

Chemistry

Gaur, J. N., MSc PhD
Sogani, N. C., MSc PhD
Deorha, D. S., MSc PhD
Kulshrestha, N. K., MSc PhD

Reader
Lectr
Lectr
Lectr

Economics and Public Administration

Mathur, M. V., MA BCom *Allid*,
MPA *Harv.* (on leave) Prof
Josh, J. M., MA PhD Lectr
Bhalla, G. S., MA (on leave) Lectr
Narula, D. D., MA Lectr
Viswanathiah, K. V., MA MPA *Syr*
(on leave) Lectr
Singh, V. M., MA PhD Lectr
Vaish, M. C. Lectr
Mathu, Miss J. K. Lectr

French

Roy, Mrs J. M. Lectr

Geology

Rode, K. P., MSc PhD *Zitr.* Prof
Chandra, S., MSc Chemical Analyst
Shukla, R. T., MSc Temp. Lectr.
Pandey, M. K., MSc Lectr
Choudhary, M. W., MSc PhD X-Ray Analyst

German

Suga, Mrs Ruth, DPhil Lectr

History

Sharma, M. L., MA DLitt Prof
Raghuvanshi, V. P. S., MA DPhil Reader
Asopa, J. N., MA LLB Lectr
Choudhary, P. S., MA PhD Lectr

Law

Sharma, G. S., MA LLM JSD Yale Principal
Varma, R. N., MA LLM PhD Reader
Saxena, I. C., MA LLM Lectr
Singh, B. S., BA LLM Lectr
Satgur Charan, BA LLM Lectr
Sharma, N. R., BA LLM Temp Lectr

Library Science

Mathur, S. N., BA Asst Librarian
Shipstone, G. L., MA Lectr
Kumari, Mrs Santosh, MA Lectr

Mathematics

Patni, G. C., MSc PhD Reader
Sharma, A., MA PhD Reader
Gupta, M. C., MSc PhD Lectr

Philosophy

Ray, P. T., MA PhD (on leave) Prof
Date, V. H., MA PhD Lectr
Sharma, C. M., MA Lectr
Syed, M. A., MA Lectr

Physical Education

Mukerji, J. B. Du

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Physics

Soonawala, M F., MSc
Bhandari, R C, MSc PhD
Nigam, A N., MSc

Zoology

Prof Ramaswami, L S, DSc, FNI
Lectr Prakash, I., MSc PhD
Lectr Kapoor, A S, MSc DPhil

Prof
Lectr
Lectr

ADMINISTRATIVE AND OTHER STAFF

Asst Registrar (General), L P Shrivastava.
Asst Registrar (Exams & Secrecy), V D Qamra,
BA Asst Registrar (Accounts & Finance), R C

Bhargava, BA Planning Sec, M Mathur, MA
BT

AFFILIATED INSTITUTIONS

[Pre-Univ after the name of a coll means that Pre-Univ courses are provided there, BA, BSc, etc, that courses are provided there for BA, BSc, etc]

AJMER, *Dayanand College* Pre-Univ (arts, comm, sci), BA, BCom, MA, MCom, BSc(Ag) Principal—D. Vable, MA LLB 32 other Teachers.

AJMER, *Gout College* Pre-Univ (arts, comm), BA, BSc, BCom, MA, MSc, MCom, LLB, PhD Principal—B Sen, MA 83 other Teachers

AJMER, *Gout Teachers' College* BEd Principal—R K Kaul, MA BSc BT 23 other Teachers

AJMER, *Savitri Girls' College* Pre-Vet (arts, comm), BA Principal—Miss Mukta Bhaty, MA 15 other Teachers

AJMER, *Sophia Girls' College* BA Principal—Sister Jovita, MA BT 7 other Teachers

ALWAR, *Raj Rishi College* Pre-Univ (arts, comm, sci), TDC (arts, sci), BA, BSc, BCom Principal—R L Sawal, MA 59 other Teachers

BANSWARA, *Gout College* Pre-Univ. (arts, comm, sci), BA Principal—R K Kaushik, MSc 12 other Teachers

BEAWAR, *S D Gout College* Pre-Univ (arts, comm, sci), BA, BSc, BCom, MA, MCom Principal—F Singh, BA DLitt. 35 other Teachers

BHARATPUR, *M S Y College* Pre-Univ (arts, comm, sci), BA, BSc, BCom Principal—S Swaroop, MA MSc 41 other Teachers

BHILWARA, *Maharana College* Pre-Univ (arts, comm, sci), BA, BCom Principal—R S Gupta, MA 16 other Teachers.

BIKANER, *B J S R Yajn College* Pre-Univ. (arts, comm, sci), BCom Offg Principal—J C Ghosh, MA 25 other Teachers

BIKANER, *Dungar College* Pre-Univ. (arts, sci), BA, BSc, MA, MSc, LLB Principal—P C Jain, MA 47 other Teachers.

BIKANER, *Maharam Sudeshan College for Women* Pre-Univ (arts, sci), BA Principal—Mrs S Lata Agarwal, MA PhD 20 other Teachers

BIKANER, *Medical College* MB BS Pt I, MSc
X 2

(anat, med, physiol) Principal—S. C. Mehta, FRCS 11 other Teachers

BIKANER, *Rajasthan College of Veterinary Science & Animal Husbandry* BVSc&AH Principal—Mohan Singh, MS PhD, 30 other Teachers

BIKANER, *Shri Yajn College* Pre-Univ. (comm), BCom Principal—G P. Sayal, MCom LLB. 7 other Teachers

BIKANER, *Teachers' Training College* BEd. Principal—B G Tewari, MA BT 16 other Teachers

BUNDI, *Gout College* Pre-Univ (arts, comm, sci), BA, BCom Principal—M L Garg, MSc 16 other Teachers

CHIRAWA, *Chirawa College* Pre-Univ (arts, comm, sci), BA, BCom Principal—A B. Saxena, MA 17 other Teachers

CHURU, *Lohia College* Pre-Univ (arts, comm, sci), BA, BCom, BSc Principal—M S Rathore, MSc 31 other Teachers.

DAUSA, *Gout Intermediate College* Pre-Univ. (arts, comm.), BA, BCom Principal—K. L. Gupta, MA 10 other Teachers

DIDWANA, *Bangur College* Pre-Univ. (arts, comm), BA, BCom Principal—M L Gupta, MSc PhD 18 other Teachers

FALNA, *S P U College* Pre-Univ (arts, comm), BA, BCom Principal—S L Sharma, MA 14 other Teachers

JAIPUR, *Agarwal College*. Pre-Univ (arts, comm.), BA, BCom. Offg Principal—L. P. Varsh, MA. 13 other Teachers.

JAIPUR (Banasthali), *Banasthali Vidyapeeth*. Pre-Univ (arts), BA Principal—S B Banerjee, MA 18 other Teachers

JAIPUR, *Commerce College*. Pre-Univ (comm.), BCom, MCom, PhD. Principal—B D Bhargava, MA BCom 34 other Teachers.

JAIPUR, *Maharaja's College* Pre-Univ (arts, sci), BA, BSc, MA, MSc. Principal—R S. Kapur, BA. 101 other Teachers.

JAIPUR, *Maharani's College* Pre-Univ (arts, sci), BA, MA, BSc Principal—Mrs Savitri Bharatiya, MA. 49 other Teachers

JAIPUR, *Rajasthan College* Pre-Univ (arts, sci), BA Principal—A Hughes, MA 108 other Teachers

JAIPUR, *Sawai Mansingh Medical College*. MB BS, MD, MS, MSc(Med) Principal—R M Kasliwal, MD, MRCP 108 other Teachers

JAIPUR, *Seth Rameshwar Lal Saharia College*, Kaladera Pre-Univ (arts, comm), BA, BCom. Principal—L R Shah, MCom MA 11 other Teachers

JAIPUR, *S S G Pareek College* Pre-Univ (arts, comm), BA Principal—G L Purohit, MA BT 9 other Teachers

JAIPUR, *S S Jan Subodh College* Pre-Univ (sci) Principal—B C Vaidya, MA BT. 5 other Teachers

JHALAWAR, *Rajendra College* Pre-Univ (arts, sci), BA. Principal—S. P Tejpal, MA LLB 16 other Teachers

JRUNTHUNU, *Seth Motilal College* BA, BCom Principal—N L Gupta, MA BT 16 other Teachers

JOHNER, *S K N Govt. College of Agriculture* BSc(Ag) Principal—N Prasad, MSc PhD 22 other Teachers.

JODHPUR, *Jaswant College* Pre-Univ (sci), BSc, MSc, LLB Principal—S. P Kaushik, MSc PhD 69 other Teachers.

JODHPUR, *M B M Engineering College* BE (civil, electr, mech., mining engin) Principal—V. G Garde, MSc(Eng) 74 other Teachers

JODHPUR, *Rajmahal Gals' College* Pre-Univ (arts, sci), BA Principal—Miss Rama S. I Padmini, MA MSc Lond 18 other Teachers

JODHPUR, *Shri Maharaj Kumar College*. Pre-Univ (arts, comm), BA, BCom, MA, MCom Principal—M P Mathur, MA PhD 62 other Teachers

KISHANGARH, *Govt College* Pre-Univ (arts, comm, sci), BA, BCom Principal—R P Bhargava, MA BCom 19 other Teachers

KOTA, *Govt College* Pre-Univ. (arts, comm, sci), BA, BSc, MSc, BCom, MA, LLB Offg Principal—R P Singh, MA DLitt 69 other Teachers

KOTA, *Maharani Gals' College* Pre-Univ (arts, sci), BA Principal—R P Shastri, MA PhD. 13 other Teachers

MUKUNDGARH, *Shweta Sadan College* Pre-Univ (arts, comm), BA, BCom Principal—P C Sahai, MA BT. 9 other Teachers

NAWALGARH, *S G B Podar College* Pre-Univ (arts, comm, sci), BCom, MCom, BA, BSc Principal—C B Gupta, MA MCom 26 other Teachers.

PILANI, *Birla Arts College*. Pre-Univ (arts),

BA, MA Principal—K L Sahai, MA PhD, 20 other Teachers.

PILANI, *Birla College of Science & Commerce* Pre-Univ (comm., sci), BSc, BCom, MSc, MCom, BPharm, IPharm Principal—S M Mitra, DSc Dacca 65 other Teachers

PILANI, *Birla Engineering College* BE (Mech, Electr & Telecomm), BE (Civil), ME/MSc (Electronics) Principal—V Lakshminarayanan, BE. 68 other Teachers

SARDARSHAH, *Basic Teachers' Training College* BEd (Basic Educa), MEd Principal—M C Singhal, MA MEd PhD 18 other Teachers

SARDARSHAH, *Govt College* Pre-Univ. (arts, comm), BA, BCom Principal—M L Sahai, MA 8 other Teachers

SIKAR, *S K College* Pre-Univ (arts, sci.), BA Principal—R S Tripathi, MA 19 other Teachers

SIROHI, *Govt College* Pre-Univ (arts, comm, sci), BA Principal—S S Dube, MSc 18 other Teachers

SRI GANGANAGAR, *Govt College* Pre-Univ (arts, sci), BA, BSc Principal—P Sinha, MSc 22 other Teachers

SRI GANGANAGAR, *Govt Girls' College* Pre-Univ., BA Principal—Mrs B Kohli, MA 19 other Teachers

SRI GANGANAGAR, *Seth G L Bihani S D College* Pre-Univ (comm), BCom. Principal—T. C Sharma, MA BCom 5 other Teachers

SRI GANGANAGAR, *S G N Khalsa College* Pre-Univ. (sci), BSc Principal—S S Sandhu, MA BT. 16 other Teachers

TONK, *Govt College*. Pre-Univ (arts, comm.), BA, BCom Principal—S S Singh, MA. 12 other Teachers

UDAIPUR, *Govt Gals' College*. Pre-Univ (arts, sci), BA, BSc Principal—Mrs Indira Shekhar, MA BT 16 other Teachers

UDAIPUR, *Maharana Bhupal College* Pre-Univ (arts, comm, sci), BA, BSc, BCom, MA, MSc, MCom, LLB Principal—V. V John, BA Oson 75 other Teachers

UDAIPUR, *Rajasthan College of Agriculture* BSc(Ag) Principal—A Rathore, MSc PhD 37 other Teachers

UDAIPUR, *Rajasthan Mahila Vidyalaya* Pre-Univ (arts, sci), BA Offg Principal—P. B Menon, MA BSc 18 other Teachers

UDAIPUR, *School of Social Work* MSW Offg Principal—H L Upadhyay, BSc MA MS PhD 4 other Teachers

UDAIPUR, *Srinamdevi College* (Night Degree College), Rajasthan Vidyapeeth BA Principal—K Jaisani, MA 10 other Teachers

UDAIPUR, *Vedya Bhawan G.R Teachers' College* BEd, MEd, Offg. Principal—P. L. Shrivast, MSc BT 16 other Teachers

GENERAL INFORMATION

Although the idea of a univ at Jaipur can be traced to the 1920s, it was not till Jan 8, 1947, that the act for a federal univ for Rajputana was promulgated. The univ's jurisdiction extends over Rajasthan, the ring-shaped region comprising the whole of Rajputana incl Ajmer-Merwara. It is a teaching and affiliating univ.

The univ. now controls univ educn. only. With the estab. of the bd of secondary educn in the state of Rajasthan with effect from July 1957, the control of high sch and inter. educn has been transferred to that bd.

CONSTITUTION The main authorities are senate, syndicate, academic council, facs., bds of studies and bd of inspection, etc. Senate is the senior body. No statute of the univ can be operative unless sanctioned by senate, and ordinances are subject to its approval. The syndicate is the executive body which controls day-to-day admin. Bds of studies report to the facs, facs to the academic council and academic council to the syndicate. All other bodies report direct to syndicate.

INCOME (1959-60) Rs 2,845,284 (exam and other fees, 28.6 per cent, state govt grant, 22.5 per cent, grant from Univ Grants Commission and govt of India, 35.6 per cent, tuition and other fees (univ depts), 8.6 per cent, misc., 4.7 per cent).

FACULTIES AND DEANS Arts, Principal B Sen, comm., Principal B D Bhargava, educn, Principal P L Shrivastava, engin., Principal V Lakshminarayana, law, Principal G S Sharma, med, phar and vet sci, Principal S C. Mehta, sci., Prof L S Ramaswami.

UNIVERSITY PRECINCT The univ with its depts and library, hitherto housed in rented premises, has moved to newly constructed bldgs of its own in Gandhinagar, Jaipur. The depts of chem, econ, hist., law, maths, philos and phys are located there, the dept of geol at Udaipur, c/o M.B. Coll., and the depts of bot and zool at Jodhpur.

Univ postgrad classes in Engl, Hindi, pol sci, Sanskrit, sociol, stats began in July 1961.

LIBRARY 53,303 vols

ADMISSION. Min requirement for entry to inter phar and pre-univ is high sch. or exam declared equivalent. For requirements for entry to degree courses, see below.

FIRST DEGREES. BA, 2 yrs after inter. or 3 yrs. after pre-univ or equivalent, BSc, 2 yrs after ISC or 3 yrs after pre-univ or equivalent, BSc(Ag), 3 yrs after ISC(Ag) or equivalent, BCom, 2 yrs. after ICom or equivalent or 3 yrs. after pre-univ. or equivalent, BPharm, 3 yrs, with 90 days' practical trg, after IPharm or ISC (with phys., chem, maths) or equivalent; BE (civil, electr., mech, mining, telecommn.), 4 yrs., with 6 mos' practical trg., after ISC, or 5 yrs.

after pre-univ. or equivalent (with phys., chem, maths.); BVSc&AH, 4 yrs after ISC (biol.), MB BS, 5½ yrs, incl. 6 mos' internship, after ISC (with phys, chem, biol) No hon. degrees are awarded.

Note—The univ introduced 3-yr. degree and pre-univ. courses in the facs of arts, comm. & sci. in 1958 and 1959 respectively.

HIGHER DEGREES BEd, 1 yr after 1st degree; LLB, 2 yrs after bachelor's degree. Courses of instruct for MA, MOL, MSW, 2 yrs. after bachelor's degree; MSc, MCom, ME and MSc (Tech-Electronics), MD, MS, LLM, 2 yrs after corresp. bachelor's degree, MEd, 1 yr after BEd, MSc(Med), 2 yrs. after MB BS. Facilities for res. in univ depts of econ., geol., hist., philos. PhD, 2 yrs' res (and thesis) after postgrad degree, DLitt, DSc, 2 yrs after PhD, LLD, 2 yrs after LLM. The DLitt, DSc and LLD may also be conferred as honorary degrees. All degrees are open to grads. of other univs.

STUDY LEAVE, which is available to univ teachers who have been on the staff for 5 or more yrs., is granted (for 1 yr or, exceptionally, 2 yrs) to an individual once only. An undertaking to serve the univ for at least 5 yrs on return is required. If the teacher has a scholarship or other financial assistance he receives a monthly allowance of not more than half his salary, if he has no scholp. or other financial assistance he receives his full salary plus a monthly allowance of not more than a quarter of his salary.

FEES Tuition fees MA or LLB, Rs 200 p a, LLM and res, Rs 250 p a. Registration fee for res, Rs. 50. Women are charged half fee. Candidates belonging to scheduled caste are exempted from payment of tuition fee.

ACADEMIC YEAR July to April, 3 terms. Term dates (approx) July 7 to Sept 30, Oct 15 to Dec 22; Jan. 2 to May 6.

USUAL LANGUAGES OF INSTRUCTION Hindi and English.

'OPEN' POSTGRADUATE AWARDS Univ awards 6 scholps, value Rs 150 p m, tenable for 2 yrs, for res in various subjects. Res scholps, value Rs 150 p m, are also awarded in the univ teaching depts 2 each in bot, chem, geol., hist, maths, philos, phys, zool and 1 in econ.

PRIVATE CANDIDATES may appear at univ exams. without attending lectures in a recog instn of the univ. Such candidates are women, teachers or libranians in recog instns, or inspecting officers of the dept of educn.

EXTERNAL STUDENTS Provision exists for candidates 'in service' to undertake higher educn. Such candidates enrol to attend evg. classes, which certain degree colls are authorized to run. They are thus intermediate in status between 'private' candidates and full-time

scholars. This facility has enabled those who are gainfully employed and cannot for valid reasons join a coll. as regular students to appear at the univ. exams.

EXTRA-MURAL WORK AND DELEGATIONS. Extension lectures by members of the univ are delivered at various centres, and are publd both in Engl and Hindi.

NATIONAL CADET CORPS TRAINING. Five bns., at Jaipur, Ajmer, Jodhpur, Udaipur and Bikaner, 6 indep cos., at Alwar, Bharatpur, Kota, Churu, Pilani and Sri Ganganagar; 3 units: 1 air squadron at Jodhpur & Jaipur, 1 naval unit at

Udaipur, 4 tech. units medical co at Jaipur, artillery battery N C C at Pilani, engin. platoon N C C. at Pilani and Jodhpur. The univ. contributes Rs 11,662 annually for amenities of N C C. cadets

PUBLICATIONS. Text-books on Hindi, Engl., gen. sci. and soc. studies for the high sch. classes. Text-books on gen. sci and soc. studies for inter. arts, inter sci., inter. comm. and gen. knowledge, *Handbook* (Pt I, univ. authorities, as. 7, Pt. II, Statutes & Ordinances, Rs. 3), *Univ. Studies and Extension Lectures*, text-books and fac syllabuses, *List of institutions*

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

	<i>Full-Time</i>	<i>Part-Time</i>
Men	18,506	80
Women	2,580	1
Total	21,086	81

Distribution by Faculties. *Arts*, 8429; *comm*, 4176; *educn*, 465; *engin*, 1105, *jr DC*, 78, *law*, 707, *med*, *pharmaceutics*, 241, *sci.*, 5679; *vet. sci.*, 287 Total 21,167

Included in the figures above are:—

Postgraduate students, 2409

New admissions, 12,515

Students from other countries, 9

DEGREES AWARDED (1959-60) MA, 709, MOL, 5, BA, 1726, MSc, 186, BSc, 401, BSc(Ag), 58, MCom, 155, BCom, 591, MEd, 22; BEd, 404, LL.M., 5, LL.B., 268, BE, 160, MB BS, 66, MS, 9; ME/MSc(Tech-Electronics), 4, MD, 5; MSc(Med), 5, BPharm, 6, BVSc&AH, 80, PhD arts, 9, PhD sci, 6, PhD comm, 1, PhD med, 1.

UNIVERSITY OF ROORKEE*

Founded in 1847 as Thomason College, inaugurated
as a University in 1949

Postal Address : Roorkee, Uttar Pradesh, India

Telegrams . University, Roorkee

Telephone . Roorkee 5

CHANCELLOR—RAJYAPAL SRI Dr. B. RAMAKRISHNA RAO

VICE-CHANCELLOR—G. PANDE, CE, MIE(India)

PRO-VICE-CHANCELLOR—K. N. KATHPALIA, BA CE

REGISTRAR—S. S. SHARMA, MA

DEAN OF STUDENTS—S. R. SINGH, BScEngin Brist.

TEACHING STAFF

Applied Science

Prasad, C, MSc *Alld*, DPhil *Oxon*
(Maths) Reader-in-Charge
Mital, K. V, MSc (Maths) Reader
Mittal, R. S, DIC, MSc PhD *Lond.*
(Geol & Geophys) Reader-in-Charge
Singh, K. K, MSc PhD *Kharagpur*

(Geol.) Reader
Agarwal, B. R, DIC, MSc PhD *Lond*
(Chem.) Reader-in-Charge
Agarwal, B. K, MSc *Delhi*, PhD *Delhi* &
Lond (Phys.) Reader-in-Charge
Krishna, B., MSc *Agra* (Maths) Lectr
Kumar, V, MSc *Agra* (Maths) Lectr
Pande, N. N, MSc *Agra* (Maths) Lectr
Srivastava, M. M, MSc *Alld* (Maths) Lectr
Srivastava, L. S, BSc MTech *Kharagpur*

(Geol.) Lectr.
Chaturvedi, R. S, MSc (Geol) Lectr
Dawe, V. K. S, MSc PhD (Geol) Lectr
Bahadur, S, MSc (Geol) Lectr
Goel, R. G, MSc (Chem) Lectr
Mukherjee, S. K, MSc PhD *Luck*

(Chem) Lectr
Tripathi, K. K, MSc (Chem) Lectr
Gupta, S. N, MSc *Agra* (Phys.) Lectr
Singh, B. P, MSc PhD *Alig* (Phys) Lectr
Murthy, T. V. S., MSc PhD (Phys) Lectr
Singh, Yogeshwar, MSc (Phys.) Lectr
Prasad, B, MSc Sr. Instr
Gupta, S. K, BSc Instr.
Garg, S. R., MSc Instr.

Architecture

Mandalia, G. M., MArch MS III Assoc Prof
Datta, K. L., MFA III Reader
Rattan, K., BArch MTech *Kharagpur* Reader

Subharwal, S. P, BA1ch Reader
Mathur, D. D, BArch MRP *Corn.* Reader
Chaudhuri, I. S Lectr.
Sahu, R. K, BArch Lectr
Bassemboob, B. M Lectr
Vijay Kumar, BArch *Delhi* Lectr.

Engineering, Civil

Chaturvedi, R. S, MIE(India) Prof
Yoshikawa, S Visiting Prof
Singh, S. R, BScEngin *Brist.* Assoc Prof
Krishna, J., PhD *Lond*, BSc CE Assoc. Prof
Jain, O. P, PhD *Lond*, BSc CE Reader
Singh, B, PhD *Lond*, CE Reader
Naran, J, BSc *Luck*, MSc(CE) *Purdue*,
BE (on leave) Reader
Shahani, P. B., BE Reader
Chitale, H. D., BE(Civil) Reader
Vaswani, N. K, BSc(Eng) *Bom*, MSc(CE)

Reader
Arya, A. S, CE ME Reader
Singh, V, BSc CE Reader
Harkauli, A. N, MS(CE) MIngEngr BSc
CE Reader

Oswal, H. L., BSc(Min) *Ban*,
MSc(Eng) *Lond* Reader
Chandra, M., MS *Calif*, BSc CE Reader
Misra, H. C, BSc *Alld*, BE(Civil)
PostgradDipl Lectr

Mirajgaokar, A. G, BE(Civil) ME
(on leave) Lectr
Gupta, S. P, BE(Civil) PostgradDipl
(on leave) Lectr

Tilak, R, BSc *Agra*, BE(Civil) Lectr
Agarwal, K. B, BE(Civil) DiplEng Lectr.
Rao, P. V., MTech *Kharagpur*, BE(Civil) Lectr
Kshirsagar, S. R, BE(Civil) *Bom*,
PostgradDipl Lectr.

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Chandra Sekaran, A R, MTech *Kharagpur*,
BSc(Eng) Lectr
Varma, R. S., BE(Civil) Lectr
Manglik, S K., BE(Civil) Lectr
Kanchi, M B., BE(Civil) PostgradDipl Lectr.
Khanna, S K., BE(Civil) PostgradDipl Lectr
Sharma, K P., BSc BE(Civil) Lectr
Chandra, S., DiplHyd *T H Delft*, BE(Civil) Lectr.

Ajmani, J L., MS BE(Civil) Lectr
Bhati, M. S., BE(Civil) Lectr
Malhotra, R. C., BE(Civil) Lectr
Swarup, B. R., BSc(Eng) Lectr.
Garde, R J., BSc BE MS PhD Lectr
Singh, K. P., BSc BE(Civil) Lectr
Agarwal, S. R., BE(Civil) Lectr
Rajan, G., BE(Civil) Lectr
Jain, V C., BE(Civil) PostgradDipl Lectr
Toshniwal, C L., BE(Civil) PostgradDipl Lectr
Nayak, G C., BE PostgradDipl Lectr.
Patni, N K., BE PostgradDipl Lectr
Morjani, S S H., BTech *Kharagpur* Lectr
Khanna, A K. Sr. Instr

Engineering, Electrical

Ghosh, C S., MSc *Calc*, SM *M I T* Prof.
Jethi, J L., BSc(Eng) *Ban* Reader
Biswas, N N., PhD *Kharagpur*, BSc Reader
Ray, L. M., MSc PhD Reader
Jain, G C., DrIng *Berl*, BSc Reader
Rao, T S M., PhD *Lond*, MSc(Electr) Reader
Indirasan, P V., PhD *Lond*, BSc

(on leave) Lectr
Kohli, D R., MS BE(Electr) (on leave) Lectr
Kulshreshtha, O P., BSc BE(Electr)

(on leave) Lectr
Raina, Y. B L., BA *Lond*. Lectr
Goyal, R. C., MSc BE(Electr) Lectr.
Lal, M., BSc (on leave) Lectr.
Mathur, N. C., BA Lectr.
Rampal, V. V., BSc Lectr
Das, P N., MSc Lectr
Ostwal, S. L., BE(Electr) Lectr.
Agrawal, Y L., BE(Electr) Lectr
Arora, R. K., BSc Lectr.
Sarkar, B., BE(Tech) Lectr.
Sood, R P., BSc ME Lectr

Engineering, Mechanical

Kamlani, M V., BSc(Eng) *Ban*, Prof
Shankar Lal, BSc(Eng) *Ban*, DIC, Assoc Prof
MSc(Eng) *Lond.*, PhD
Prasad, J., BSc(Eng) *Ban* Reader
Kapoor, P N., DiplMaschIng
E T H. *Zürich*, BA Reader
Saxena, M N., BSc(Metall) *Ban*,
MSc *Wis* Reader
Gupta, C P., MSc *Agra*, BE(Mech) Reader
PostgradDipl
Prakash, R., BSc *Agra*, BE(Mech) Reader
PostgradDipl
Srivastava, J. P., PhD *Mane*, BSc
BE(Mech) (on leave) Reader

Mankani, L B., ME *III*, BSc(Eng) (on leave) Lectr
Garg, D P., ME *III*, BSc BE(Mech) (on leave) Lectr
Prasad, J., ME *III*, BSc BE(Mech) (on leave) Lectr
Singh, D., BE(Mech) BE(Civil) Lectr
Suri, R K., BE(Mech) PostgradDipl Lectr
Gandher, J L., BE(Mech) Lectr
Verma, H K., BE(Mech) Lectr
Gupta, C M., BE(Mech) Lectr
Srivastava, B. C., BE(Mech) Lectr
Bahadur, S., BE(Mech) Lectr
Arora, N., BSc BE Lectr.
Saluja, G. S., BSc(Mech) Lectr
Jain, R. K., BE(Mech) Lectr
Grover, G K., BSc(Eng) Lectr.
Suresh, C., BE *Agra*, MS *III*, BSc(Eng) Lectr
Tyagi, R. S., MS ME BE(Mech) Lectr

REFRESHER COURSES

Ravi, D., CE Dir
Dixit, S C., CE Reader
Kohli, I C., BSc Reader

WATER RESOURCES DEVELOPMENT TRAINING CENTRE

Kathpalia, K N., BA CE Prof, Hd of Dept
Talwani, B S. Assoc Prof.
Sally, H L., BA CE Dir., Tech Publicns
Ajwani, H. J. Reader
Srivastava, J. N., CE Reader

DIPLOMA POLYTECHNIC

Sinha, D N., BSc(Eng) Principal

Engineering, Civil

Patwardhan, S. V., BE(Civil) *Bom.* Hd.
Chandra, S., BE DiplStructEngin Lectr
Naithani, S. V., BE(Civil) Lectr.
Garg, J L., MSc *Alld* (Maths) Lectr.
Singh, S N., MSc *Agra* Lectr.
Bhatnagar, S S., BE(Civil) Lectr.
Ketkar, R N., BE(Civil) Lectr.
Sinha, A P., BSc Lectr
Gupta, R R., MA *Alld* Sr. Instr.
Narang, P N., MA Sr. Instr.
Nandan, R Sr. Instr.
Garg, S S. Sr. Instr.
Jain, S C. Sr. Instr.
Gupta, N K. Instr
Jain, S C. Instr
Jindal, R K. Instr.
Lavania, B V K Instr
Lal, S Instr
Chand, S Instr.

Engineering, Electrical

Roy, S. N., MSc Hd
Rao, K. K V. S., BE(Electr) Lectr.
Gupta, R G., BSc(Eng) *Ban* Lectr
Vidyarthi, R A., DEE *Bda* Sr. Instr

Diwan, H L
Jain, M. G
Upadhyaya, S. N.

Sr Instr	Sachan, M. N., BE(Mech)	Lectr
Instr.	Khuslanu, K. A., BSc(Engg) <i>Agro</i>	Lectr
	Vasudev, K L	Asst Supt, Workshop
	Singhal, R	Sr Instr.
	Soneja, B K	Sr Instr
	Gupta, K N	Sr Instr
	Kavshik, J. P	Instr

Engineering, Mechanical
Mathur, A. P., BSc(Eng) *Ban.*

Hd.

ADMINISTRATIVE AND OTHER STAFF

Asst Registrar. V N Kak, MA *Luck* Asst
Registrar (exams) S D Arora, PhD MSc
Offg. Supt of Workshops B C Shrivastawa
Supt, Univ Estate. R S Vaish O C., N.C.C.

Major N Kumar Univ Med Supt. I S
Singh, MB BS BSc *Pan* Accounts Officer
C S Singh Personal Asst to Vice-Chancellor.
S S Srivastava, BCom *LJB*

GENERAL INFORMATION

Established in 1847, the Thomason Coll of Civil Engineering, the oldest engin coll in India, became the Univ of Roorkee by the University Act of 1948 (U.P. Act No IX of 1948) as amended by Act no XII of 1949. The Univ was constituted to provide for the teaching of all branches of engin at Roorkee in a unitary, teaching and residential Univ.

CONSTITUTION The authorities of the Univ. are the senate and the syndicate. There are also a finance ctee and a bd of studies to advise on financial and academic matters respectively.

INCOME (1955-60) Total income, Rs 8,081,059 (state grant, 27 per cent, UGC, 28 per cent, govt of India, 29 per cent, Univ receipts, 13 per cent, other sources, 3 per cent).

UNIVERSITY PRECINCT. The Univ area comprises about 400 acres along the Ganga canal at Roorkee, amidst the most fertile land in Uttar Pradesh.

LIBRARY. Central libr. 51,112 books and periodicals on engin and scientific subjs., rare books of bibliog value. Reading and reference rooms.

METEOROL OBSERVATORY

MUSEUM of geol, concrete technol, civil engin

LABORATORIES Phys, chem, soil mechanics, concrete technol, mechanics, hydraulics, photogrammetry, heat engines, refrigeration, struct engin, survey, internal combustion engines, testing of materials, hydraulic machines, advanced electr machines, electr. communication and electr. high voltage. Fully equipped workshops for instructn.

ADMISSION To BE and BArch. Admission to 1st yr of BE and BArch courses is by annual competitive exam in May (circulars & applicn forms available in Jan). Age limits, 17 to 21 yrs., 20 per cent of total places are reserved for scheduled caste and scheduled tribes candidates. Qualifs for admission. pass in inter exam with maths, phys and chem or geol, or (for archit course only) inter exam in arts with maths, provided high sch exam has been passed with phys and

chem, of the UP bd of high sch & inter educn. or of any other bd. or Univ in the Indian union recog by the govt., Camb. higher sch cert with maths, phys and chem.; pre-engin exam of Delhi Polytechnic, 1st yr exam of 3-yr degree course of all statutory univs. with maths, phys and chem, BSc exam of Delhi Univ with Engl, maths. and phys or chem, provided that engl or phys was taken in the higher sec exam of the Delhi bd; BA (hons) in maths of Delhi Univ., provided sci subjs were taken in the higher sec exam, inter sci. cert (with maths, phys. and chem) of the East Panjab Univ in lieu of soc science, overseer cert or dipl in civil, electr or mech engin of the Univ of Roorkee or any other dipl recognized by the Univ, draughtsman cert. or dipl exam of Univ of Roorkee, and yr. exam. of Natnl. Defence Academy, GCE exam. of Univ of London with maths, phys and chem at advanced level.

To MSc (only 10 students admitted to each course) MSc (phys)—1st or high and class BSc with phys, chem & maths, MSc (chem)—1st or high and class BSc with phys, chem & maths or phys & maths or phys, maths & stats, MSc appl (geol)—1st or high and class BSc with phys, chem & geol, MSc appl. (maths)—1st or high and class BSc or BE.

To ME (only 10 students admitted to each course) degree in engin of Roorkee or other approved univs, or dipl of the former Thomason Coll of Civil Engin, Roorkee, or natnl dipl. of AICTE obtained from Delhi Polytechnic between 1945 and 1952 (both yrs inclusive), degree in mining engin for postgrad. course in photogrammetric engin.

To PhD in engin & sci. a master's degree of a recog. Univ.

To dipl courses Admission to 1st yr is by competitive exam. in May (circulars & applicn forms available in Jan). Age limits, 16 to 21 yrs., 20 per cent of total places are reserved for scheduled caste and scheduled tribes candidates. Qualifs for admission. high sch exam of U.P. bd of educn or an exam. recog. by govt as equivalent.

FIRST DEGREES 4 yrs—BE (civil, electr, mech, telecomm), 5 yrs—BArch

HIGHER DEGREES 24 mos' res in the univ—PhD in civil, electr, mech, engin., phys, chem, maths, geol; 12 mos plus 6 mos' practical trg.—ME in (i) dam design, irrigation engin and hydraulics; (ii) struct engin incl concrete technol., (iii) pub health engin., (iv) soil mechanics and foundation engin., (v) highway engin; (vi) photogrammetric engin., (vii) elect. machine design, (viii) appl. thermodynamics (refrigeration & air conditioning), (ix) appl thermodynamics (power engin, steam and I C E). 12 mos.—ME in water resources devel (a course financed by the govt of India to enable qualified serving engineers of the countries of Asia and Africa to study the latest devels. in engin. techniques in river valley projects, 40 places available) Candidates who have passed the ME exam. but not yet qualified in the dissertation are eligible for award of a postgrad. dipl. in engin

HONORARY DEGREES. DSc, DEng

DIPLOMA* 3 yrs—Overseer's (civil, electr, mech), 2 yrs—draughtsman (civil, electr & mech) The univ. also awards a postgrad dipl. in engin. (see 'Higher Degrees', above)

OTHER COURSES Refresher courses: courses of 3 mos in civil, electr. and mech engin to enable serving engineers to keep up to date

RESEARCH. Facilities for res are available in civil, electr. and mech. engin.

TUITION FEES PhD course, Rs 100 per session; other postgrad courses, Rs 240, engin degree course, Rs 216, dipl in engin courses, Rs 54 per session of 9 mos, draughtsman dipl. courses, nil

SCHOLARSHIPS For BE and BArch courses 33 entrance and 70 course scholps each of Rs 50 p.m. for 9 mos, plus 1 scholp. in each yr in any branch of engin for scheduled caste candidates, available to students of the UP For ME courses scholps of Rs 250 p.m. for 12 mos awarded to all students admitted to each course For overseer and draughtsman courses 137 scholps of Rs 25 p.m. for 9 mos, plus 2 scholps

in each yr of dipl in engin (civil) course awarded to students of the scheduled caste The govt of India awards 45 scholps of Rs 150, 180 and 200 p.m. to engin, overseer and draughtsman students coming from foreign countries

ACADEMIC YEAR Sept to May, 2 terms Term dates (approx) Sept 1 to Dec. 20, Jan 5 to May 31

The LANGUAGE OF INSTRUCTION is English

PRACTICAL TRAINING Engin students are provided with facilities to undergo 6 weeks' practical trg during the long vacation, in govt depts and indust. enterprises. They are also given facilities and encouragement to do manual work by joining the community projects of the univ.

RESIDENCE, ETC Residence in the univ hostels is compulsory Engin students have a common mess (membership compulsory) Dipl & draughtsman students also have a common mess (membership compulsory)

CLUBS. Separate clubs for the engin and overseer, supervisor and draughtsman class students exist Membership is compulsory. Soc functions are arranged in the clubs to establ informal contacts between the staff, guests and students

THOMASONIAN SOCIETY. Organized by students under guidance of a sr member of staff. Membership is compulsory.

OLD THOMASONIANS' ASSOCIATION Annual meeting held at time of convocation, which provides an opportunity for former students to establ. contacts with the present staff and students. Lectures are given and papers on academic subjects read at the meeting

NATIONAL CADET CORPS Consists of two engin platoons. Trg is compulsory for 1st- and 2nd-yr engin students Overseer and draughtsman classes have to do phys. trg. under a military instr

PUBLICATIONS Calendar (Rs 6), Annual Report; Syllabus (Rs 1.4), Prospectus (6 as), Alumni Journal (incorporating the Lion and the Thomasonian Bulletin)

THE YEAR 1960

HONORARY DEGREES DSc—S Radhakrishnan, vice-pres of India

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	1676	33
Women . . .	15	—
Total . . .	1691	33

Distribution by Courses. Degree students: ME(W.R.D), 15, MSc, 14; BE(Civil), 344;

BE(Electr), 181; BE(Mech), 172, BE(Telecom), 83, BArch, 83 Diploma students dipl in engin, 643 (civil, 326, electr, 160, mech, 157), draughtsman, 68 (civil, 41, electr & mech, 27) Postgraduate students, 121 Total 1724

Included in the figures above are —

Pre-University or Intermediate students, nil
Postgraduate students, 117
New admissions, 497
Students from other countries, 81 (Country from which largest number came Nepal, 58)

DEGREES AWARDED (1960). ME, 36, BE, 243
DIPLOMAS AWARDED (1960) Postgrad, 59, draughtsman, 36

SARDAR VALLABHBHAI VIDYAPEETH *

Founded 1955

Postal Address : Vallabh Vidyanagar (W. Rly.), Dist. Kaira,
Gujarat State, India

Cables and Telegrams : Vidyapeeth

Telephone : Registrar—192 (Anand)

CHANCELLOR—THE GOVERNOR OF GUJARAT (*ex officio*)

VICE-CHANCELLOR—B. J. PATEL, BA LLB Bom.

REGISTRAR—H. A. MISTRY, MA Bom & Oxon

TEACHING STAFF

(University Postgraduate Departments)

Botany		Patel, J. J., BSc MED	Lectr.
Raghavan, T. S., MA <i>Madras</i> , PhD <i>Lond</i>	Prof., Hd. of Dept.	Desai, H. G., BSc MED	Lectr.
	Reader	1 Res. Asst	
Inamdar, J. A., MSc	Lectr.	English	
Deshpande, B. P., MSc <i>Poona</i>	Lectr.	Dave, R. A., MA <i>Bom</i>	Reader
		Pancholi, R. N., MA <i>Bom</i>	Lectr.
Chemistry		French and German	
Patel, R. D., MSc <i>Bom</i> , PhD <i>Law</i>	Prof., Hd. of Dept.	Jadhav, G. M., BA <i>Lond</i>	Reader
Nankad, B. N., BSc PhD <i>Bom</i>	Reader		
Patel, S. R., MSc PhD <i>Bom</i>	Reader	Gujarati	
Patel, R. P., MSc <i>Gujar</i>	Lectr.	Patel, J. K., MA BT <i>Bom</i>	Reader
Trivedi, B. A., MSc	Lectr.	Patel, J. M., MA BT <i>Bda</i>	Lectr.
Shah, M. V., MSc <i>Gujar</i>	Lectr.		
...			
Commerce		Hindi	
Beri, G. C., MCom <i>Agra</i> , PhD <i>Lond</i>	Prof.	Pant, M. B., MA BT <i>Bom</i>	Prof.
Patel, H. H., BA MCom LLB <i>Bom</i>	Reader	Khandelwal, R. L., MA <i>Bom</i> , PhD <i>Agra</i>	Reader
	Lectr.	Trivedi, S. R., MA <i>Bom</i>	Lectr.
Economics		History	
Amun, R. K., MA <i>Bom</i> , MSc <i>Lond</i>	Prof., Hd. of Dept.	Tiwari, A. R. G., MA LLB <i>Agra</i> , PhD <i>Poona</i>	Reader
...	Reader		
Gulati, K. S., MA <i>Panjab (I)</i> , MSc <i>Lond</i>	Lectr.	Mathematics	
Antani, Miss P. Namila, MA <i>Bom</i>	Lectr.	Patel, D. M., BSc <i>Lond</i>	Prof., Hd. of Dept.
Desai, G. M., MA <i>Bom</i>	Lectr.	...	Reader
		Patel, S. R., MSc <i>Bda</i>	Lectr.
Education (S.T.T. College)			
Patel, I. J., MA BT <i>Bom</i>	Principal		
Desai, M. G., BA BT MED	Lectr.		

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Philosophy		Political Science	
Bharappa, S H, MA Mys	Reader Lectr	Kshirsagar, S K, MA Bom, PhD	Reader
Physics		Sanskrit	
Joshi, M S, MSc Bom, PhD Lond	Prof Reader	Kapadia, B H., MA PhD Bom	Reader
Patel, M M, MSc Gujar	Lectr	Shukla, Mr C P, MA Bom	Lectr

ADMINISTRATIVE AND OTHER STAFF

Asst Registrar K A Amin, BCom Bom	C R Patel, LLB Bom, DipLib Bda	Curator,
Dir of Phys Educn & Recreation V B	Archaeol. Museum A V Pandya	
Captan, MA Bda, MPED Mass Asst Librarian		

CONSTITUENT AND AFFILIATED COLLEGES

[BSc(Agn), BCom, etc, after the name of a coll means that courses are provided there for BSc(Agn), BCom, etc]

ANAND, *Bansal Amritlal College of Agriculture* (tel. 29 Anand). BSc(Agn), MSc(Agr) Principal—R. M Patel, MSc PhD Wis. 51 Teachers

VALLABH VIDYANAGAR, *Bhikhabhai Jvabhai Vanyya Mahavidyalaya* (Commerce Coll.) (tel. 31) BCom Principal—M M Shah, MCom Bom, MSc(Econ) Lond 22 Teachers

VALLABH VIDYANAGAR, *Burla Vishwakarma Mahavidyalaya* (Engin Coll) (tel. 31 Anand) Principal—R H Chokhavatia, ME Roor, MIE (India). Hds of Depts MECH ENGIN—S Anantkrishnan, BA BE, ELECTR ENGIN—K V Kardile, MSc 80 Teachers.

VALLABH VIDYANAGAR, *Nalm & Arund Arts College* BA Principal—T. G Deokule, MA. Hds of Depts GUJARATI—B K Chokshi, MA PhD 29 Teachers

VALLABH VIDYANAGAR, *Secondary Teachers' Training College* (tel. 193 Anand) BED, MEd, TD Principal—I J Patel, MA BT Bom 11 Teachers

VALLABH VIDYANAGAR, *Vithalbhai Patel Mahavidyalaya* (Sci Coll) (tel. 31 Anand) BSc. Principal—A R. Patel, MSc PhD Lond 89 Teachers

GENERAL INFORMATION

Established by Bombay Act no XL of 1955 as a teaching and affiliating univ in a rural setting, the purpose of Sardar Vallabhbhai Vidyapeeth is to help to accelerate the process of regeneration of villages by the application of modern arts, scis and technol to rural requirements

CONSTITUTION. The principal univ authorities are senate, syndicate, facs, bds of studies and bd of postgrad studies and res. Senate is the supreme governing body and syndicate the chief executive body

INCOME (1960-61) Rs 867,640 (principal sources: govt. grant, 62 per cent, fees, 38 per cent)

FACULTIES AND DEANS. *Agric*, Principal R. M Patel, *arts*, Principal T. G. Deokule, *comm*, Prof R K Amin (econ), *sci*, Prof R D Patel (chem), *technol* (incl engin.), Principal R H Chokhavatia

UNIVERSITY LIBRARY Approx 19,800 vols

ADMISSION. For enrolment as students of the univ. for degree courses, applicants must have

passed the S S C. exam conducted by a recog exam. bd. and the pre-univ exam. of the univ. after attending a course of instructn as laid down by the univ (or any other exam recog as equivalent) Students passing the S S C exam are admitted to the pre-univ course

FIRST DEGREES. 3 yrs. after pre-univ—BA, BSc, BCom, BSc(Agn); 4 yrs. after pre-univ—BE First degrees are taken entirely by regular attendance.

HIGHER DEGREES. BED, 1 yr, MA, MSc, MCom, MEd, MSc(Agn), ME, 2 yrs, PhD, 2 yrs after master's degree Degrees open to grads. of other univs on reciprocal basis

DIPLOMA TD, 1 yr after S S C exam

RESEARCH Guidance in res is provided in the univ. postgrad depts. (see 'Teaching Staff', above)

STUDY LEAVE. There is provision for study leave for permanent and whole-time teachers of the univ., other than profs., with not less than 3 yrs' continuous service This opportunity is given to teachers in accordance with univ. requirements.

FEES. Tuition fee per term for postgrad. students fac. of agric., Rs 30, facs of arts, comm, sci (maths. only), Rs. 60, other sci subs, Rs 100, fac of engin, Rs 200, BEd, Rs 120, TD, Rs 75, MEd, Rs 100

The constituent colls may in addn. charge fees not exceeding Rs 10 in the aggregate per term for gymkhana, library and other services

ACADEMIC YEAR. Two terms June to Oct., Nov to March

USUAL LANGUAGE OF INSTRUCTION Hindi or Gujarati for preparatory, with option to use Engl; Engl beyond preparatory stage with option to use either Hindi or Gujarati

STUDENT RESIDENCES The univ. has its own hostel for 144 students.

PUBLICATIONS *Univ Handbook* (pt. II, containing the acts, statutes and ordinances, and pt III, containing syllabuses for various courses of study).

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	4468	—
Women	255	—
Total	4723	—

Distribution by Faculties *Agric*, 703, *arts*,

572, *comm*, 710, *educn* (S T T), 87, *engin.*, 996, *sci*, 1421; *postgrad*, 234 Total 4723

Included in the figures above are —

Pre-University students, 2025

Postgraduate students, 234

Students from other countries, nil

DEGREES AWARDED (1960) *Agric*: BSc(Agric), 45, PhD, 1 *Arts* BA, 68, MA, 33 *Comm* BCom, 85, MCom, 5 *Educn* BEd, 87 *Engin* BE, 120 *Sci* BSc, 153, MSc, 25
Total number of first degrees awarded, 471

UNIVERSITY OF SAUGAR*

Founded 1946

Postal Address . Sagar, Madhya Pradesh, India

Cables and Telegrams · University, Sagar

Telephone Sagar, 5

CHANCELLOR—K. N. KATJU, MA LLD *Alld.*, DLitt

PRO-CHANCELLOR—S. D. SHARMA, MA LLM PhD *Camb.*, DPA *Lond.*, FBA

VICE-CHANCELLOR—D. P. MISHRA, BA LLB DLitt

FINANCE OFFICER—B. P. MISRA, BA

REGISTRAR—Professor I. CHANDRA, MA *Pany*

DEPUTY REGISTRAR—P. BAJPAI, MA *Alld.*, LLB

DEANS—ARTS—Professor M. P. SHARMA, MA DLitt *Alld.*, EDUCATION—Principal A. MISRA, MA BSc LLB BT DLitt; ENGINEERING—V. M. DOKRAS, MS PhD *Col.*, LAW—B. L. SETHI, BSc LLB *Alld.*, SCIENCE—Professor D. S. SHRIVASTAVA, MSc PhD *Belf.*

PROCTOR—Professor N. D. BAJPEYI, MA

WARDEN—M. L. MISRA, MA DSc *Alld.*

TEACHING STAFF

Ancient Indian History, Culture and Archaeology

Bajpai, K. D., MA <i>Ban.</i>	Asst. Prof.
Pathak, V. S., PhD <i>Ban.</i>	Asst. Prof.
Pandey, S., MA <i>Alld.</i>	Asst. Prof.
Dube, Mrs. Lala, MA PhD <i>Nag.</i>	Asst. Prof.

Anthropology

Dube, S. C., MA PhD <i>Nag.</i>	Prof.
Mawalwala, J. D., MA <i>Delln.</i> , PhD	Asst. Prof.
Srivastava, R. P., MA <i>Luck.</i> , PhD	Asst. Prof.
Chouhan, B. R., MA LLB	Asst. Prof.
Dube, Mrs. Lala, MA PhD <i>Nag.</i>	Asst. Prof.

Botany

Saksena, S. B., MSc PhD	Reader
Bhargava, H. R., MSc <i>Agra</i>	Asst. Prof.
Mall, L. P., MSc <i>Luck.</i> , PhD	Asst. Prof.
Rao, Y. S., MSc <i>Ban.</i> , PhD	Asst. Prof.
Tagegy, Y. D., MSc <i>Agra</i> , PhD	Asst. Prof.
Bajpai, S. K., MSc DPhil <i>Alld.</i>	Asst. Prof.

Chemistry

Bhattacharya, A. K., DSc <i>Alld.</i> , FRIC	Prof.
Nigam, S. S., MSc <i>Alld.</i> , DIC, PhD <i>Lond.</i>	Reader
Banerji, S. N., MSc DPhil <i>Alld.</i>	Reader
Mahajani, A. V., MSc <i>Alld.</i>	Asst. Prof.
Shrivastava, H. N., MSc <i>Nag.</i>	Asst. Prof.
Manhas, M. S., MSc DPhil <i>Alld.</i>	Asst. Prof.

Bhattacharya, A. K., MSc PhD

Dikshit, M. K., MSc PhD	Asst. Prof.
Singh, R., MSc PhD <i>Ban.</i>	Asst. Prof.
Lal, S. S., MSc <i>Alld.</i>	Asst. Prof.
Rai, R. C., MSc DPhil <i>Alld.</i>	Asst. Prof.
Awasthi, P. N., MSc PhD	Asst. Prof.
Kher, Y. G., MSc PhD	Asst. Prof.

Commerce

Sahay, G., MA PhD <i>Lond.</i>	Reader
Roy, R. P., MCom <i>Alld.</i>	Asst. Prof.
Pandey, V. P., MCom LLB PhD	Asst. Prof.
Saxena, R. B., MCom <i>Agra</i>	Asst. Prof.
Seth, P. K., MCom	Asst. Prof.

Criminology and Forensic Science

Bhatt, Justice G. P., BSc LLB	Prof.
Jatar, D. P., MSc PhD <i>Ban.</i>	Asst. Prof.
Shrivastava, S. S., MA PhD <i>Luck.</i>	Asst. Prof.
Johri, G. N., MA	Asst. Prof.

Economics

Misra, J. N., MSc <i>Lond.</i>	Reader
Raman, A., MA LLB	Asst. Prof.
Shete, M. K., MA <i>Nag.</i>	Asst. Prof.
Nakhare, M. G., MA <i>Nag.</i>	Asst. Prof.
Mishra, B. D., MCom <i>Alld.</i>	Asst. Prof.
Agarwal, J. L., PhD	Asst. Prof.
Kapil, D. P., MA	Asst. Prof.

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English		Kher, L G, MSc LLB	Hon. Asst Prof
Swaminathan, S R, BA <i>Madr</i> , DPhil <i>Oxon</i> .	Prof.	Sharma, S L, BA LLB	Hon Asst. Prof
Marathi			
Mukerji, A, MA DPhil <i>Alld</i>	Asst. Prof.		
Mallikarjunan, S, BA <i>Madr</i>	Asst. Prof.		
Chatterji, A N, MA <i>Calc</i>	Asst. Prof.		
Shrivastava, H. B., MA LLB	Asst. Prof.		
Misra, J. S., MA <i>Luck</i> .	Asst. Prof.		
Chamu, S V, MA <i>Mys</i> .	Asst. Prof.		
Vermis, Mis F E, MA	Asst Prof		
French, see German and French			
Geography			
Muzaffar Ali, MA MSc PhD <i>Lond</i> , FNI	Prof		
Misra, V. C., MA PhD	Asst. Prof.		
Panchapagesan, N., BSc <i>Madr</i> .	Asst. Prof.		
Agarwal, P C., MA <i>Alld</i>	Asst. Prof.		
Iyer, N. P., BSc <i>Madr</i> .	Asst. Prof.		
Vermis, Pramila, MA DPhil <i>Alld</i>	Asst Prof.		
Geology			
Chiplonkar, G W, DSc <i>Ban</i>	Reader		
Durge, M V, MSc	Asst Prof		
Murty, T V V G R K., MSc <i>And</i>	Asst Prof		
Das, B, MSc <i>Ban</i>	Asst Prof		
Geology, Applied			
West, W D, MA ScD <i>Camb</i> , FNI	Prof		
Das, K N, MSc <i>And</i>	Asst Prof		
Prabhakara Rao, Y S, MSc <i>And</i>	Asst. Prof		
Shrivastava, J N, BSc	Asst Prof		
Babu, S K, MSc <i>Mys</i> , PhD <i>Madr</i>	Asst Prof		
German and French			
	Asst. Prof		
Hindi			
Baypey, N D, MA <i>Ban</i> .	Prof		
Pande, R N, MA <i>Alld</i>	Asst. Prof		
Singh, R L., MA PhD	Asst Prof		
Bhatnagar, R. R., MA DPhil <i>Alld</i>	Asst. Prof.		
Jha, G N, MA <i>Nag</i>	Asst Prof		
Prem Shankar, MA PhD	Asst Prof		
Shukla, B. D, MA PhD	Asst Prof		
Misra, S K, MA PhD	Asst Prof.		
History			
Gupta, H L, MA DPhil <i>Alld</i>	Reader		
Mehrotra, S R, MA <i>Alld</i> .	Asst Prof.		
Tippathi, G S, MA <i>Ban</i>	Asst Prof		
Amar, V B, MA Munshi Fazl <i>Pang</i> .	Asst. Prof		
Indo-Iranian Studies			
Saksena, B R., MA DLitt <i>Alld</i> .	Prof.		
Law			
Bhatt, Justice G. P., BSc LLB	Prof.		
Shrivastava, G. S., MA LLB	Hon. Asst Prof.		
Saraf, B. L., BA LLB	Hon. Asst Prof		
Persian			
Amar, V B, MA Munshi Fazl <i>Pang</i> .	Hon. Asst Prof		
Pharmacy			
Sharma, S N, MPharm PhD <i>Manc</i>	Reader		
Varma, K C., MSc PhD <i>Wash</i>	Asst. Prof		
Singh, H K, MPharm PhD <i>Ban</i>	Asst Prof.		
Nikore, R L., MPharm <i>Ban</i> , PhD <i>Berl</i>	Asst. Prof.		
Khare, R L., MSc	Asst Prof.		
Chauhan, C S, BSc	Asst Prof.		
Philology and Linguistics			
Saksena, B R, MA DLitt <i>Alld</i> .	Prof.		
Mehrotra, P C, MA <i>Agia</i>	Asst. Prof.		
Dwivedi, D S, MA PhD <i>Agia</i>	Asst Prof		
Philosophy and Psychology			
Awasthi, C S, MA <i>Ban</i> , LLB	Asst Prof		
Bhattacharya, S, MA <i>Calc</i>	Asst. Prof		
Daya, MA PhD <i>Delhi</i>	Asst. Prof.		
Prakash, J, MA DPhil <i>Alld</i> .	Asst Prof.		
Joshi, M. C., MA <i>Ban</i> .	Asst. Prof		
Roy Chowdhury, K, MA PhD <i>Lond</i>	Asst Prof.		
Physics			
Bhawalkar, D R., MSc PhD <i>Lond</i> .	Prof		
Shrivastava, M. P, DIC, MSc <i>Lond</i>	Reader		
Ranade, J D., MSc PhD <i>Lond</i>	Asst Prof.		
Pandey, D C, MSc <i>Luck</i> , PhD <i>Lond</i> .	Asst. Prof.		
Shrivastava, R. K, MSc <i>Nag</i> .	Asst. Prof.		
Goel, S P., MSc <i>Luck</i>	Asst Prof		
Zope, J K, MSc PhD	Asst Prof		
Deo, I, MSc <i>Alld</i>	Asst Prof.		
Agarwal, J P., MSc <i>Alld</i> .	Asst. Prof		
Sivaraman, S., MSc	Asst. Prof		
Shrivastava, A. P., MSc <i>Luck</i> .	Asst. Prof		
Shrivastava, K. S, MSc	Asst. Prof.		
Political Science			
Sharma, M. P, MA DLitt <i>Alld</i>	Prof.		
Singh, S. C., MA PhD DLitt <i>Luck</i> .	Reader		
Shrivastava, R. P, MA LLB PhD	Asst. Prof.		
Dube, R C., MA	Asst. Prof.		
Chauhan, V., MA	Asst Prof.		
Purohit, B R., MA PhD	Asst Prof		

Tiwari, S C, MA Nag., PhD Del
Dube, N P, MA
Kaushik, P D, MA Alld

Asst Prof
Asst Prof
Asst Prof

Urdu

Amar, V B, MA Munshi Fazil Pany

Hon Asst Prof

Zoology

Srivastava, D. S, MSc PhD Belf. Prof
Misra, S D, MSc Luck, PhD Sash Asst Prof
Saini, R S, MSc Agra, PhD Asst Prof
Shrivastava, R. K, MSc Asst Prof
Bhargava, H. N, MSc Alld, PhD Asst Prof.

Sanskrit

Upadhyaya, R, MA DPhil Alld Reader
Bhawalkar, Mis Vanamala, MA Nag. Asst Prof
Bhattacharya, B, MA PhD Ban Asst Prof
Pandey, Y, MA Alld Asst Prof

ADMINISTRATIVE AND OTHER STAFF

Asst Registrar (Exams) R Nema, MA BT
Chief Librarian B R Saksena, MA DLitt
Librarian. B L Pathak, MA MOL Pany Chair-

man of Delegation A K Bhattacharya, DSc Alld
Statistical Officer N S Verma, MA PhD

AFFILIATED COLLEGES

Note—All these colleges are in Madhya Pradesh

[Preparatory, BA, etc., after the name of a coll means that courses are provided there for Preparatory, BA, etc.]

AMBIKAPUR, Govt Degree College. BA, BCom.
Principal—R Guru, PhD 8 Teachers

BALAGHAT, Govt Degree College BA, BSc
Principal—R Prakash, MSc PhD 18 Teachers

BETUL, Jayawanti-Haksar College BSc, BCom,
BA Principal—G S Banhatti, MA 9 Teachers

BILASPUR, C M Dubey Commerce & Arts Col-
lege Preparatory, BA, BCom Principal—D P
Shukla, MA LL.M. 18 Teachers

BILASPUR, P G. Basic Training College BT
(Basic) Principal—G Y. Tankhiwale, MA BT. 6 Teachers

BILASPUR, S B R. College. BA, MA(Pol), BSc,
LLB Principal—A. L Pande, MA BT 40 Teachers

BURHANPUR, Seva Sadan Arts College. BA,
BCom Principal—G. B Chouksey, MA LLB 10 Teachers

CHHATARPUR, Maharaja College BA, MA,
BSc, MSc, BCom, BT. Principal—H R Mishra,
MA BT LLB DLitt 54 Teachers.

CHHINDWARA, Satpura Mahavidyalaya BA,
BCom. Principal—A P. Singh, MA DPhil LLB 9 Teachers

CHIRIMIRI, Lahuri Degree College of Arts,
Science & Commerce BA, BSc, BCom Prin-
cipal—J Lahuri, DipEd Lond, CertEd Camb,
MA BT 15 Teachers

DAMOH, Arts College BA, BCom Principal—
P M. Paranjape, MA 8 Teachers

DATIA, Govt Degree College BA, BSc
Principal—N. P. Nafde, MA. 17 Teachers.

DHANA, L. P. Sanskrit Degree College. IA, BA
Classics. Principal—Pandit C. B Pande, MA
Acharya. 6 Teachers.

DURG, Govt. Arts & Science College BA, BSc
Principal—S L Katsare, MA DLitt. 16 Teachers

HOSHANGABAD, Narmada Mahavidyalaya BSc,
BCom, BA, LLB Principal—R L Sharma,
MA LLB 25 Teachers

ITANSI, Mahatma Gandhi Memorial College
BA, BCom Principal—S B Trivedi, MA MOL 5 Teachers

JAGDALPUR, Govt Degree College BA, BSc
Principal—S N Kaveeshwar, MSc PhD 8 Teachers

JANJIGUR, Janjigur College of Arts & Commerce
BA, BCom Principal—Satya Sahai, MA 8 Teachers

KHANDWA, Govt Training College DipT,
BED, MEd Principal—K M Bakshi, MA Mich,
MSc Nag 24 Teachers

KHANDWA, Law College LLB Principal—
R K Gupta, MA LLB 6 Teachers

KHANDWA, Shree Nilkantheshwar Arts & Com-
merce College BA, BCom, BSc Principal—
R L Nirula, DIC, PhD 22 Teachers

MANDLA, Ram Durgawati Mahavidyalaya BA,
BCom Principal—S G Somaiwar, MA 7 Teachers

NARSIMHAPUR, Narsimhapur Degree College
BA, BCom Principal—P H Bhuraney, MA
PhD 10 Teachers

PANNA, Chhatrasal Degree College. BA, BSc
Principal—C Malviya, MA 16 Teachers

RAIGARH, Kironmal Govt Arts & Science
Degree College BA, BSc Principal—S P
Tiwari, MA PhD LLB 16 Teachers

RAIGARH, Kironmal Govt Polytechnic Dip

Engg (Civil, Electr, Mech) Principal—R. G Buldeo, BSc BE 15 Teachers

RAIPUR, *Chhattisgarh College* BA, MA(Pol), BCom Principal—J Joganandam, MA LLB 18 Teachers

RAIPUR, *College of Science* Preparatory, BSc, MSc Principal—S G Shukla, MSc PhD 67 Teachers

RAIPUR, *Govt Ayurvedic College* BAMS (Bachelor of Ayurvedic Med. & Surg) Principal—Vaidya S Saraswat, MA 15 Teachers

RAIPUR, *Govt College of Engineering & Technology*. BE (Metall, Mining, Civil, Electr, Mech). Principal—P C. Wadhvani, BSc(Mech & Engg), MIE(India) 22 Teachers.

RAIPUR, *Govt D S V Sanskrit Mahavidyalaya*. Madhyama (Intermediate Arts in classics), Shastri (BA in classics) Principal—S P Chaturvedi, MA 13 Teachers

RAIPUR, *Govt Guls' Degree College* BA, BSc Principal—Mrs N Sharan, MA 14 Teachers

RAIPUR, *Govt Training College* DipT, BE, Med Principal—Mrs F Chaudhari, DipAdm Wash, MA BT LLB MED 25 Teachers

RAIPUR, *Law College* LLB Principal—B B L Tiwan, BSc LLB 7 Teachers

RAIPUR, *New Arts & Commerce College* BA, BCom Principal—M V Ramchandran, MA 20 Teachers

RAJNANDGAON, *Digvijai Mahavidyalaya* BA, BCom, LLB Principal—K L Shukla, MA LLB. 26 Teachers

REWA, *Govt Agriculture College* BSc(Ag), MSc(Ag) Principal—P. S Lamba, MSc PhD 18 Teachers

REWA, *Govt Training College* BE, Med Principal—B L Sharma, MED MA MSc 11 Teachers

REWA, *Thakur Ramnath Singh College* BA, MA, BSc, MSc Principal—A P. Mathur, DSc 37 Teachers

SATNA, *Govt Degree College* BA, BSc. Principal—C B Shukla, MA 18 Teachers

SATNA, *Law College* LLB. Principal—V S Mishra. 5 Teachers

SEONI, *Shri Shukhachand Jain Science & Arts College* BA, BSc Principal—G S Pandeya, MA LLB 12 Teachers

SHAHOL, *Govt Degree College* BA, BSc Principal—R M Chaturvedi, MA LLB 16 Teachers

SIDHI, *Govt Degree College* BA Principal—A H Nizami, MA 6 Teachers

TIKAMGARH, *Govt Degree College* BA, BSc Principal—M P Agarwal, MSc BT 17 Teachers

GENERAL INFORMATION

The univ was founded in 1946 by Sir Hari Singh Gour, who gave Rs 20 lacs and appealed to both central and provincial govts to make suitable donations. The govt. of Madhya Pradesh donated Rs 10 lacs towards the univ endowment fund and made a further grant of Rs. 15 lacs towards bldgs and equipment. They are also making a grant of Rs 10 lacs a yr towards the maintenance of the univ.

The founder of the univ intended that it should be particularly concerned with polytechnics. Accordingly, a scientific and technol fac has grown up laying sp emphasis on sci, phys., technol, engin and agric, along with a study of arts and soc sci.

The univ is a teaching and residential as well as an affiliating univ. Most of the teaching staff live in the univ bldgs and thus participate in the wider life of the univ.

CONSTITUTION The univ authorities are the court, executive council, academic council, cttee of reference, and facs.

INCOME (1959-60) Total income Rs 5,751,696 (state govt grant, Rs 1,000,000, U G C, Rs 840,000; grant for scholps., Rs 260,629, endowments, Rs 105,897, fees, Rs, 260,931; misc, Rs 3,284,239)

UNIVERSITY PRECINCT. The govt. of Madhya Pradesh have transferred to the univ 2050 acres of land, free of cost, at a site selected by the univ for the founding of the univ. town. The permanent bldgs of the univ are being constructed on the new site, which is on a plateau commanding extensive and beautiful views and more than 2000 ft above sea level. A wide range of bldgs, incl. those for the library, geol and pharm depts, residential quarters & students' hostel, and students' health centre, have been completed on the new site.

LIBRARY 71,720 vols, 11,000 bound periodicals, 500 pamphlets.

LABORATORIES. Bot, chem, geol., pharmacy, phys., zool.

MUSEUMS. Anthropol., bot., geol, hist., zool. BOTANICAL GARDENS

OBSERVATORY Meteorol. observatory controlled by phys dept

ADMISSION. Students who have passed the higher sec exam of Madhya Pradesh, or an equivalent exam, are eligible for admission to the 1st yr of the degree course at the univ. Those who have passed the univ inter cert exam. or any exam recog by the univ. as equivalent are

eligible for admission to the 1st yr. of bachelor degree course. Grads of this univ., as well as of other recog univs, are eligible for admission to the postgrad degree courses.

NON-MEMBERS OF THE UNIV. are not admitted to classes.

FIRST DEGREES 3 yrs after Preparatory—BA, BSc, BPharm, BSc (appl biochem. scis.), BCom, BSc(Agr); 4 yrs—BE in mining & metall., civil, elect., mech., telecomm. engin. All degrees (incl higher degrees) of the univ may be taken externally by teachers in recog schools and colls. within the territorial jurisdiction of the univ., and by women candidates.

A course in general knowledge is compulsory for all undergrad students.

HIGHER DEGREES 1 yr—BT, 2 yrs—LLB, MA, MSc, MPharm, MCom; 3 yrs—MTech, 20 mos or more—PhD.

DIPLOMAS Yogic studies, 1 yr., teaching (DipT), pharm, engin, 2 yrs, engin, 3 yrs, oriental leaping, 4 yrs.

POSTGRADUATE RESEARCH is carried out in all depts. in facs of sci, arts and educn.

FEES per session Preparatory arts, Rs 117, comm, Rs 126; sci., Rs 135. Pre-professional Rs 135. Degree courses: BA, BSc, Rs 135, BCom, Rs 144; BSc(Agr), Rs 145, LLB 'previous', Rs 108, final, Rs 126, BPharm, MA, MSc, MPharm, Rs 162; BE, Rs 165, MTech, Rs 162, MCom, Rs 171.

ACADEMIC YEAR July to April, *2 terms: July to Oct, Nov. to April.

LANGUAGE OF INSTRUCTION Hindi in inter. classes (except engin, law and pharmacy) and in degree classes (except for scientific and technical subjs. where both Hindi and Engl are used).

STUDENTS' RESIDENCES 8 halls of residence (6 for men, 2 for women). Total number of students in residence at the univ is 741 (683 men, 58 women). Hostel fees single room, Rs 5 p m, dble room, Rs 4 p m.

STAFF RESIDENCES About 120 staff members live in the residences on the univ campus (new site, 36, old site, 84).

UNIVERSITY MILITARY FORMATION Regular national cadet corps indep co maintained, through the state govt, by ministry of defence of govt of India.

STUDENT HEALTH SERVICE. The bd of physical welfare supervises the arrangements connected with phys welfare of students. There is a resident med officer and a small hosp. unit.

STUDENTS' UNIONS Univ of Saugar union, delegacy students' union and hostel students' union.

PUBLICATIONS. *Calendar* (publ every 3rd yr, Rs 5, current edn, 1958-59), *Prospectuses* and *Syllabuses* (annual, various prices), *Annual Report*, *Univ Journal* (twice a yr.), magazines of students' unions (twice a yr.).

UNIVERSITY PRESS. The univ. maintains a small univ. press.

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	12,733	39
Women	1,084	20
Total	13,817	59

Univ colls 1833 (1692 m, 141 w); affiliated colls 12,043 (11,080 m, 963 w.) Total. 13,876.

Distribution by Faculties, etc Agric, 383,

arts, 5291; comm., 1999; Ayurvedic med & surg, 182, educn, 744, engin, 513; law, 734, pharm, 71; sci, 3959. Total 13,876.

DEGREES AWARDED (1959-60). BA, 833, BA (classics), 16; BCom, 198, BSc, 209, BSc (Agr), 56, BED, 320, BSc (biochem.), 10, BAMS (pt II), 15; BE (IV yr), 16; LLB, 112; BPharm, 6, MA, 285; MSc, 127, MCom, 23.

DIPLOMAS AWARDED (1959-60). DipT, 126, DipPharm, 3, DipEngg, 108; DipSanskrit, 8.

SHREEMATI NATHIBAI DAMODAR THACKERSEY WOMEN'S UNIVERSITY

Founded 1916

Postal Address : 1 Nathibai Thackersey Road, Queen's Road, Fort, Bombay 1
Maharashtra State, India

Cables and Telegrams Uniwomen

Telephone : Bombay 241879

CHANCELLOR—H E. THE GOVERNOR OF MAHARASHTRA (*ex officio*)

VICE-CHANCELLOR—Mrs. PREMILA V THACKERSEY, DLitt

DEAN—Mrs SHARDA DIVAN, MA

REGISTRAR—Mrs KAMALINI H BHANSALI, BA MEd

DEPUTY REGISTRAR—I. N. KAJI, BA BT LLB

CONSTITUENT COLLEGES

BOMBAY, P V D T. College of Education for Women, 1 Nathibai Thackersey Road, Queen's Road, Fort, Bombay, 1 (tel. 243682) Founded 1959-60. Principal—Mrs Shakuntala Mehta, MS

BOMBAY, S.N.D.T. College for Women, 1 Nathibai Thackersey Rd., Queen's Rd., Fort,

Bombay, 1 (tel. 241127) Founded 1931 Principal—Prof D S Phatak, MA. 76 other Teachers

POONA, S.N.D.T. College for Women, Karve Rd, Brandwana (tel. 6689) Founded 1916 Principal—Mrs Sharayu G Bal, MA BT PhD. 24 other Teachers.

AFFILIATED COLLEGES

AHMEDABAD, S.L.U. Gujarat Mahila Pathshala, Sardar Patel Marg, opposite Khamasa Gate (tel. 52012). Founded 1920 Principal—Mrs. Indumati Mehta 15 other Teachers.

BARODA, Maharam Chhmnabai Mahila Pathshala, near Sursagar Founded 1923. Principal—Miss Sudha R. Desai, MA PhD. 14 other Teachers

BHAVNAGAR, Shri Mahila College, Waghwadi,

Shah Sadan Founded 1942. Principal—K. C. Shah, MA 13 other Teachers.

BOMBAY, Shri Matunga Gujarati Seva Mandal Women's College, 398 Telang Rd., Bombay, 19 (tel. 63046) Founded 1958 Principal—M J Pathakji, MA 14 other Teachers

SURAT, Z.F. Wadia Women's College, Athwa Lines Founded 1948. Principal—Mrs. Subhadra R Marfatia, MA 12 other Teachers.

GENERAL INFORMATION

The S.N.D.T. Women's Univ was founded by Dr. D. K. Karve in 1916 on the model of the Women's Univ. of Tokyo Dr. Karve based his plan for the new univ on the recognition of two principles—the use of the mother tongue as the most natural and effective medium of instruction, and the differentiation in courses of study to suit the different roles played by men and women in the social life of the country In 1920 the univ. was placed on a firm financial foundation by a munificent gift of Rs 15 lacs from Sir Vithaldas Thackersey The distinctive features of this

univ are that it is mainly concerned with the educn of women (courses of study incl such subjects as home econ., drawing, painting and nursing) and that all teaching work is carried on in Gujarati and Marathi

The univ. was granted statutory recognition by the state govt in 1951. It has 8 colls, 3 constituent and 5 affiliated

CONSTITUTION The supreme governing body of the univ is the senate The exec body is the syndicate

INCOME The univ receives a recurrent grant of Rs 163,130 from the govt of Maharashtra Exam fees, Rs 274,040, annual endowment (from Thackersey trust), Rs 45,000

LOCATION AND BUILDINGS The univ was originally located in Poona, but since 1936 the main office has been in Bombay The univ office and the coll. in Bombay are housed in a spacious bldg, constructed at a cost of about Rs 10 lacs, which was inaugurated by Dr S Radhakrishnan, vice-pres. of the republic of India, in 1952 The other bldg of the univ is under constrcn, its estimated cost is about Rs 27 lacs.

ADMISSION The qualif. for admission is the S S.C. exam. of the S S C Bd, Poona, or any other exam. recognized as equivalent for the purpose

FIRST DEGREES. BA—4 yrs Home sci (incl elementary biol & hyg), home making, home management & cookery, food & nutrition, physiol, psychol, are compulsory Ethics, philos., music, drawing and painting are optional subjects

BSc Nursing (hons.)—4 yrs Theoretical instrcn. at the univ, practical trg. and demonstrations at the Bombay Hosp. Students also visit the various special instns in the city for trg

The estab of a degree and coll. in home sci is contemplated

HIGHER DEGREES Postgrad courses are offered leading to the degrees of MA (2 yrs), BEd (1 yr) and MEd (2 yrs after BEd)

EXTERNAL STUDENTS All univ exams may be taken externally except those for BEd and BSc Nursing (hons.)

FEES Coll. fees, Rs 100 per term

ACADEMIC YEAR. Two terms. June 15 to Oct 14, Nov 15 to March 14

RESIDENCE No arrangements at present. Plans for a hostel are under consideration

STUDENT HEALTH No specific health service, but immediate first aid provided for in case of emergency

STUDENT ASSOCIATIONS A students' welfare bd looks after student interests generally There are also literary and sports bds and unions

PUBLICATIONS Prospectuses of courses (publ'd from time to time): *Civics, Dom. sci* (both in Gujarati & Marathi), *Econ* (in Marathi), *General Educn.* (both in Gujarati & Marathi), *Sociol* (in Gujarati), *Cultural History of India.*

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Women only	7565	—

All students are in Faculty of Arts.

Included in the figures above are —

Intermediate or Pre-University students, nil.

External students, 4602

Postgraduate students, 422

Students from other countries, nil

DEGREES AWARDED (1959-60) BA, 928, BSc Nursing (hons.), 6, MA, 77, BEd, 161, MEd, 18

SRI VENKATESWARA UNIVERSITY*

Founded 1954

Postal Address: Tirupati, Andhra Pradesh, South India

Cables and Telegrams: University, Tirupati

Telephone: Tirupati 52

CHANCELLOR—THE GOVERNOR OF ANDHRA PRADESH (*ex officio*)

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION OF ANDHRA PRADESH (*ex officio*)

VICE-CHANCELLOR—S GOVINDARAJULU, MA LLB Camb, BL ✓

REGISTRAR—M RAMANUJARAO NAIDU, MA *Madr*

DEPUTY REGISTRAR—B. SUBBA RAO, BA *Madr*

TEACHING STAFF

[§ = Hd of Univ. Dept]

UNIVERSITY COLLEGE OF ARTS AND SCIENCES

Principal—Prof. T A Purushottam, MA *Madr*, PhD *Lond*

Arabic, Persian and Urdu		Kamalanathan, K, M.Litt <i>Madr.</i>	Lectr
Ahmed, R U, MA <i>Agra</i> , PhD <i>Alig</i>	§Lectr.	Subbaramaiah, S, MA <i>Mys</i> , PhD	(on leave) Lectr.
Bokhari, S A R, MA <i>Madr</i>	Lectr		
Botany		Rau, B R K, MA <i>Saug</i> , PhD	Lectr
Rao, I M, DSc DipGerman <i>Madr</i>	§Prof	Narayan, B K, MA <i>Mys</i> , PhD	Lectr.
Sambasiva Rao, K V, MSc <i>And</i>	Lectr	Yugandhar, B. N., MA	Lectr
Seshagiri Rao, A, MSc <i>Madr</i> , PhD <i>Camb</i>		4 Temp Lectrs, 1 Tenure Tutor	
English			
Ramadas, V S, MSc <i>Delhi</i> , DPhil <i>Oxon</i>	Lectr.	Rama Sarma, M V, MA PhD <i>Wales</i>	§Prof
Venkatarama Naidu, M, MSc PhD	Lectr	Suryakanta, Mrs M, MA <i>And</i>	Lectr
1 Temp Lectr		Krishna Rao, T, MA <i>And</i>	Lectr.
Chemistry		Jayanta, R A, MA <i>Mys</i>	Lectr
Neelakantam, K, DIC, MA PhD	§Prof	Viswanathan, S, MA <i>Madr</i>	Lectr
Krishnan, V R., MA <i>Annam</i> , PhD <i>Kansas</i>		Tyagaraju, A S, MA	Lectr
	Reader	Rama Rao, S, MA PhD	Lectr
Appala Raju, N, DSc <i>And</i>	Reader	1 Permanent, 2 Tenure Tutors	
Suryanarayana Murthy, K, MSc <i>And</i>	Lectr		
Adinarayana Chetty, D, MA (on leave)	Lectr	Geology	
Ramachandra Naidu, P, MA	Lectr	Chakrapani Naidu, M G., MSc PhD <i>Mys</i>	§Prof
Brahmaju Rao, S, MSc <i>And</i> , PhD <i>Hamburg</i>	Lectr	Satyanarayana Murthy, M, MSc <i>And</i>	Lectr
Seshapathurao Naidu, M, PhD <i>Annam</i> .	Lectr	Venkatachalapathy, V, MSc <i>Mys</i> .	Lectr
2 Permanent, 4 Tenure Demrs		1 Tenure Demr	
Economics			
Warria, E K, MA <i>Madr</i> , MSc <i>Lond</i>	§Prof	Hindi	
Narayana, D L, PhD <i>And</i>	Reader	Singh, V P, MA <i>Agra</i> , PhD <i>Alig</i>	§Prof
	Reader	Narasimhachari, S T, MA <i>Ban</i>	Lectr.
Prakasa Rao, M S., MA <i>And</i> , M.Litt <i>Madr</i>		Chandrabhan Rawat, MA LT PhD	Lectr.
	Lectr	1 Tenure Tutor	

* Member of the Association of Universities of the British Commonwealth

History

Rama Rao, M, MA PhD BEd	\$Piof
Ramanujam, B V., MA <i>Madr</i> , PhD <i>Annam</i>	Reader
Mythili, K L, PhD <i>Madr</i> (on leave)	Lectr
Harri Rao, V N., PhD <i>Madr</i>	Lectr
Reddy, V. M., MA <i>Ban</i>	Lectr
Rajayyan, K., MA <i>Kerala</i> , MLatt <i>Madr</i>	Lectr
1 Tenure Tutor	

Mathematics

Benerjee, D P, DSc <i>Dacca</i>	\$Prof
Subbs Rao, M V., PhD <i>Madr</i> .	Reader
Sitaram, K, MA <i>Madr</i>	Lectr
Satyanarayana, M., MA <i>And</i>	Lectr
Mahamunulu, D. M., MA <i>Madr</i>	Lectr
Rau, P S, MA <i>And</i>	Lectr
Subrahmanyam, S S, MA <i>Madr</i>	Lectr
Suryanarayana, P, MA <i>Madr</i>	Lectr
6 Temp Lectrs, 1 Tenure Tutor	

Philosophy

Parushottam, T A, MA <i>Madr</i> , PhD <i>Lond</i>	\$Prof, Principal of Univ
Varadachary, K C., PhD <i>Madr</i>	Reader
Barlingay, S S., MA PhD <i>Nag</i>	Reader
Veeraraghavan, T E, MA <i>Madr</i>	Lectr
Herbert, G S, BA <i>And</i>	Lectr
Srinivasan, G, MA	Lectr

Physics

Ramachandra Rao, S, MA PhD DSc, FIP, FNI	\$Prof.
Bhimasenachar, J, DSc <i>And</i>	Reader
Sreeramamurthy, K, DSc <i>And</i>	Reader
Sivasankara Rao, G, MSc <i>Ban</i>	Lectr
Subrahmanyam, S V, MSc PhD	Lectr
Satyanarayana, R, PhD <i>Ban</i>	Lectr
Purnachandra Rao, MSc <i>And</i> , PhD <i>Syd</i>	Lectr
Ramanatham, M., MSc	Lectr.
2 Permanent, 3 Tenure Demis	

Psychology

Parthasarathy, S, MA DipAnthropol <i>Madr</i> .	\$Prof
Narayana Rao, S, MA <i>Ban</i>	Lectr
Ramanurti, P V., MA DipAnthropol <i>Madr</i>	Lectr
Basavanna, M, MA <i>Mys</i>	Lectr.
Rama Rao, P, BSc MA	Lectr
Anantakrishnan, P, MA <i>Madr</i>	Lectr
2 Tenure Tutors	

Sanskrit

Srikrishna Sarma, E R., MA <i>Madr</i> ., PhD <i>Maburg</i>	\$Reader
Gopalaswamy Iyengar, T K., MA <i>Madr</i>	Lectr
Varadachari, V, PhD <i>Madr</i> .	Lectr
Subbs Rao, V, MA PhD BOL BEd	Lectr
1 Tenure Tutor	

Telugu

Lakshminarayana Rao, B, MA BEd	\$Reader
Chenna Reddy, J, MA <i>Madr</i> , BEd	Lectr.
Reddy, G N, MLatt <i>Madr</i>	Lectr
Balakrishna Murthy, MA <i>Madr</i>	Lectr
Mahadeva Sestry, K, MA	Lectr.
1 Temp Lectr, 1 Permanent & 1 Tenure Tutor	

Zoology

Pampapathi Rao, K., PhD DipGerman <i>Madr</i>	\$Prof
Ranga Rao, S, MA LT	Lectr.
Srinivasa Reddy, R P., BSc <i>Annam</i>	Lectr
Muthy, V. S. R., MSc <i>And</i>	Lectr
Parvatheswara Rao, V., MA <i>Madr</i>	Lectr.
Krishnakumaran, A, PhD <i>Madr</i>	Lectr
Raja Bai, K G, DSc <i>And</i>	Lectr
Satyalingaswamy, K, MA <i>Madr</i> , PhD <i>Penn</i>	Lectr
2 Permanent & 1 Tenure Demis	

UNIVERSITY COLLEGE OF ENGINEERINGSp Officer—G. Ramakrishnan, BE MSc *Mish*.**Civil Engineering**

Pratap Mowli, P, ME <i>Cale</i>	Reader
Krishna Murthy, M, ME	Lectr.
Sivalinga Pillai, K, BE <i>Mys</i>	Lectr
Venkataraman, P, BE <i>Annam</i> , ME (Power Engin.)	Lectr.

Electrical Engineering

Malaviya, K K, BSc <i>Ban</i>	Lectr
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Gopala Reddy, I, BE MTech	Lectr
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Mechanical Engineering

Ramakrishnan, G, BE MSc <i>Mish</i>	\$Prof, Sp Officer
Sundaramurthy, S., BE <i>Annam</i> , MTech	Lectr

ADMINISTRATIVE AND OTHER STAFF

Univ. Engineer : T. Srinivasa Mudali, BA BE. Univ. Dir of Phys. Educn. L. K. Govindarajulu, BA BL Med. Officer S Radhakrishnan, MB BS Warden, Univ Hostels T A

Purushottam, MA *Madr*, PhD *Lond*, Dep *Annam* Asst Librarian. M. S. Patnaik, MA
Warden B. V. Ramanujam, MA *Madr*, PhD *DipLab*

AFFILIATED COLLEGES

[Pie-Univ., BA, etc., after the name of a coll means that courses are provided there for
Pre-Univ., BA, etc.]

Arts and Science Colleges

ANANTAPUR, *Govt Arts College* Pre-Univ., Pie-Univ., BA, BSc, BCom Principal—B. Sitharamiah, MA *Madr* 32 Teachers

CUDDAPAH, *Govt Arts College* Pre-Univ., BA, BSc Principal—S. Raghavachari, MA *BT* 49 Teachers

KAVALI, *Kavali College* Pie-Univ., BA, BSc, BCom Principal—M. Pattabhirama Reddy, MA 36 Teachers

KURNOOL, *K. V. Reddy Govt College for Women* Pre-Univ., BA, BSc Principal—Miss K. Nathaniel, MA *LT* 38 Teachers

KURNOOL, *Osmania College* Pre-Univ., BA, BSc Principal—M. Habibur Rahman, MA *BT* 47 Teachers

MADANAPALLE, *Besant Theosophical College*

TIRUPATI, *S. P. College for Women* Pre-Univ., BA, BSc Principal—Mrs. K. Rajeswari Murthy, MA *Madr* 31 Teachers

TIRUPATI, *S. V. College for Men* Pre-Univ., Pre-Professional in Agric., Vet. Sci., BA, BCom Principal—Y. V. Ramana, MA *BEd* 63 Teachers

TIRUPATI, *S. V. College for Music & Dance* BMus, Sangitha Visiada Title in Music, Natya Visiada Title in Dancing. Visiting Prof.—P. Samba Moorthy, BA *BL* 7 Teachers.

Training Colleges

KURNOOL, *Govt Training College* BEd, MEd Principal—L. Bullayya, MA *BEd* 17 Teachers

NELLORE, *Govt Training College* BEd Principal—S. Gopalakrishnamoorthy, DSc *Madr* 13 Teachers

Engineering College

ANANTAPUR, *College of Engineering* BE. Principal—V. V. L. Rao, DIC, BE 42 Teachers

Medical Colleges

KURNOOL, *Kurnool Medical College* MB BS, MD, MS, MSc, DLO, DO, DCH, DCP, DGO Principal—K. Ramesh Pai, MB MS, FRCS 70 Teachers

TIRUPATI, *S. V. Medical College* MB BS, Principal—C. Venkatasamah, MB BS MSc 8 Teachers

Veterinary College

TIRUPATI, *Andhra Veterinary College* BVSc Principal—P. S. Rajulu, BVSc MS. 36 Teachers.

ORIENTAL COLLEGES

KURNOOL, *Islamia Arabic College* Afzal-ul-Ulama, Adib-i-Fazil, Tabib-i-Kamil Principal—Moulvi Alhaj Syed Zahurullah Hussaini Sahib 9 Teachers

RAYADURU, *Jamia Mohammadiya Arabic College* Munshi-i-Fazil Vice-Principal—M. S. Abbas 4 Teachers

NELLORE, *Veda and Sanskrit College* Vidwan. Principal—U. Subbaramaiah. 8 Teachers

TIRUPATI, *Sri Venkateswara Oriental College* Siromani, Vidwan. Principal—Y. V. Ramana, MA *BEd* 16 Teachers.

GENERAL INFORMATION

The Univ. was established in Sept. 1954 as a teaching and residential Univ. It is now also affiliating, its jurisdiction extending over the

districts of Anantapur, Cuddapah, Kurnool, Chittoor and Nellore in the state of Andhra Pradesh.

The Univ. derives its name from the deity Lord Venkateswara, nr whose shrine it is located

In the Univ. College of Arts & Scis., Tirupati, courses are provided in univ depts. of Arabic, Persian & Urdu, bot., chem., econ., Engl., geol., Hindi, hist., maths, philos., phys., psychol., Sanskrit, Telugu and zool., leading to pass, postgrad. and res degrees

The Univ. Coll. of Engin., Tirupati, was started in 1959 and provides instructn for BE degree.

CONSTITUTION. The chancellor is pres. of the senate, the supreme governing body of the univ. Executive powers are vested in the syndicate, of which the vice-chancellor is chairman. Other authorities of the univ are the academic council, the facs. and the bds. of studies.

INCOME (1959-60) Rs 6,359,739 (govt grants, Rs 3,171,500, fees, Rs 752,602; other sources, Rs 2,435,637)

FACULTIES AND DEANS *Agric.*, . . . , *arts*, Prof T A Purushottam (philos.), *comm.*, *engin.*, Prof G Ramakrishnan (mech. engin.), *fine arts*, B Gopala Reddy, *med.*, Principal C Venkatramiah, *oriental learning*, . . . , *sci.*, Prof S Ramachandra Rao (phys.), *teaching*, Principal S Gopalakrishnamoorthy, *vet sci.*, Principal P S Rajulu

LIBRARY. Univ library, 27,798 vols

LABORATORIES The sci depts have been moved into new lab bldgs

TEACHING HOSPITAL Kurnool General H., Kurnool, for grad. courses in med

ADMISSION Candidates passing the matric exam of the univ or secondary sch leaving cert exam conducted by the state govt or any exam recog as equivalent thereto are eligible for admission to the pre-univ course of study, Sangitha Visarada title course in music and Natya Visarada title course in dancing. Successful candidates in the pre-univ. exam and higher secondary sch leaving cert exam conducted by the state govt are admitted to pre-professnl courses, leading to professnl degrees, and also to the 3-yr courses for BA, BSc, BCom, BMus. For admission to music and dance courses students should have taken music or dance as a suby of study in the qualifying exam

FIRST DEGREES BA, BSc, BCom, BMus—3 yrs after pre-univ, BE—5 yrs after pre-univ, BVSc—4 yrs. after pre-professnl, MB BS—6 yrs after pre-univ. Pre-professnl. is taken 1 yr after pre-univ

In evening courses, BA—4 yrs. after pre-univ, pre-univ.—2 yrs after matric.

HIGHER DEGREES. BED, 1 yr. after 1st degree,

MEd, 1 yr after BED; MA (by efflux of time without any further exam) after BA (hons.) and BSc (hons.), MA, MSc, 2 yrs after BA, BSc, MD, MS, MSc, 2 yrs after MB BS, PhD, 2 yrs after MA, MSc, DLatt, DSc, 2 yrs after PhD

DIPLOMAS Postgrad dipls in med & surg DLO, DCH, DCP, DGO, DO—1 yr after MB BS. *

ORIENTAL TITLES. Afzal-ul-Ulama, Adib-i-Fazil, Tabib-i-Kamil, Munshi-i-Fazil, Siromani and Vidwan—4 yrs. after prescribed entrance test or matric.

RESEARCH. PhD degree (common to arts & sci) may be taken in Arabic, Persian & Urdu, bot., chem., econ., Engl., geol., Hindi, hist., maths, philos., phys., psychol., Sanskrit, Telugu and zool. DLatt (on the arts side) and DSc (on the sci. side) may be taken by submitting theses 2 yrs after having qualified for PhD. The univ maintains a res inst for sp. study and res in indology.

STUDY LEAVE The syndicate may grant study leave to teachers of the univ. or send them on deputation as occasion arises on such terms as may seem necessary in each case

FEES Postgrad courses, Rs 240 p.a., pass courses, Rs 186 p.a., res courses, Rs 120 p.a

ACADEMIC YEAR June to April, 3 terms June 15 to Sept. 16, Oct 3 to Dec 6, Jan 2 to April 4

LANGUAGE OF INSTRUCTION at present is English

SCHOLARSHIPS. Maintenance allowance of Rs 25 p.m. granted to eligible students of 3-yr. degree courses in addition to the fee concessions granted by the univ and govt. 2 studentships each of value of Rs 50 p.m. available in each of the Telugu and Sanskrit depts. and one studentship each in the remaining depts. In addition, one full-fee scholp or 2 half-fee scholps. available in each dept. Except in cases where U.G.C. provides res scholps. each dept is allotted one res. scholp of monthly value of Rs 50 in 1st yr., Rs 80 in 2nd yr. and Rs 100 in 3rd yr. Besides these, endowment scholps also available for students of pass, postgrad. and res. courses.

STUDENT RESIDENCE Univ. hostel, consisting of 6 blocks, has accomm for 560 students

STAFF RESIDENCES Six staff quarters for profs of the univ. 12 quarters each for readers and lectrs.

PUBLICATIONS *Laws of the Univ.* (1960), *Annual Report*, *College Magazine*, *Oriental Journal*, *College Calendar*, *Registered Graduates List*, *Minutes*

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS *Bldgs. completed*. 6 quarters each for readers and lectrs ; 2 hostel blocks, 4 dep warden's quarters *Approaching completion* : 2 hostel blocks, 2 dining halls and 2 kitchens, temp sheds for engin. coll.

RESIGNATIONS M Alkondan (chem), apptd vice-principal, M C C. Coll, Pollachi, E Nageswara Rao (Engl), apptd asst prof, Agric Univ, Naini Tal, K Sundaresan (maths), apptd reader, Karn, B Rameswara Rao (maths), apptd reader, P S G Arts Coll, Peelamedu

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	7844	51
Women	888	1
Total	8732	52

Distribution by Faculties *Agric*, 73, *arts*, 5016; *comm*, 208, *educn*, 233; *engin*, 646, *fine arts*, 39, *med*, 419; *oriental learning*, 154, *scis*, 1556, *vet. sci*, 440 Total 8784

Included in the figures above are :—

Pre-University students, 3090

Pre-Professional students, 535

Postgraduate students, 334

New admissions, 5019

Students from other countries, nil

DEGREES AWARDED (1959-60). *Arts*, BA, 626, BA (hons), 44, MA, 32, MA (hons), 4, *Comm* : BCom, 38 *Educn* : BEd, 165. *Engin.* : BE, 83 *Sci* : BSc, 112, BSc (hons.), 25, MSc, 10 *Vet sci* : BVSc, 30 *Total number of first degrees awarded*, 958

CERTIFICATES AWARDED (1959-60) *Inter*, 146, *pie-univ*, 1100; *pre-professnl*, 392

ORIENTAL TITLES AWARDED (1959-60) 56

UTKAL UNIVERSITY*

Founded 1943

Postal Address . Cuttack 1, Orissa, India
Cables and Telegrams . University, Cuttack
Telephone (Registrar) : Cuttack 193

CHANCELLOR—Y. N. SUKTHANKAR, MA LLB *Camb*

PRO-CHANCELLOR—PANDIT N. DAS, MA DLitt

VICE-CHANCELLOR—Col.-Commandant P. P. PARIJA, OBE, MA *Camb*, DSc *Patna & Utkal*, FNI

REGISTRAR—G. C. RATH, MA *Madr.*, DipLibSc

ASSISTANT REGISTRAR—D. P. BARAI, MA DipEd

UNIVERSITY TEACHING DEPARTMENTS

[† = Part-Time]

[§ = Attached to Ravenshaw College, Cuttack]

Anthropology		Psychology §	
Aiyappan, A., MA PhD <i>Lond.</i> 2 Lectrs		Prof. Rath, R., MA PhD <i>Lond</i> 2 Lectrs	Prof
Geology §		Rural Economics and Sociology	
Dey, A. K., DIC, PhD <i>Lond</i> Satapathy, N., DSc <i>And.</i> 6 Lectrs.		Prof Reader Misra, B., MA PhD <i>Lond</i> Sharma, Miss Jyotirmayee, MA PhD <i>Chic.</i>	Prof Reader
History §		Sanskrit	
Das, M. N., MA PhD <i>Lond.</i> 2 Lectrs.		Reader Pradhan, P., MA Swain, A., MA PhD <i>Harv.</i> 2 Lectrs.	Prof Reader
Modern European Languages		Statistics §	
Sinha Ray, P., DipLSc <i>Calc.</i> , MA DipFrench	Lectr.-in-Charge	Prof. Das, S. C., MA 2 Lectrs †	Prof
Philosophy		Zoology	
Misra, G., MA PhD <i>Lond</i> 3 Lectrs.		Reader Behura, B., MSc PhD <i>Lond</i> Kanungo, M., MSc PhD <i>Chic</i>	Prof Reader
Political Science §			
Rao, K. V., MA DLitt 2 Lectrs			

COLLEGES OF THE UNIVERSITY

[LLB, BSc(Engn), etc., after the name of a coll means that courses are provided there for LLB, BSc(Engn), etc.]

CUTTACK, *Madhusudan Law College* (transferred to Univ by Govt of Orissa in 1949) of Law—K. Satyanarayana Murthy, BA *Madr.* & LLB. Prof *And*, ML *Madr.* 1 Lectr, 6 Lectrs †

* Member of the Association of Universities of the British Commonwealth

SAMBALPUR, *University College of Engineering*, Burla (founded 1956) (tel. Burla 11A). Principal—B. Prasad, BSc *Manc.*, MSc BL, MIE (India). CHEM—S. Pani, MSc PhD Lond, Reader, CIVIL ENGIN.—B. Behera, MSc Iowa,

MIE, Prof., MATHS.—J. N. Panda, MSc, Reader, MECH. ENGIN.—B. Mohapatra, MSc Tor., BE, Reader, PHYS.—B. B. Banerjee, MSc Calc., Reader, 50 Lectrs

AFFILIATED COLLEGES

ANGUL (DHENKANAL), *Gout. Training College* (founded 1955). BEd Principal & Admin Officer—S. Nath, MA Lond. Teaching staff S. Das, DipEd Patna, MA and 7 other Lectrs

ANGUL, *Intermediate Science College* (1958) ISC Principal & Admin Officer—C. M. Bastia, MSc

BALASORE, *Faku Mohan College* (1944) (tel. Balasore 18) BA, ISC Principal & Admin Officer—M. A. John, MA. Teaching staff BOT—L. M. Sircar, MSc, CHEM—K. C. Dash, MSc, ECON—S. V. Ramayya, MA, ENGL—P. C. Pattnaik, MA, HINDI—S. N. S. Yadav, MA, HIST—P. K. Patra, MA, MATHS—M. Das, MA, PHILOS.—G. B. Kamungo, MA PhD Chic., PHYS—R. L. Banerjee, MSc, SANSK AND ORIYA—B. Jena, MA, ZOOL—Principal M. A. John, MA 15 other Lectrs

BALASORE, *Women's College* Principal & Admin Officer—K. C. Day, MA

BARIPADA (MAYURBHANJ), *Maharaja Purna Chandra College* (1948) (tel. Baripada 24) BA, ISC Principal & Admin Officer—J. Mohanty, MA. Teaching staff BIOL.—S. N. Mitra, MSc, CHEM—N. C. Das, MSc, ECON—R. C. Pattnaik, MA, ENGL—T. E. Jayaraman, MA, HIST—J. Pattnaik, MA, MATHS—B. S. K. R. Somayajulu, MA, PHYS—T. Misra, MSc, SANSK—R. M. Mahapatra, MA, ORIYA—B. Rout, MA, ZOOL—U. C. Panda, MSc, LOGIC—S. K. Nanda, MA, HINDI—C. S. K. Jain, MA 13 other Lectrs.

BERHAMPUR (GANJAM), *Gout Women's College* (1958) IA Principal & Admin Officer—Miss Premalata Behera, MA DipHS Delhi 5 other Lectrs

BERHAMPUR (GANJAM), *Khallikote College* (1878) (tel. Berhampur 67) BA, BSc, BCom Principal & Admin Officer—N. Padhi, MA Calc, LT *Mad* Teaching staff CHEM—P. V. Jagannadha Row, MSc BEd, COMM—G. Panda, MCom, ECON—N. Padhi, MA Calc, LT *Mad*; ENGL—S. Krishna, MA, HIST—M. Basiston, MA; MATHS—K. N. Sundaresan, BA And; PHILOS.—C. Sitaramaiah, BA And, PHYS—K. V. Iyer, BA *Mad*, SANSK AND ORIYA—C. M. Das, MA, TELUGU—V. N. Sastry, HINDI—M. Bhatt 24 other Lectrs.

BHADRAK (BALASORE), *Bhadra College* (1948) ISC, BA Principal & Admin Officer—B. B. Rakshit, MA. Teaching staff. CHEM—A. M. G. Hosnani, MSc; ECON—S. Mohanty, MA, ENGL—M. Radhakrishna, MA, HIST—S. K.

Ray Choudhury, MA, HINDI—R. Singh, MA; LOGIC—A. K. Nandi, MA, MATHS—D. Panda, MA, PHYS—M. Asfar, MSc, SANSK—P. N. Banerjee, MA, ORIYA—K. C. Behera, MA; URDU—M. A. Kakovi, MA 14 other Lectrs

BHUBANESWAR, *Buni Jagabandhu Bidyadhar College* (1957) ISC Principal & Admin Officer—R. C. Rajguru, MSc. Teaching staff BIOL—Md. Zafarullah, MSc, CHEM—N. K. Das, MSc, ECON—S. N. Misra, MA, ENGL—J. Patel, MA, HIST—P. K. Pattnaik, MA, MATHS—U. Mahapatra, MA, ORIYA—B. Mohanty, MA PHILOS.—K. P. Misra, MA, PHYS.—R. C. Rajguru, MSc 15 other Lectrs.

BHUBANESWAR (ORISSA), *Utkal Kushi Mahavidyalaya* (1954) Bag Principal—D. Misra, Bag *Nag*, DipAgric Camb. Teaching staff. AGRIC ECON—H. K. Das Gupta, MSc(Ag), AGRIC ENGIN—J. Padhi, BSc(AgEng), AGRIC EXTN—L. Misra, BSc(Ag) MS *Misc*, AGRON—B. N. Sahu, MS PhD *Mech*, ANIMAL HUSB—U. C. Pattnaik, MSc(Ag), BOT—B. Patra, MSc Calc, PhD *Dub*, CHEM—P. C. Ghosh, MSc, ENGL—B. Sahu, MA, HORIC—S. N. Bhoi, MSc(Hort) Calif, BScAg, MYCOL—N. N. Mohanty, MSc(Ag), PHYS—A. K. Mahapatra, MSc, VIT sci—P. K. Harichandan, BVSc, ZOOL—G. C. Sengupta, BSc(Ag) 23 other Lectrs.

BOLANGIR (BOLANGIR PATNA), *Rajendra College* (1943) ICom, BA Principal & Admin Officer—D. N. Dutt, MA BL. Teaching staff COMM—R. K. Sahany, MACOM LLB, ECON—P. K. Puri, MA, ENGL—B. J. B. Mohapatra, MA; HIST—J. K. Dwivedi, MA, MATHS—M. K. Wadikhaya, MSc, ORIYA—K. M. Mahapatra, MA, PHILOS—A. Manan, MA, SANSK—Pdt. S. Das Sharma 4 other Lectrs

CUTTACK, *Christ College* (1944) (tel. Cuttack 213) BA Principal & Admin Officer—B. Mohanty, MA BL *Calc* Teaching staff ECON—V. Subhramanyam, MA, ENGL—S. R. Banerji, MA, HIST—S. C. Behera, MA, MATHS—M. N. Ray, MSc, ORIYA—S. Das, MA DipEdn Patna, PHILOS—S. R. Mukherjee, MA, SANSK—R. Sarangi, MA, HINDI—S. C. Nanda, MA 5 other Lectrs

CUTTACK, *Kenthiapasa* (1960) Principal & Admin Officer—B. Pradhan, MA

CUTTACK, *Radhamathi Training College* (1923) (tel. Cuttack 275) BEd. Principal & Admin Officer—B. N. Rath, MA Lond 5 other Lectrs

CUTTACK, *Ravenshaw College* (1868) (tel. Cuttack 56). IA, ISc, ICom, BA and BSc (pass and hon), MA, MSc Principal & Admin Officer—S. Misra, MA PhD Lond Teaching staff. BENGALI—V N Mukherjee, MA, BOT—B Samantara, DIC, BL MSc PhD Lond., CHEM—D. Patnaik, DIC, MSc PhD Camb.; COMM—P C Roy, MA; ECON—D C. Misra, AM PhD Harv., MA, EDUCN—G K Mohanty, DipEd Brit., MA, ENGL—A P. O'Brien, MA BL DPhil Calc.; GEOG.—M. M. Hasan, MA Alg., Med Patna, GEOL—A. K. Dey, DIC, PhD Lond., HIST.—P Mukherjee, MA DipEd, HINDI—H. M. P. Srivastab, MA, MATHS.—R N Mohanty, MSc PhD Lond.; ORIYA AND SANSK.—K. B. Tripathy, MA BL PhD Lond.; PHILOS.—S. K. Chhatopadhyaya, MA; PHYS.—A. K. Dutta, DSc Dacca; POL SCI—K. V Rao, MA DLatt; PSYCHOL.—R. Rath, MA PhD Lond.; STATS.—S. C. Das, MA, URDU AND PERSIAN—S M Hassan, MA MEd; ZOOL.—B. Behura, MSc PhD Lond. 110 other Profs and Lectrs.

CUTTACK, *Satibala Women's College* (1915) (tel. Cuttack 264) BA Lady Principal & Admin Officer—Miss Roma De, MA Teaching staff. BENGALI—Miss Renu Ghosh, MA, DOM SCI.—Basanti Mohapatra, BA DipEd; ECON—Miss Debabala Ray, MA; ENGL—Mrs Urmila Das, MA, HIST.—Mrs M Das, MA, HINDI—Mrs Malati Upadhyaya, MA, MATHS—Miss Rama De, MA, ORIYA—Miss Santilata Behara, MA, PHILOS—Mrs Uma Misra, MA, SANSK.—Miss Sovi Roy, MA 9 other Lectrs.

CUTTACK, *Sri Ramchandra Bhang Medical College* (1949) (tel. Cuttack 239). MB BS Principal & Admin. Officer—R. Mahanti, MB BS BSc Tor. Teaching staff ANAESTH—G. Mohapatra, MB BS DA; ANAT.—R K. Mahanti, BSc Tor, MB BS, DENTAL SURG.—G. Patnaik; EAR, NOSE AND THROAT—G. N. Das, MB BS DLO, FORENSIC MED—G. P. Mohanty, MB DTM&H DCP Lond, PhD; MED.—R. N. Sahu, MB BS Patna, DCH Lond, MRCP, MIDW.—Mrs. Jyotsna Dei, MB BS, OPHTHALMOL.—M. C. Mishra, MB BS DOMS; PATHOL.—A. M. Tripathy, PhD Belf., DMR Madr., MB BS, FRFPGlas, PHARM.—K. N. Ojha, MD PhD; PHYSIOL.—R. K. Das, MB BS PhD Lond.; RADIOLOG.—G. B. Mohanty, MB BS DMRD; SKIN AND VENEREAL DISEASES—K. C. Sahu, MB BS DPH Lond, DCH Dub, DTM&H Liv., soc. AND PREV MED—R. G. Panigrahi, MB BS DPH Calc, MPH Harv., DTM&H Lond, SURG—G. S. Dasgohapatra, MS Patna, FRCSed. 56 other Profs, Asst. Profs and Lectrs.

CUTTACK, *Stewart Science College* (1944) (tel. Cuttack 268). ISc Principal & Admin Officer—S M Das, MSc Teaching staff. CHEM—S K Mukherjee; ENGIN—N K Pujabari, MA, MATHS—S M Das, ORIYA—R N Dasjwa, MA, PHYS—K N Ghoshal, MSc 18 other Lectrs.

JAIPUR (CUTTACK), *Narsingha Choudhury College* (1946) IA Principal & Admin Officer—K P A Pillai, MA 7 other Lectrs.

JEYPORE (KORAPUT), *Vikram Deb College* (1947). IA, ISc Principal & Admin Officer—P N Chatreejee, MSc DPhil 13 Lectrs

KEONJHAR, *Intermediate Science College* (1957) ISc. Principal & Admin Officer—P. K. Pati, MA. 10 other Lectrs

ORISSA, *College of Veterinary Science and Animal Husbandry* (1955) BVSc&AH Principal & Admin. Officer—B. N. Patra, BSc Teaching staff ANAT.—J. N. Prusty, ANIMAL HUSB—K. N. Mahapatra, BACTERIOL—J. Das, BIOL—P D. Das, MSc; GYN&EOL.—B. B. Mohanty, MAT MED. AND THERAPEUTICS—A. Mishra, BVSc, MED—S K Mishra, BVSc, PHYSIO—N Patnaik, SURG—B N Patra 29 other Lectrs & Insitrs.

PARLAKIMEDI (GANJAM), *Sri Krishna Chandra Gayapati College* (1886) BA, ISc Principal & Admin Officer—A. C. Bir, MSc. Teaching staff. BOT—P S Rao, MSc, CHEM—S K Acharya, MSc, ECON—N Mohapatra; ENGL—K C Deb, MA, HIST—P K Misra, MA, MATHS.—A Dash, MA, ORIYA—S Hota, MA; LOGIC—R N Bhattacharya, MA, ZOOL.—S Pati, MSc, PHYS—S Panda, MSc, HINDI—K Prasad, MA 8 other Lectrs.

PURI, *Khurda College*, Khurda Principal & Admin Officer—B K Mohapatra, MA.

PURI, *Samanta Chandra Sekhar College* (1944) (tel. Puri 55) BA, ISc. Principal & Admin Officer—D Misra, MA Patna, AM Col, PhD Teaching staff BOT.—K. L. Parthasarathi, MSc, CHEM—K Senapati, MSc, ECON—K P Nigum, MA; ENGL.—S S Das, MA, HIST—U. C. Misra, MA; MATHS—Capt G P Mohanty, MA, ORIYA AND SANSK—G B Dhal, MA Lond, PHILOS.—H L Debnath, MA, PHYS—H M Patnaik, MSc, POL SCI—C Das, MA, ZOOL—N Mahapatra, MSc 29 other Lectrs

SAMBALPUR, *Gangadhar Meher College* (1944) (tel. Sambalpur 13). BA, BCom, ISc. Offg Principal & Admin. Officer—S K Panda, MA Teaching staff BOT.—S Nayak, MSc, CHEM—P. C. Brahma, MSc; COMM.—S K Das, MCom PhD; ECON—D D Jena, MA; ENGL.—M K Chakravarty, MA, MATHS.—S P Misra, MSc, ORIYA—B. Nanda, MA, PHILOS—P Rath, MA, PHYS.—J Mohapatra, MSc, ZOOL—P N. Chatterjee, MSc PhD 31 Asst Profs and Lectrs

SAMBALPUR, *S G B Medical College Extension* (1959) MB BS Principal & Admin Officer—R N. Misra, MB BS, FRCS Teaching staff MED—G S Mohapatra, DTM&H Lond, MB BS, MRCPed, OPHTHALMOL—B Raguru, PATHOL—G P Mohanty, MB BS DTM&H DCP PhD; PHARM—J K Mahanty, MD ChB NZ, MB BS, PHYSIOL.—R. N. Sen, MB BS DPhil 7 other Lectrs.

SAMBALPUR, *Women's College* (1959). IA. Principal & Admin Officer—Miss Asha Mittra, MA BT 5 other Lectrs

SUNDERGARH, *Intermediate Science College* (1958). ISc. Principal & Admin Officer—P. K. Das, MSc.

GENERAL INFORMATION

After the separation of Orissa from Bihar and the creation of a new province of Orissa in April 1936 there was a strong desire among the leaders of the province for the establishment of a sep univ in Orissa. In 1942 a cttee. was formed, with Pandit Godavarish Misra, then Minister of Education, Orissa, as president, to frame and draft the univ. bill, which, after being passed in the Orissa legislative assembly, received the assent of the governor of Orissa on Nov 23, 1943. From that date Utkal Univ. came into being under the Utkal Univ. Act, 1943 (Orissa Act XIII of 1943).

CONSTITUTION The univ authorities are the senate, the supreme governing body of the univ, the syndicate, the univ executive body, the academic council, which deals with academic matters only, and the matric bd. Other statutory bodies are the fcs and bds of studies.

INCOME (1959-60). Total Rs 3,863,008

FACULTIES AND DEANS *Agric.*, Dr B N Sahu, *arts*, Dr A B Mohanty, *comm.*, B C Das, *educn.*, B N Rath, *engin.*, Principal B Prasad, *law*, Hon Justice H Mohapatra, *med.*, K N Misra, *sci.*, Dr R. N. Mohanty, *vet sci & animal husb.*, Dr G Biswal

UNIVERSITY PRECINCT. The univ is locating its campus at Bhubaneswar new capital. Construction work has started on the arts block, hostels, staff quarters, and plans and estimates of other bldgs. are in preparation. Burdwan House, with about 2 acres of land, was purchased by the univ. from the Maharajahdiraj of Burdwan and the univ. library, the depts of rural econ. & social, Oriya encyclopaedia, dipl classes in foreign langs and postgrad depts in philos and Sansk. are located there. Steps have been taken to construct bldgs for the M S Law Coll and hostels of the univ. near the present library bldgs.

LIBRARY. 33,866 vols., 2110 periodicals, 1330 calendars, prospectuses, etc., of other univs, 1201 palm-leaf MSS.

ADMISSION to univ. inter courses is by one of the following exams recognized as equivalent to the former matric exam of the univ.: matric exam., or equivalent, of any univ in India constituted by an act of provincial or central legislature, S.S.L.C. exam conducted by Madras and Andhra S.S.L.C. bds., exam for Indian army spec. cert of educn., Indian air force matric test; higher educn. test of Indian navy; sr sch. cert. exam of govt. of Ceylon, sr Cambridge sch. cert exam., high sch. exam. of bd. of sec. educn., Madhya Bharat, Gwalior, S.S.L.C. exam. of sec educn bd, Mysore; high sch. exam. of bd of high sch and inter educn., Rajputana, Bombay sch. cert exam of sec sch. cert exam. of govt. of Bombay, high sch. exam. of bd of high sch and inter educn., Uttar Pradesh, Allahabad; Vidya Vinodini exam. with advanced Engl. and maths. of Prayag Mahila

Vidyapitha, Allahabad; high sch exam of central bd. of sec. educn., Ajmer; British civil services commission forces prelim exam., sec sch. exam. of the Bihar sch exam. bd, Patna, sch final exam. of the bd of sec. educn., W. Bengal

FIRST DEGREES. 2 yrs.—BA (pass), BA (hons.), BSc (pass), BSc (hons.), BCom, BSc(Eng), BAg; 3-yr degree course started from 1960-61; 4 yrs.—BVSce, 5 yrs.—MB BS. BOL: no teaching provision made; exam. open to eligible private candidates who are teachers.

HIGHER DEGREES 1 yr.—BEd, 2 yrs.—MA, MSc (after BSc), MEd, LLB, LLM (for private candidates only); by thesis only—PhD, DLitt, DSc.

MA may be taken in econ., Engl, hist, maths, Oriya, philos, Sansk. Postgrad classes have also been started in anthropol, hist, pol sci, psychol., statistics. MSc may be taken in bot, chem, geol & mineral, maths, phys, zool

DIPLOMAS Mod. European langs. (French & German), 2 yrs; statistics, foreign affairs, 1 yr

CERTIFICATE Mod European langs. (French & German), 1 yr

RESEARCH. In order to promote study and res. in different branches of knowledge the senate has constituted a Jnan Vijnan Parishad for giving monetary aid for schemes of res. submitted by teachers of the univ

COLLEGE FEES (per month) Inter (arts and comm), Rs. 8; inter (sci), Rs. 9, BA (pass), Rs. 9, BA (hons), Rs. 10; BSc (pass), Rs. 10; BSc (hons), Rs. 11, BCom, Rs. 9; LLB (pt I), Rs. 14, LLB (pt II), Rs. 14; MA, Rs. 12; MSc, Rs. 14; dipl and cert in French and German, Rs. 5 per sub

ACADEMIC YEAR July to April: 2 terms. Term dates (approx) July 16 to Dec 21; Jan 2 to April 30

The usual **LANGUAGE OF INSTRUCTION** is English.

EXTENSION LECTURES The univ invites specialists to address the staff and students. The lectures are both general and specialized and are sometimes delivered in affiliated colls

RESIDENCE. 38 hostels, providing accomm. for 2008 men and women. Fees vary according to hostel. Also 2 hostels for MS Law Coll with accomm for 51 students, both hostels directly under control and management of the univ.

ATHLETIC FACILITIES. Intercollegiate games and sports organized by cttee. apptd. by syndicate

STUDENTS' INFORMATION BUREAU, Cuttack 1. Furnishes information to students regarding Indian & foreign univs. and other educn. instns. and helps grads. to secure admission to univs., etc., in foreign countries

WORLD UNIVERSITY SERVICE BRANCH The objects of the branch are : mutual help, mutual educn. and mutual understanding Monetary help is rendered to needy students for exam fees and purchase of books Two hostels, 1 for men and 1 for women, have been establd.

NATIONAL CADET CORPS 1st Oriassa battalion, N.C.C., has 1 sr div for colls in Cuttack and 9 jr divs for other univ colls

PUBLICATIONS. Annual *Calendar* (vol. I, Rs 5, vol II, Rs 7), *Financial Estimate* (free), *Annual Report* (free), *Exam Syllabuses* (various prices) Occasional *Regulations* (Rs 2 8), *Statutes* (Rs 2 8), *Text Books* (various prices)

UNIVERSITY PRESS In 1949 the Maharaja of Mayurbhanj gifted the entire Mayurbhanj state press and press bldg to the univ The press is managed by a cttee constituted by the syndicate and is located at Cuttack

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	12,284	—
Women	1,412	—
Total	13,696	—

Distribution by Faculties, etc *Agric*, 391; *arts*, 6092, *comm*, 493, *educn.*, 169; *engin.*, 451, *law*, 332, *med.*, 649; *sci*, 4931, *vet sci* & *animal husb.*, 208 Total 13,736.

Included in the figures above are —

Postgraduate students, 914

Students from other countries, nil

DEGREES AWARDED (1959-60) BA, 983, BA (hons), 168; BSc, 151; BSc (hons), 86; BCom, 111, BOL, 6, LLB, 55, MBBS, 24, BSc(Ag), 35; BVSc, 32, BSc(Eng), 48, MEd, 9, MA, 136, MSc, 34, PhD (all facs.). 5. Total number of first degrees awarded, 1644

VIKRAM UNIVERSITY*

Founded 1957

Postal Address University Road, Ujjain, Madhya Pradesh, India

Cables and Telegrams University Ujjain

Telephone Ujjain 30

CHANCELLOR—SHRI H V PATASKAR, BA LLB, Governor of Madhya Pradesh

VICE-CHANCELLOR—G L DATTA, MA PhD

REGISTRAR—G D. WIDHANI, MA

TREASURER—L B SETHI

UNIVERSITY TEACHING STAFF

Ancient Indian History and Culture		Bhargava, G D, MA DipLibSc	Lectr.
Gyani, S D, MA PhD	Reader, Hd of Dept	Agarwal, S L, MA DipLibSc	Lectr
Mittal, A C, MA PhD	Reader		
Roy, B P, MA	Lectr		
Botany		Mathematics and Statistics	
Das, R R, MSc	Lectr	Ramchandran, R, MSc PhD	Lectr
		Singh, Jokhan	Lectr.
Chemistry		Physics	
Bhagwat, W V, DSc	Prof, Hd of Dept	Dubey, V S, MSc PhD	Reader, Hd of Dept
Geology		Shrivastava, B D, MSc	Lectr
Chatterjee, S C, DSc	Prof, Hd of Dept		
Subbarao, S	Lectr	Zoology	
Shrivastava, S K	Lectr	Swaroop, H, MSc PhD DPhil	Prof, Hd of Dept
Library Science		John, P N, MSc	Lectr.
Banerjee, P K, MA DipLibSc	Lectr, Hd of Dept	Bahadur, J, MSc DPhil	Lectr

ADMINISTRATIVE AND OTHER STAFF

Assistant Registrars Admin—V M Desai, MA, Accounts—S C Seth, MA, Exams—V Shankaran, MA, Development—B R B Mathur, MA LT Officer-in-Charge Statistics. G S Gautam, MA MCom Curator M S. Katre, MA Univ. Engineer H S Shrivastava

CONSTITUENT COLLEGES

[† = Part-Time, BA, BSc, etc., after the name of a coll means that courses are provided there for BA, BSc, etc.]

BIOPAL, Govt Hamidia College of Arts and Commerce Founded 1946, managed by govt BA, BCom, MA, MCom, LLB Principal—P C Malhotra, MA Hds of Depts : ARABIC—O I Mohammad Arab, MA, Asst Prof, COMM—S R Pathak, MA PhD, Prof, ECON—P C Malhotra, MA, GEOL—S C Varma, HRS—K S Lal, MA DPhil, Prof; LAW—P L Shrivastava, BA LLB, Sr Lectr; POL SCI—R P Pandey, MA PhD, Prof, SANSK—P N Kawthekar, MA PhD, Asst. Prof, URDU—G C Jain, MA DPhil, Prof Other staff 4 Sr Lectrs, 43 Lectrs
BIOPAL, Motilal Vigyan Mahavidyalaya F. 1961, govt BSc, MSc, PhD (in sci.) Principal—M. S Rao, MSc PhD Hds of Depts. : CHEM.—H P Agrawal, MSc PhD, Prof, MATHS—P R Khandekar, MSc, Prof, PHYS—B R Sen, DIC, MSc PhD Lond, Prof Other staff: 10 Asst Profs., 22 Lectrs

* Member of the Association of Universities of the British Commonwealth

BHOPAL, *Postgraduate Basic Training College* F 1955; govt BEd(Basic), MEd, PhD Principal—G Chaurasia, MA LLB DEd Hds of Depts. EDUCNL EXPER. PSYCHOL—P N Agrihotri, MA MEd, Prof., PHILOS of EDUCN—N. L. Vaidya, DipEd Lond, MA BT, Prof Other staff 1 Prof, 6 Lectrs, 1 Phys Trg Instr, 6 Instrs

DEWAS, *Postgraduate Basic Training College* F 1949, govt BEd(Basic), MEd, PhD Principal—Mrs. Florence Chaudhari, MEd. Other staff 3 Jr. Profs, 5 Lectrs, 2 Instrs

GWALIOR, *College of Agriculture* F 1950, govt BSc(Agr), MSc(Agr) Principal—R S Bhatt, MSc PhD. Hds of Depts AGRIC CHEM—B P Motiramani, MSc PhD, AGRIC EXTENSION—D K Shaima, MSc(Agr), Prof; BOT—L Joshi, MSc(Agr), Prof Other staff 3 Jr Profs, 19 Lectrs, 2 Insts/St Lectrs, 1 Phys Trg Instr, 1 Sr Demr, 5 Demrs

GWALIOR, *Ganga Raja Medical College* F 1946, govt MB BS, MD, MS, DMRE, DGO, DPH Principal—B N B Rao, BSc MB BS, FRCS Profs ANAT—I P Agarwal, BSc MB MS, MED—P N Laha, MD, MRCP, OBSTET AND GYNACOL—Mrs Indira N Bhonsle, MD BS, OPHTHALMOL—A H Firdausi, MB BS Luck, LO Madr, DO Oron, PATHOL AND BACTERIOL—B P Saxena, MD PhD, PHARMACOL—S L Aglawal, MD, PHYSIOL—N P Benawari, MD, RADIOLOG—K C Majumuria, MB BS DMR, SOC AND PREV MED—(Offg) C M S Siddhu, MD DPH, SURG—B N B Rao, BSc MB BS, FRCS Other staff 7 Asst Profs, 7 Readers, 22 Lectrs, 25 Demrs, 3 Asst Surgeons, 1 Health Officer

GWALIOR, *Govt Science College* F 1961, govt BSc, MSc, PhD Principal—S S Saxena, MSc PhD Hds of Depts CHEM.—R P Kaushal, PhD DSc, Prof, MATHS—P N Vijayvargya, MSc BT, Prof, PHYS—A P Saxena, MSc PhD, Prof, ZOOL—S S Saxena, MSc PhD Other staff. 12 Asst. Profs, 42 Lectrs

GWALIOR, *Maharaja Laxmabai College of Arts and Commerce.* F 1890, govt BA, BCom, MA, MCom, LLB, PhD (in arts & comm) Principal—M N Kaul, MA Hds of Depts COMM—K C Bhandari, MCom LLB PhD, Prof, ECON—V S Shrivastava, MA, Prof, ENGL—P C Joshi, MA, Prof; GEOG—M A. Qureshi, MSc, Prof; HIST—Mrs Ramola Chaudhary, MA PhD, Prof, LAW—G. C. Kasliwal, JSD Corn, MA LL.M., PHILOS—B. L. Nigam, MA LLB, Jr Prof Other staff 17 Asst Profs, 26 Lectrs

INDORE, *Christian College* F 1884, private BA, MA, LLB Principal—C. W David, MA Hds of Depts ECON.—S G Patil, MA LLB, Prof, ENGL—V J Issadass, MA, Prof, HINDI—T. U Pathak, MA, Prof, HIST—H Solomon, MA, Prof; LAW—A G. Athale, BA LL.M., Prof, PHILOS.—C P Brahmo, MA LLB PhD, Prof, POL SCI—J A L. Noah, MA LLB, Prof;

SANSK—D G Sapre, MA, Prof, SOC. WORK—Mrs Bryce, Emer Prof, SOCIOLOG.—C M Abraham, MA LLB, Prof Other staff 2 Profs, 5 Asst Profs, 11 Lectrs, 1 Field Supervisor/Res Asst, 1 Field Supervisor

INDORE, *Govt Arts and Commerce College* F 1961, govt BA, BCom, MA, MCom, LLB, PhD (in arts & comm) Principal—G N Tandon, MA Hds of Depts ECON—R K Yarday, MA LLB BCom, Prof, HINDI—D K Jain, MA PhD, Jr Prof, HIST—D. Bhanu, MA PhD, LAW—P P Pandit, BSc LLB, Prof, MARATHI—S G Walimbe, MA, Jr Prof, POL SCI—J P. Dube, MA LLB, Prof Other staff 3 Profs, 1 Emer. Prof, 16 Jr Profs, 26 Lectrs

INDORE, *Holkar College of Science* F 1891, govt BSc, MSc, PhD (in sci.) Principal—W V Bhagwat, DSc Hds of Depts BOT—D W Kshirsagar, MSc, Jr Prof, CHEM—S G Harmalkar, MSc PhD, Jr Prof, MATHS—Lallusingh, MSc, Prof, PHYS—S D Choubey, MSc, Prof; ZOOL—B S Gogate, MSc, Prof Other staff 1 Emer Prof, 12 Asst Profs, 57 Lectrs

INDORE, *Mahatma Gandhi Memorial Medical College* F 1948, govt MB BS, MD, MS, DCH, TDD, DOMS Principal—B C Bose, MD DSc Hds of Depts ANAT—I Bhargava, MD, Prof, MED.—Ahbharai, MB BS, MRCP, Prof, OBSTET AND GYNACOL—B N Jungallwalla, MB BS, Prof, OPHTHALMOL—B K Dhir, MB BS DOMS, Prof, PHYSIOL.—R B Mathur, MD, Prof; PREV AND SOC MED—M C Mittal, MD Agra, MPH Harv, Prof; SURG—B B Ohri, MS, FRCS, Prof Other staff 5 Profs, 5 Asst Profs, 9 Readers, 20 Lectrs, 19 Demrs

INDORE, *P. M. B. Gyan College* F 1958, private BA (for working men), BSc, BCom, MCom, MSc Principal—K N Wani, MSc. Other staff 5 Jr. Profs, 22 Lectrs, 1 Phys Trg Instr

INDORE, *Shri Govindam Seksaria Technological Institute* F 1958, private BSc(Engg), MSc (Engg). Principal—V H Acharya, BA BSc, MIMechE Hds of Depts CIVIL ENGIN—V H Acharya, BA BSc, MIMechE, ELECTRIC ENGIN—N R Dass Gupta, BSc Calc, BEEng, MIB(India), MECH ENGIN—P N Malhotra, BSc(Engg) Other staff 1 Prof, 6 Assoc Profs, 1 Asst Prof, 11 Sr Lectrs, 3 Lectrs, 16 Jr & Sr Instrs, 6 Instis, 1 Lectr

MHOW, *M.P. College of Veterinary Science and Animal Husbandry* F 1955; govt BVSc&AH, MVSc&AH Principal—R L Kaushal, MS Hds of Depts ANAT AND SURG—M R Patel, BSc(Vet) Bom, ANIMAL HUSBANDRY—C M Taylor, BSc(Vet), PATHOL AND BACTERIOL—C. N Pandit, BVSc, MED—J F Patel, Prof, PHYSIOL—J S Khurana, Prof Other staff 5 Asst Profs, 9 Demrs, 1 Phys Trg Instr.

SEHORE, *Rafiq Ahmad Kidwai Agricultural Institute* F 1955, govt BSc(Agr), MSc(Agr) Principal—M L Purohit, MSc PhD Hds of

Depts : AGRIC BOT—T N Shukla, Prof, AGRIC CHEM—Y B Rangnagar, Prof, AGRON—J P Patel, Prof, ENTOMOL—R R Rawat, PhD, Prof Other staff 3 Sr Lectrs, 13 Lectrs, 1 Deputy

✓UJJAIN, *Madhav College* F 1891; univ (management and control of coll transferred to univ by M P govt for 5 yrs. from 4959) BA, BSc, BCom, MA, MSc, MCom, LLB, PhD (in arts, comm, sci) Principal—Shivmangal Singh, MA D Litt Hds of Depts : CHEM—H N Sharma, MSc PhD, Offg. Jr Prof, COMM—G P Gupta, MCom PhD, Prof, DRAWING—C H Khadikar, Jr Prof, ECON—V D Nagar, MA PhD, Prof, ENGL—D. S. Muley, MA PhD,

Prof., HINDI—G P Tandon, MA, Prof, LAW—R S Vidhyarthi, BA LLB, Prof, POL SCI—Prakrashchandia, MA PhD, Prof, SANSKRIT—V Venketachalam, MA, Prof Other staff 10 Jr Profs, 46 Lectrs

UJJAIN, *Postgraduate Basic Training College* F 1957, govt BEd(Basic), MEd, PhD Principal—T B Naik, MA PhD Other staff 2 Profs, 6 Lectrs, 1 Vocational Guidance Officer

VIDISHA, *S S L Jain College* F 1957, private BA, BSc, MA, LLB Principal—Raghunath Singh, MSc Hds of Depts : ENGL—K C Nair, MA, Prof; LAW—B K Phadnis, BSc LLB, Prof Other staff 11 Jr Profs, 3 Lectrs

AFFILIATED COLLEGES

AMRAH, *Degree College* Founded 1959 BA Principal—R S Sharma, MA. Other staff. 4 Lectrs

BAREILLY, *Govt Degree College* F 1961, govt BA, BSc Principal—S D Saxena, MSc PhD

BARWANI, *Govt Degree College* F 1957, govt BA, BSc, BCom Principal—S L Sharma, MA LLB BCom Other staff. 6 Jr Profs, 14 Lectrs, 1 Phys Trg Instr

BHIND, *Govt Degree College* F 1957, govt BA, BSc, BCom Principal—H B Saxena, MSc Other staff 8 Jr Profs, 15 Lectrs, 1 Phys Instr

BHOPAL, *Gandhi Medical College* F 1955; govt MB BS Principal—R P Singh, MS Other staff 9 Profs, 12 Readers, 23 Lectrs, 4 Registrars, 5 Residents, 19 Demrs, 2 Curators

BHOPAL, *Maharani Laxmbai Girls' College* F 1958, govt BA, BSc Principal—Vishalakshi Johri, MA. Other staff 8 Jr Profs, 12 Lectrs, 3 Demrs, 1 Phys Trg Instr

BHOPAL, *Maulana Azad Technological Institute* F 1960, private BSc(Engg) Offg Principal—S R Beedkar, BE Other staff 2 Profs, 2 Asst Profs, 3 Lectrs, 4 Assoc Lectrs, 1 Lectr †

BHOPAL, *Saifia Degree College* F 1959, private BA, BSc, BCom Principal—S A. Ali, MA MCom PhD Other staff 1 Jr Prof, 16 Lectrs

DEWAR, *Govt Degree College* F 1958, govt BA, BSc, BCom Principal—K L Shrivastava, MA PhD Other staff 6 Asst Profs, 13 Lectrs

DHAR, *Anand College* F 1957; govt BA, BSc, BCom Principal—B N Lunia, MA LT Other staff 8 Asst Profs, 20 Lectrs

GANJ BASODA, *Taran Taran Jain College* F 1961; private BA Principal—Staff. 4 Lectrs

GUNA, *Govt Degree College* F 1950, govt BA, BSc, BCom. Principal—O R Inamdar, MA Other staff 9 Jr Profs, 12 Lectrs.

GWALIOR, *Ayurvedic College* F 1961; govt.

BAMS Principal—L S Bhatnagar Other staff 6 Sr. Lectrs, 2 Jr Lectrs, 10 Lectrs †, 4 Demrs

GWALIOR, *Kamla Raja Girls' College* F 1939, govt BA, BSc Principal—Mrs Uma Johri, MA LT Other staff. 9 Jr Profs, 18 Lectrs

GWALIOR, *Laxmbai College of Physical Education* F 1959, govt BPE (bachelor of phys educn) Principal—P M Joseph, MEd BPED Other staff 12 Lectrs

GWALIOR, *Madhav Engineering College* F 1957, private BSc(Engg) Principal—N N G Dasudhar, BSc(Tech) Other staff 3 Profs, 1 Assoc Prof, 13 Lectrs

GWALIOR, *Postgraduate Basic Training College* F 1960, govt BEd(Basic) Offg Principal—B Sharma, MA MEd Other staff 1 Prof, 5 Lectrs, 4 Instis

GWALIOR (LASHKAR), *Madhav Mahavidyalaya* F 1957; private BA, BCom Principal—S G. Kunte, MA. Other staff 9 Jr Profs, 5 Lectrs, 2 Lectrs †

GWALIOR (LASHKAR), *Parvati Gokhale Vigyan Mahavidyalaya* F 1961, private BSc. Principal—G S Datar, MA Other staff. 4 Jr Profs, 5 Lectrs, 1 Jr Lectr.

INDORE, *College of Agriculture* F 1961, govt. BSc(Agr). Principal—H. P Dwivedi Other staff 11 Lectrs

INDORE, *College of Dentistry* F. 1961; govt. BDS Principal—Staff 1 Prof, 1 Demr.

INDORE, *College of Nursing* F. 1961; govt BSc(Nursing) Principal—Miss S P. Rathnam. Other staff. 1 Lady Supt. of Health, 1 Sister Tutor

INDORE, *Girls' Degree College* F 1956, govt BA, BSc. Principal—Mrs. Indu Mehta, MA LLB. Other staff 7 Jr Profs., 17 Lectrs

INDORE, *Govt Sanskrit College* F. 1961; govt BA (classics) Principal—P. K. Modi, MA LLB. Other staff: 1 Asst. Prof., 4 Lectrs

JAORA, *Govt Degree College* F 1961, govt BA, BSc, BCom Principal—G W Kaveeshwar, MA LLB Other staff 3 Asst Profs

JHABUA, *Govt Degree College* F 1960, govt BA Principal—S N Bajpai, MA Other staff 8 Jr Profs, 3 Lectrs

KHARGONE, *Govt Degree College* F 1959, govt BA, BSc, BCom Principal—Naiayan Singh, MA Other staff 6 Asst Profs, 9 Lectrs, 1 Asst Lectr., 1 Phys Trg Instr

MANDSAUR, *Govt Degree College* F 1957, govt BA, BSc, BCom Principal—B Shrivastava, MA Other staff 9 Asst Profs., 11 Lectrs, 3 Asst Lectrs, 1 Phys Trg Instr

MITHW, *Govt Degree College* F 1958, govt BA, BSc, BCom Principal—S C Chakravarti, MSc PhD Other staff 6 Asst Profs, 17 Lectrs

MORENA, *G.P. Degree College* F 1956, private BA, BSc, BCom Principal—T P Bajpai, MA Other staff 7 Jr Profs, 10 Lectrs.

NEMUCH, *Govt Degree College* F 1959, govt BA, BSc, BCom Principal—R C Shukla, MCom LLB PhD Other staff 9 Asst Profs, 16 Lectrs

RAJGARH, *Govt Degree College* F 1959, govt BA, BSc, BCom Offg Principal—A P Shitoot Other staff 9 Asst Profs, 9 Lectrs

RAMPURA, *Govt Degree College* F 1959, govt BSc, BCom Principal—G P Pendse, MSc DPhil Other staff 5 Jr Profs, 6 Lectrs, 1 Phys Trg Instr

RATLAM, *Govt Degree College* F 1956, govt BA, BSc, BCom Principal—A N Gupta, MA Other staff 7 Asst Profs, 10 Lectrs, 1 Phys Trg Instr

SEHORE, *Govt Degree College* F 1959, govt BA, BSc Principal—K N Nanda, MA Other staff 7 Asst Profs, 10 Lectrs, 1 Phys. Trg Instr

SHAJAPUR, *Govt Degree College* F 1959; govt BA Principal—S N L Shrivastava, MA PhD Other staff 7 Lectrs.

SHIVPURI, *Govt Degree College* F 1959, govt BA Principal—G. Vyas, MA PhD Other staff 3 Lectrs

UJJAIN, *Govt Girls' Degree College* F 1959, govt BA, BSc Principal—Mrs P Indurkar, MA Other staff 9 Jr Profs, 3 Asst Profs, 4 Lectrs

VIDISHA, *Samrat Ashoka Technological Institute* F 1960, private BSc(Engg) Principal—V. V. Natu, BE Other staff 3 Lectrs, 2 Jr Lectrs, 1 Asst Lectr

GENERAL INFORMATION

All the colls in the former state of Madhya Bharat were affiliated to Agra Univ and a need was felt for a new univ there. An act establishing Vikram Univ. as a federal univ with headquarters at Ujjain, an ancient seat of learning, came into force in 1957 following the creation of the new state of Madhya Pradesh.

The univ is an affiliating and teaching type instn, teaching being carried out in the constituent and affiliated colls as well as in univ depts. The univ postgrad depts of maths, phys., stats and anc Indian hist & culture are at Ujjain, chem at Indore, bot & zool at Gwalior and geol at Bhopal. Its jurisdiction extends over the districts of Bhind, Dewas, Dhar, Guna, Gwalior, Indore, Jabua, Mandasaur, Morena, Raisen, Rajgarh, Ratlam, Sehore, Shajapur, Shivpuri, Ujjain, Vidisha, and W. Nimar (Khargone), in Madhya Pradesh.

CONSTITUTION. The main univ authorities are senate, syndicate, academic council, facs and bds of studies. Senate is the supreme body and univ statutes and ordinances are subject to its approval. The syndicate is the executive body controlling day-to-day admin. The bds of studies report to the facs, the facs to the academic council, and the academic council to the syndicate. All other bodies report to the syndicate.

INCOME (1959-60) Total income Rs 1,338,600 (recurring grants, Rs 375,000, special grant, Rs 170,000, fees, Rs 649,800, affiliation

& annual fee from colls, Rs 71,150; grant from U.G.C., Rs 50,000, misc., Rs 22,650)

FACULTIES AND DEANS *Agric*, Dr R S Bhatt, *arts*, P C Malhotra, *comm*, Dr G P Gupta, *educn*, Dr G Chourasia, *engin*, N N G Dastidar, *law*, B S Johar; *med*, Dr B C Bose, *phys educn*, P M Joseph, *sci*, D. W. V. Bhagwat, *vet sci* & *animal husb*, Dr R Kaushal.

UNIVERSITY PRECINCT During the 3rd 5-yr plan period, the following bldgs are to be constructed at Ujjain on the univ campus: permanent admin bldg, senate hall, library bldg, bldg. for press, guest house, hostels for men & women, bldgs for univ teaching depts.

LIBRARY 9800 vols

ADMISSION Students who have passed the higher sec. or pre-univ exam of any Indian univ or statutory bd or any other equivalent exam are eligible for admission to the 3-yr. degree course in arts, comm. or sci. Those who have passed the inter. exam are admitted to the 2nd yr. of the 3-yr. degree course in arts, comm. or sci. The following are eligible for admission to professl courses—*engin* those who have passed inter sci with chem, maths and phys or the 1st-yr. sci. course of the 3-yr. degree course in the same subj., *med.* and *vet. sci.* those who have passed inter sci. with bot, chem and phys or the 1st-yr. sci. course of the 3-yr. degree course

in the same subsj, *agric* those who have passed inter sci (*agric*)

FIRST DEGREES BA, BSc, BCom (3 yrs), MB BS (5 yrs), BSc(Agric) (2 yrs), BSc(Engg) (4 yrs after inter); BVSc (4 yrs), BPE (phys. educn) (3 yrs.)

HIGHER DEGREES. BEd, BEd(Basic), MEd, 1 yr. each, MA, MSc, MCom, LLB, LL.M, MD, MS, MSc(Agric), 2 yrs. each

DIPLOMAS 1 yr postgrad DCH, TDD, DOMS, DMRE, DGO, library sci.

PRIVATE CANDIDATES Non-collegiate women candidates who reside within the territorial jurisdiction of the univ and teachers or librarians of

recognized educul. instns within the jurisdiction of the univ may appear privately for the exams of BA, BCom, MA, MCom and MSc (maths). Law teachers of colls affiliated to the univ may appear for LLM exams.

STUDY LEAVE is accorded, but no fixed rule

ACADEMIC YEAR July 1-June 30

MEDIUM OF EXAM English and Hindi.

PUBLICATION *The Vikram* (quarterly res journal), *Prospectus and Syllabus* for each fac., *Calendar*, *Annual Report*

UNIVERSITY PRESS was establd in 1961

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS Bldgs completed temp admin office, 3 residential bungalows, approach rd

NEW DEPARTMENT Anc hist & Indian culture

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	16,697	—
Women	2,495	—
Total	19,192	—

Distribution by Faculties *Agric*, 590, *arts*, *sci.*, *comm* & *law*, 15,690, *educn*, 355, *engin*,

850, *med*, 1370, *phys educn*, 74, *vet sci* & *animal husbandry*, 263 Total 19,192

Included in the figures above are —

Intermediate and Pie-University students, nil

Postgraduate students, 2319

New admissions, 7759

Students from other countries, 27 (Countries from which largest numbers came Nepal, 12, Africa, 7, Fed of Malaya, 5).

DEGREES AWARDED (1959-60) BA, 1251, MA, 573, PhD, 1; BSc, 265, MSc, 155; BCom, 408, MCom, 122; BSc(Ag), 81, MSc(Ag), 34; BEd, 330, MEd, 22, BSc(Engg), 13, BPE, 23, BVSc&AH, 56, LLB, 159, MB BS, 192, MD, 12, MS, 18

DIPLOMAS AWARDED (1959-60) DipLibSc, 9; DOMS, 2; DCH, 8, TDD, 3, DMRE, 4

VISVA-BHARATI

Founded 1951, previously established as Visva-Bharati 1921

Postal Address P.O. Santiniketan, District Burdwan, West Bengal, India

Cables and Telegrams Visvabharati, Santiniketan

Telephones . Bolpur 21 and 22

VISITOR—THE PRESIDENT OF THE REPUBLIC OF INDIA (*ex officio*)

RECTOR—H E THE GOVERNOR OF WEST BENGAL (*ex officio*)

CHANCELLOR—J NEHRU, MA LLD Camb, Prime Minister of the Republic of India

VICE-CHANCELLOR—S. R. DAS, MA

HON. TREASURER—D N. MITRA

REGISTRAR— . . .

LIBRARIAN—B K DATTA, MA DipLib Calc

TEACHING STAFF

Arabic, Persian and Islamic Studies		Saha, S, MA	Lectr.
Roy, N. B, MA	Reader	Mayumdar, A, MA	Lectr.
		Sinha Roy, M., MA	Lectr.
		Gupta, A. K., MA	Lectr.
Arts and Crafts			
Dev Burman, D. K.	Reader	Education	
Bajj, R	Lectr	Sarkar, S. C, MA BT	Reader
Bose, B.	Lectr	Chatterjee, N C, MA BT	Lectr
Bagchi, R.	Lectr.	Rai, J G, BT MED Patna	Lectr
Perumal, A	Lectr.	Das Gupta, N K, MSc Calc.	Lectr
		Chakrabarty, P, MA BT Calc	Lectr
		De, J -K, MA BT Calc.	Lectr
Bengali and other Modern Indian Languages			
Sen, P. C., MA	Prof	English and other Modern European Languages	
. . .	Reader	...	Prof
Goswami, N V.	Lectr.	Ghose, S K, MA DPhil Calc	Reader
Das, U K, MA	Lectr.	Datta, H N, MA	Lectr
Raha, A. V, MA	Lectr	Sen, M. K., MA	Lectr
Gupta, B B, MA	Lectr	Roy, Mrs. Asha, MA	Lectr.
Ghosh, Miss Nalini, MA	Lectr.	Chatterji, S, MA Calc	Lectr
Bandyopadhyaya, S N., MA Calc.	Lectr	De, N, MA Calc.	Lectr
Mukherjee, S, MA Calc	Lectr	Choudhuri, J K, MA	Lectr.
Roy, S. N, MA	Lectr	Hacker, H	Lectr.
Banerji Bhattacharya, D C., MA PhD	Lectr.		
Chinese and Japanese		Hindi	
Tan Yun-Shan	Prof	Tamai, R S., MA DPhil Alld	Prof
Wei Kwei-Sun, PhD	Lectr.	Bajpai, M, MA LLB	Lectr.
Kasugai, S., DLitt	Lectr.	Tiwari, R., MA	Lectr.
Tagore, A., BCom Calc., Shoo-Shih Natni		Shiva Nath, MA DPhil Calc.	Lectr.
Peking	Lectr	Biswas, Miss Kamika, MA PhD Ban	Lectr
Mukherji, S. K.	Lectr		
Economics and Politics		History	
Mukherji, K., MA DPhil Calc.	Prof.	Chatterjee, S, MA PhD	Prof.
Das Gupta, S., MA	Lectr.	Ray, S C, MA	Lectr.

Bose, S. K., MA	Lectr	Venkataramanan, K., MA	Lectr
Ghose, Miss Uma, MA	Lectr	Sen Gupta, S. C., MA PhD Lond	Lectr
Sarkar, K. K., MA	(on leave) Lectr	Chakravarty, S. C., MA Dacca	Lectr
Banerjee, H. K., MA	Lectr	Roy, P. K., MA	Lectr
Lahiri, A., MA	Lectr	Bhattacharya, C. R., MA	Lectr

Indo-Tibetan Studies

Aryaswamy, N., Sastri Siromani	Reader
Chhimed, R. Lama	Lectr
Patak, S. K., MA	(on leave) Lectr

Mathematics

Chatterji, K. C., MA	Lectr
Ghosh, P. K., MA	(on leave) Lectr.

Music, Classical, see also Rabindra Music

Wazalwar, V. V.	Lectr
Bharya Chaudhuri, S. K., BA	Lectr

Oriya

Pattanayak, D. P., MA	(on leave) Lectr
Misra, N. N., MA PhD	Lectr
Nayak, R., MA	Lectr

Persian, see Arabic**Philosophy and Religion**

Bhattacharya, K., MA PhD Calcutta	Prof
Ray, B. G., MA	Reader

Politics, see Econ and Pol.**Rabindra Music and Dance**

Nair, P. H.	Reader
	Reader
	Lectr.

Sanskrit, Pali and Prakrit

Bhattacharya, S., MA PhD Lond.,	Prof.
DLitt Lille	Lectr.
Bhattacharya, S., Sastri	Lectr
Chakravarti, N., MA	(on leave) Lectr
Banerji, B., MA PhD	Lectr.
Mallik, M., MA	Lectr.
Pantul, M. M., MA	Lectr.
Chatterji, K., MA	Lectr
Bhattacharya, B., MA PhD	Lectr.

Science (including Geography)

Das Gupta, P. C., MSc Calc.	Lectr
Bhattacharya, D., BA	Lectr
Sanyal, J., MSc Calc	Lectr.
Mitra, A. K., MA	Lectr.

ADMINISTRATIVE AND OTHER STAFF

Asst Registrar (Academic) B. Basu, MA.	Mukherjee Dn, Rural Reconstruction Dept
Asst Registrar (Admin) S. Sen, BA Accts	D. Roy Dn, Publications Dept : C. C.
Officer S. C. Das, MA Curator, Rabindra-	Bhattacharya, MA Editor, <i>Visva-Bharati</i>
Sadana K. Roy, MA Calc	<i>Quarterly</i> K. Roy, MA Calc Dir, Agro Econ
Proctor R. S.	Res Centre G. C. Mandal, MA DPhil Calc.
Tomar, MA DPhil Asst Lectr, Phys Educn	
Lt S. N. Choudhury, BSc Med Officer : S. C.	

CONSTITUENT INSTITUTIONS

(Postal address and telephone number are the same as for the Univ., unless otherwise stated)

CHINA-BHAVANA (Inst of Sino-Indian studies and res.) Seeks to revive the old cultural links between India and China. Sino and Japanese studies form the main work of this section. It provides a 2-yr course for a cert. of proficiency in Chinese, followed by a further 1-yr dipl. course in the same lang. The courses are open to students of postgrad and undergrad classes of Visva-Bharati, students preparing for the foreign and defence services, or any other person recommended by the principal of a constituent coll. of Visva-Bharati.

HINDI-BHAVANA (Inst of Hindi studies and res.) Organizes teaching of Hindi in the other constituent instns, in addn. to undertaking original res in Hindi lang and lit.

KALA-BHAVANA (coll. of fine arts and crafts) (1919). Owes its inspiration to the artistic renaissance

in Bengal under the guiding spirit of Acharya Abanindranath Tagore and Dr Nandalal Bose. Trg is provided for (1) 2-yr cert. course in artistic handicrafts, and (2) post-matric. 4-yr dipl. course in fine arts and crafts. Subjs: drawing, painting, modelling, sculpture, etching, wood- and lacocut, fresco-painting and design-drawing, embroidery, batique and artistic leather-work. Museum, library and exhibition hall. Principal—B. Bose.

PALLI-SAMGATHANA VIBHAGA (rural reconstruction dept.) (1922), P.O. Srimikatan, District Birbhum, West Bengal, India (tel. Bolpur 24), is concerned mainly with study of problems of rural life in its social, cultural, economic and other aspects, and with extension work in villages on the basis of such study. The Cottage Industry Trg Centre provides 2-yr. cert. course followed

by a further 1-yr dipl course in carpentry and weaving. An Inst for Rural Higher Educn, sponsored by the govt of India Council of Rural Higher Educn., provides 3-yr dipl course (rural services) and 2-yr. cert. course (agric sci), min qualif for admission is si sch cert. Palli-Samgathana Vibhaga also conducts the Basic Teachers' Trg Sch (Siksha-Charcha), providing instructn in both the theory & practice of basic educn and vacation courses, seminars and conferences, exhibitions, literary and advisory services (sch visits), field researches. Dir—D Roy

PATHA-BHAVANA (school section) (1901) Provides instructn for 11-yr higher sch cert (corresponding to higher sec exam). Medium of instructn Bengali. Principal—B B Gupta, MA

SANGITA-BHAVANA (coll of music and dance) (1934) Gives trg in Indian music, classical and modern, vocal as well as instrumental. A systematic study is made of northern (Manipuri) and southern (Kathakali) styles of dance. Sp facilities for study of songs of Rabindranath Tagore. Provides post-matric 4-yr dipl course in music and dance. Offg. Principal—S K Bhanya Chaudhur, BA

SIKSHA-BHAVANA (coll of undergrad studies) (1921) Provides 1-yr preparatory course followed by further 3-yr degree course (BA hons) in arts subjs. Subjs. offered Bengali, Hindi, Oriya, Sanskrit, Engl., hist., econ and philos. Also provides 2-yr. cert course (for postgrad and

undergrad. students) in Indian and foreign langs (Sansk., Bengali, Hindi, Oriya, French, German, Engl., Chinese, Japanese and Tibetan), followed by further 1-yr dipl course in the same langs. Tutorial help, emphasis on social, cultural, literary and other extra-curricular activities are some of the distinguishing features of the coll. Principal—B G Ray, MA

VIDYA-BHAVANA (coll of postgrad studies and res.) (1918). Provides instructn for degrees of MA, PhD and DLitt. MA course is 2 yrs. and subjs offered are mod Indian langs (Bengali, Hindi, Oriya), hist., and Indian hist & culture, Sanskrit, econ., Engl. and philos. The coll. is mainly concerned with Indol studies in Vedic, Puranic, Buddhist, Jain, Zoroastrian and Islamic cultures and in major langs and lits of India. Degree course for PhD (2 yrs) in any subject in which instructn is provided, also the higher res degree DLitt on published work of outstanding merit. Hons. grads of recog univs are ordinarily admitted to the MA course. Pass grads of recog univs are also exceptionally admitted on passing an admission test. MA courses consist of lectures, seminar work, as well as trg in the methodology of higher studies and res. Principal—K Bhattacharya, MA PhD

VINAYA-BHAVANA (teachers' training college) (1948) Provides instructn for BEd (1 yr postgrad). A sp feature is the trg given in crafts and other creative activities in addn to theoretical subjects. Principal—S. C Sarkar, MA BT

GENERAL INFORMATION

Visva-Bharati grew out of Santiniketan Ashrama, a retreat founded in 1863 by Maharshi Devendranath Tagore. In 1901 an experimental sch was started at Santiniketan by Rabindranath Tagore, and since 1921 Santiniketan has been the seat of Visva-Bharati, which was incorporated as a univ by Act XXIX (1951) of the Indian parliament. Visva-Bharati is an all-India instn with students and teachers drawn from all over India, with a proportion of teachers, students and visitors from abroad. Univ area occupies over 11 sq mls.

The aims of the univ are to study the mind of man in its realization of different aspects of truth from diverse points of view, to bring into more intimate relation with one another, through patient study and research, the different cultures of the East on the basis of their underlying unity, to approach the West from the standpoint of such a unity of the life and thought of Asia, to seek to realize in a common fellowship of study the meeting of the East and the West, and thus ultimately to strengthen the fundamental conditions of world peace through the establishment of free communication of ideas between the two hemispheres, and with such ideals in view, to provide at Santiniketan a centre of culture where res into and study of the religion, lit., hist., sci. and art of

Hindu, Buddhist, Jain, Islamic, Sikh, Christian and other civilizations may be pursued along with the culture of the West, with that simplicity in externals which is necessary for true spiritual realization, in amity, good fellowship and co-operation between the thinkers and scholars of both eastern and western countries, free from all antagonisms of race, nationality, creed or caste.

A scheme of agro-economic res is being conducted at the univ under the auspices of the Ministry of Food and Agric, govt of India. The scheme has under its purview a considerable area consisting of West Bengal, Bihar, Orissa and Assam.

The Social Education Organizers' Trg Centre, sponsored under the community project scheme, provides for trg. of 160 organizers from the states of the Indian union every yr and has a twofold curriculum, theoretical and practical.

CONSTITUTION *Samsad* (court), supreme governing body of univ.; *Karna-Samiti* (executive council), univ executive body, *Siksha-Samiti* (academic council), which deals with academic matters only.

INCOME (1959-60) Total income Rs. 3,940,212 (govt. grants, 39.7 per cent, fees, 6 per cent, other sources, 54.3 per cent.)

LIBRARY Central libr and sectional libr attached to colls over 194,000 vols incl MSS and journals MSS section over 75,000 MSS in Bengali, Persian, Oriya and Sansk Cheena-Bhavana libr more than 100,000 fascicles bound in 35,133 combined vols of important Chinese books A complete set of the Tibetan *Ts'ipitaka* consisting of 317 bundles of Kylography

MUSEUM. Rabindra-Sadana Material relating to Rabindranath Tagore MSS. of 102 of his published works in Bengali, more than 1600 of his paintings, letters addressed to him by his contemporaries, and personal effects Literature on Tagore and his works **AGRICULTURAL FARM** attached to rural reconstructn dept

MEDICAL FACILITIES Pearson Memorial Hosp managed by the univ has 3 full-time med officers as well as part-time eye specialist, dental surgeon, Outdoo and indoor treatment, clin lab and X-ray apparatus. Quarantine annexe. Leprosy clin at Srimiketan.

OVERSEAS AND FOREIGN SCHOLARS are admitted to the colls. and courses of study both as regular and as casual students Scholars from all countries share the same community life and participate in all cultural, creative and constructive activities. Entrance requirements, etc., available from registrar

FIRST DEGREES Post-higher secondary 3 yrs —BA hons (in Bengali, econ, Engl, Hindi, hist, Oriya, philos, Sanskrit), BSc (in maths)

HIGHER DEGREES 1 yr —BED, 2 yrs. after BA hons —MA (in Bengali, Engl, Hindi, and Indian hist & culture, hist, econ, Oriya, philos, Sanskrit), 2 yrs' res after MA—PhD, DLitt

DIPLOMAS. Fine arts & crafts—4 yrs, music & dance—4 yrs., (lang courses in) Sansk, Bengali, Hindi, Oriya, Engl, Japanese, Chinese, Tibetan, French, German—3 yrs, woodwork, weaving—3 yrs.

CERTIFICATES. Artistic handicrafts—2 yrs; (lang. courses in) Sansk, Bengali, Hindi, Oriya, Engl, Japanese, Chinese, Tibetan, French, German—2 yrs., woodwork, weaving—2 yrs.

RESIDENCE Students live a community life, all

colls and insts. being co-educnl and residential Men have separate hostels attached to various depts., while women have a common hostel (Sree Sadana) Staff quarters at Santiniketan, Srimiketan and Vinaya Palli.

STUDY LEAVE is granted to all members of staff, each applicn being decided on its merits.

FEES Annual fees Rs 300, inclusive of tuition, med. help, sports, library, and hotel accomm Refectory charges Rs. 50 p.m., during term only. Admission fee about Rs. 25.

ACADEMIC YEAR July to April Term dates (approx.) July 1–Sept. 21, Nov 2–Dec 20, Jan 4–April 30

LANGUAGE OF INSTRUCTION is English, except in Patha-Bhavana (sch section), where Bengali is used

EXTENSION LECTURES Rabindra memorial extension lectures provide for course of at least 3 lectures in each term of academic session on any one of lit (Engl., Bengali, Sansk), fine arts, hist, philos, Buddhist studies and econ

AWARDS Merit scholps., value Rs 60 & Rs 75 p.m., awarded to students admitted to BA hons., BSc hons. and MA courses respectively. Also no of free studentships and half-free studentships.

PUBLICATIONS The univ.'s publcn. dept. (Granthana-Vibhaga) has its H Q in Calcutta This dept owns the copyright of the Bengali works of Rabindranath Tagore Its publcns may be classified as follows. (i) writings of Rabindranath Tagore, (ii) series of books for folk educn, (iii) series of general knowledge books, (iv) res publcns under auspices of Vidya-Bhavana res. dept., incl *Visva-Bharati Studies* and *Visva-Bharati Annals*; (v) school text-books, (vi) univ. *Calendar*, *Annual Report*, *Bulletins*, *Pamphlets*, *Visva-Bharati News*. Cultural organs *Visva-Bharati Quarterly*, *Journal of Visva-Bharati Study Circle* and *Visva-Bharati News* in English, *Visva-Bharati Patrika* in Bengali.

UNIVERSITY PRESS Univ press at Santiniketan prints various publcns. under the imprimatur of Visva-Bharati

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS *Bldgs completed* extension to sci. lab; carpentry & weaving workshops at C I Trg Centre *Approaching completion* 'Vichitra'-Rabindra art gallery; girls' hostel & staff quarters at Inst. of Rural Higher Educn

OTHER PROJECTS Water supply scheme for univ approaching completion

RETIREMENT S R Majumder (Rabindra music & dance)

RESIGNATIONS D McCutcheon (Engl), apptd

to post in Jad.; S C. Acharya (maths.), apptd. lectr. in maths, Engin Coll., Durgapur.

DEATHS. Emer Prof. K Sen Sastri (former Vice-Chancellor), Mrs. Indira Devi Chaudhuran (former Vice-Chancellor)

HONORARY DEGREES. *DLitt*—D M. Dutta, formerly prof of philos, Patna; L K. Elmhurst, formerly dir., dept. of rural reconstructn., Srimiketan, founder of Dartington Hall (U.K.); P Geheeb, educationist, founder of École d'Humanité, Goldern (Switzerland).

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	289	—
Women	165	—
Total	454	—

Distribution Preparatory, 34; IA, 34, ISc, 26, BA, 66, MA, 36; PhD, 28; lang. & casual students, 12; BEd, 58; fine arts & crafts, 73, music & dancing, 49, dipl. in woodwork, 29, dipl. in weaving, 9 Total 454

Included in the figures above are —

Preparatory & Intermediate students, 94.

Postgraduate students, 122

New admissions, 189

Students from other countries, 23 (Countries from which largest numbers came Ceylon, 12; China, 4)

DEGREES AWARDED (1960) BA (pass), 3, BA (hons), 12, BEd, 65, MA, 42, PhD, 2. *Total number of first degrees awarded, 15*

DIPLOMAS AWARDED (1960). Fine arts & crafts, 19, lang., 3, music & dance, 7, weaving, 3, woodwork, 8

CERTIFICATES AWARDED (1960) Arts & crafts, 16, IA, 27, ISc, 20, lang., 10, weaving, 3; woodwork, 4

MALAYA AND SINGAPORE

University of Malaya (p. 656)

University of Malaya in Singapore (p. 657)

University of Malaya in Kuala Lumpur (p. 662)

Nanyang University (p. 666)

MALAYA

UNIVERSITY OF MALAYA*

Founded 1949

Postal Address c/o University of Malaya in Kuala Lumpur, Pantai Valley, Kuala Lumpur, Malaya
Cables and Telegrams . Univsel, Kuala Lumpur
Telephone Kuala Lumpur 84030

CHANCELLOR—Rt Hon M MACDONALD, MA *Oxon*, Hon LLD HK, Hon DLitt
PRO-CHANCELLORS—SIR HAN HOE LIM, CBE, MB ChB *Edin*, LLD, YANG TERAMAT MULIA TUNKU
YA'ACOB, CMG, MA Hon LLD
CHAIRMAN OF CENTRAL COUNCIL (alternately)—TUAN HAJI MUSTAPHA ALBAKRI, TAY TECK ENG,
OBE, LDS Hon LLD
VICE-CHANCELLOR—SIR ALEXANDER OPPENHEIM, OBE, MA DSc *Oxon*, PhD *Chic.*, Hon DSc
CENTRAL SECRETARY—TEH TUCK SOON, DipSc

DIVISIONS OF THE UNIVERSITY

UNIVERSITY OF MALAYA IN SINGAPORE *see p 657*
UNIVERSITY OF MALAYA IN KUALA LUMPUR. *see p 662.*

GENERAL INFORMATION

The univ was founded on Oct 8, 1949, by ordinances enacted in the Fed of Malaya and the Colony of Singapore. It was formed by the fusion of 2 existing colls of higher educn in Singapore, the King Edward VII Coll of Med (founded 1905) and Raffles Coll (founded 1929). Full univ teaching began in session 1949-50 on the Singapore sites. In 1954 a decision was taken to start univ teaching in the Federation. A site at the Pantai Valley nr Kuala Lumpur was acquired and 1st-yr teaching in all arts subjs began in Sept 1957 in accomm temporarily made available in the Govt Tech Coll, Gurney Rd. This was, however, discontinued in the session 1958-59. In July 1958 the entire dept. of engin was transferred to the Pantai Valley site.

As a result of proposals emanating from the univ, the govts of the Fed of Malaya and of the Colony of Singapore set up in 1957 a commission 'to review the constitution, working and finances of the univ in the light of the experience and rapid expansion of the last 7 yrs and of the prospective expansion in the near future, including the plan for developing the univ in Kuala Lumpur, and to make recommendations'. The commission, headed by Dr R S Aitken, vice-chancellor of the Univ of Birmingham, arrived in Aug 1957 and its report was publ in Nov the same yr. As a result of this report the govts apptd jointly a cttee to draft a constitution for the univ which would take into account the

proposals aiming at creating 2 divisions of equal status, 1 in each territory, with the univ as the supreme governing body of the 2 divs. Ordinances to give effect to these proposals were enacted in Nov 1958 and came into force on Jan 15, 1959.

CONSTITUTION The amended constitution provides for the continuance of the Univ of Malaya as a single univ, with a chancellor, a vice-chancellor, a central council, a court and a guild of grads, and for the establ of 2 divs—the Univ of Malaya in Singapore and the Univ of Malaya in Kuala Lumpur—each with its own principal, its own divisional council and divisional senate. The 2 divs are equally represented on the central council. The central council and vice-chancellor are assisted by a central secretariat.

The univ has power, amongst other things, to award degrees, to ensure the maintenance of academic standards, to regulate conditions of service of staff in the univ and the divs and to negotiate with the govts on matters of finance.

The divisions make all appts of teachers and control matters relating to univ teaching and admission to courses of study.

FINANCE On the recommendations of a jt finance cttee apptd by the govts. of the Fed. of Malaya and Singapore, grants for annually recurrent costs of the univ and the 2 divs for the triennial period 1959-61 will be made jtlly by the

* Member of the Association of Universities of the British Commonwealth

Fed. and Singapore govts. in the ratio of 2 : 1. After the triennium it is anticipated that each govt. will, with certain exceptions, be responsible for contributing to the annually recurrent costs of the div. in its territory. Capital grants during the triennium will be made by the 2 govts. on an equal basis.

INCOME (July 1, 1958 to Dec. 31, 1958) £537,136 approx (govt. grants, 83.9 per cent., tuition & other fees, 11.1 per cent., rents, 2.5 per cent.; clin. fees, 1.7 per cent., investment income,

0.3 per cent., misc., 0.5 per cent.) With effect from Jan. 1, 1959, the financial yr. has been changed to Jan. 1 to Dec. 31.

GEOGRAPHICAL LOCATION. The offices of the univ. are located in the bldgs of the Kuala Lumpur div. in the Pantai Valley.

ADMISSION, DEGREES AND DIPLOMAS See under entries for the divisions, below.

PUBLICATIONS. *Calendar* (May 1959), *Annual Report* (June 1959), *Gazette* (Oct. 1959).

THE YEAR 1960

RETIREMENTS, RESIGNATIONS See p 662

HONORARY DEGREES MD—M Dorasingham, A A Sandosham LLD—F Mason

arts, 756, dent., 111, educn., 77, engin., 159, law, 227, med, 530, pharm, 52, sci., 356
Total 2295

Included in the figures above are —

Postgraduate students, 100

New admissions, 910

Students from other countries, 39

DEGREES AWARDED (1959-60) Arts, 320, sci., 83, med, 90, engin., 21, dent., 20; pharm, 4.

DIPLOMAS AWARDED (1959-60) Educn., 59, soc studies, 13, pub. health, 6, pharm, 6

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	1686	34
Women	573	2
Total	2259	36

Distribution by Faculties, etc Agric., 27,

[Information compiled as at 1/6/61]

UNIVERSITY OF MALAYA IN SINGAPORE

Established 1959

Postal Address • Cluny Road, Singapore, 10

Cables and Telegrams Univmalaya, Singapore

Telephone . Singapore 2815

CHAIRMAN OF DIVISIONAL COUNCIL—TAY TECK ENG, OBE, LDS Hon. LLD

PRINCIPAL—B R SREENIVASAN, LMS Hon LLD, MRCP

REGISTRAR—H D LEWIS, DipArts

BURSAR—R. QUAAHE, BCom Lond.

LIBRARIAN—JEAN M WALLER, MA

TEACHING STAFF

[† = Part-Time]

Anæsthesia, see Medicine, below

Anatomy, see Medicine, below

Bacteriology, see Medicine, below

Biochemistry, see Medicine, below

Botany

Gilliland, H B, BSc Edn, DSc Rand,
FLS

Johnson, Mrs Anne, BSc PhD Lond.

Hsuan, K, MS Taiwan, PhD Calif

Rao, A. N., MSc Mys, PhD Iowa

Prof.

Lectr.

Lectr.

Lectr.

MALAYA

Lim, Gloria, PhD *Lond.*, MSc DipEd Lectr
 Avadhani, P. N., MSc *And.*, PhD *Durh.* Asst. Lectr.

Chemistry

Kuang, A. K., BSc *Lond.*, PhD *Camb.*,
 DipSc, FRIC Prof
 Svasti, M. C. K., IngTICM *Brussels*,
 MSc Lectr
 Ang, K. P., MSc PhD Lectr
 Tong, Mrs. Hee Keong, MSc Lectr
 Lee, H. H., BS *Ill.*, PhD *M.I.T.* Lectr
 Huang, H. H., DPhil *Oxon.*, MSc Lectr
 Tan, Mrs. Sau Fun, MSc *H.K.*,
 PhD *Lond.* Asst. Lectr.
 Kurien, K. C., MSc *Saug.*, PhD *Notre Dame*
 Asst. Lectr.
 Hamilton, W., BSc PhD *Glas* Asst. Lectr.

Chinese Language and Literature

Ho, K. C., LicScNat *Aurora* Prof
 Sr Lectr., Actg Hd. of Dept
 Chao, T. * Lectr
 Lee, T. H., MA Asst. Lectr.

Dentistry

Ticde, R. J. S., BDS *Syd.*, DDS MScD *Tor.*,
 FDSRCS Prof
 Jansen, J. A., MScD *Tor.*, LDS Prof
 Oehlers, F. A. C., LDS, FDSRCS Sr Lectr
 Ollivere, J. D. F., BDS *N.U.I.*,
 Hon FDSRCSed Sr. Lectr.
 Lee, E. C., MDS, FDSRCS * Lectr.
 Goh, S. W., MDS Lectr.
 Tay, E. M. H., BDS, FDSRCS Lectr.
 Lam, R. V., MDS, FDSRCS Lectr.
 Lee, F. M. S., BDS *Syd.*, FDSRCS Lectr.
 Lee, S. K., BDS Asst. Lectr.
 Yeoh, Mrs. Shirley, BDS *Syd* Asst. Lectr.

Economics

Lam, T. B., BA PhD *Lond.*, MA *Camb.*,
 DipArts Prof.
 You, P. S., BSc(Econ) PhD *Lond.* Sr Lectr
 Chou, K. R., BA *Chungking*, PhD *Lond.* Lectr
 Bottomley, J. A., MA PhD *Virginia* Lectr
 Blake, D. J., BS *Harv.*, MA *Missouri*,
 PhD *Calif.* Lectr
 Fan, S. C., MS PhD *Corn* Lectr
 Ng, H. W., BCom *Melb.*, MSc(Econ) *Lond.*
 Asst. Lectr.

Education

Green, T. L., BSc MA *Brist.* Prof.
 Tai, C. H., BA *Peking*, MA EdD *Col.* Sr Lectr.
 Wong, Ruth H. K., BA *Belf.*, DipArts Lectr
 Gregory, J. S., BA DipEd *Lond.* Lectr.
 Geh, Mrs. Siok Tin, BA DipEd Asst. Lectr.
 de Cruz, R. M., BA DipEd Asst. Lectr.
 Luok, Grace, BSc DipEd Asst. Lectr.
 Patel, Mrs. Yvonne, BA *Nott.*,
 CertEd *Lond.* Asst. Lectr.

English

Enright, D. J., MA *Camb.*,
 DLitt *Alexandria* Prof
 de Chickera, E. B., BLitt *Oxon.*, BA *Lond.* Sr. Lectr
 Huang, R., MA *Conn.*, PhD *Northwestern* Sr Lectr
 Painter, A. B., MA *Camb.* Lectr.
 Baker, M., BA *Lond.*, DipArts Lectr
 Francis, C. J., MA PhD *Manc.* Lectr
 Sherry, N., BA *Durh.* Lectr
 Rawlinson, D. H., BA DipEd *Camb.* Asst. Lectr.
 Pannell, R., BA *Oxon* Asst. Lectr.

Geography

Wikkramatileke, W. A. R., BA *Ceyl.*,
 MA *Clark*, PhD *Lond.* Prof
 Ooi, J. B., DPhil *Oxon.*, MA Lectr
 Lee, Y. L., BLitt *Oxon.*, MA Lectr
 Nossin, J. J., MSc *Amst.*, ScD *Ley* Lectr
 Sandhu, K. S., MA *Br. Col.*, BA Lectr
 Neville, R. J. W., MA *N.Z.* Asst. Lectr.

History

Tregonning, K. G., BA *Adel.*, BLitt *Oxon.*,
 PhD Prof.
 Thio, Eunice, MA *Harv.*, PhD *Lond.*, BA Lectr
 Wong, L. K., PhD *Lond.*, MA Lectr.
 Suntharalingam, R., BA Asst. Lectr.
 Jeyaratnam, K., MA *Br. Col.*, PhD *Lond.*,
 BA Asst. Lectr.
 Machin, G. I. T., BA *Oxon.* Asst. Lectr.
 Wen, C. C., MA *Camb.* Asst. Lectr.

Law

Sheridan, L. A., LLB *Lond.*, PhD *Belf.* Prof
 Groves, H. E., AB *Colorado*, JD *Chic.*,
 LL.M. *Harv.*
 (Constit. Law) Asia Foundation Prof.
 Green, L. C., LLB *Lond.* (Internat. Law) Prof
 Bartholomew, G. W., LLB *Lond.*,
 LL.M. *Tar.* Sr Lectr.
 Chua, B. L., MA LLB *Camb.* Lectr.
 Glos, G. E., BA *JUD Prague*, LL.M. *Yale* Lectr.
 Li, C., LL.M. *JSD Yale* Lectr.
 Brown, B. J., LLB *Leeds* Asst. Lectr.
 Athulathmudali, L. W., BA BCL *Oxon*
 Ellinger, E. P., MJur *Jerusalem* Asst. Lectr.
 Huang, Miss Su-Mien, LLB Asst. Lectr.

Mathematics

Pedoe, D., BSc *Lond.*, BA PhD *Camb.* Prof.
 Diananda, P. H., BSc *Lond.*, MA
 PhD *Camb.* Reader
 Guy, R. K., MA *Camb.*, DipEd *Birm.* Sr Lectr
 Guha, U. C., MSc *Calc.*, PhD *Lond.* Sr Lectr.
 Lancaster, P., MSc *Liv* Sr. Lectr.
 Wicks, M. J., MSc *Brist.* Lectr
 Brody, E. J., BS *Calif.*, PhD *Prim* Lectr
 Oon, Miss Lay Yong, BA *Camb.* & *Malaya*
 Asst. Lectr.

Pharmaceutics

Elliott, T H, BSc <i>Rand</i> , PhD	Prof
Robertson, J S, BSc <i>Lond</i>	Lectr
Wan, S C, BPharm <i>Nott</i> , PhD	Lectr
Hanani, J, BPharm <i>Lond</i> , DipPharm	Lectr
Tao, Mrs Chuen Chi, BPharm <i>Lond</i>	Lectr
Natarajan, P N, MPharm <i>Ban</i> , DrResNat <i>Mun</i>	Asst Lectr
Mitchell, A G, BPharm PhD <i>Lond</i>	Asst Lectr
Wan, Mrs Lucy, BPharm	Asst Lectr

Philosophy

Hartland-Swann, J J, BA PhD <i>Lond</i> , BLitt <i>Oxon</i> , FRSL	Prof
Rankin, K W, MA PhD <i>Edin</i>	Sr Lectr
Khan, R F, MA <i>Bom</i> , PhD <i>Lond</i>	Lectr
Cioffi, F, BA <i>Oxon</i>	Lectr
Ho, W M, MA	Asst Lectr

Physics

Gatha, K M, BSc <i>Ban</i> , MS <i>Pitt</i> , PhD <i>Cahf</i>	Prof
Hon, Y S, BSc <i>Lond</i> , MSc	Sr Lectr
Ho, P Y, MSc PhD (Hist of Sci.)	Reader
Lam, Y K, MSc PhD <i>Melb</i>	Lectr
Rajaratnam, A, PhD <i>Lond</i> , MSc	Lectr
Chong, A Y J, MSc	Lectr
Sen, K K, MSc DPhil <i>Calc</i>	Lectr
Huq, M, MSc <i>Dacca</i> , PhD <i>Burm</i> .	Lectr
Lee, Mrs Engeline, MSc	Asst Lectr

Political Science

Mulne, R S, MA <i>Oxon</i> .	Prof
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Social Studies

Robertson, Jean, MA <i>Glas</i>	Sr Lectr, Hd of Dept
Wee, Mrs. Ann, BSc(Econ) <i>Lond</i>	Lectr
Fox, W. G., DipSocSci <i>Wales</i>	Lectr
Wuayewardene, G E T, BA <i>Camb</i> .	Lectr

Zoology

Johnson, D. S., MA <i>Camb.</i> , PhD <i>Lond</i>	Prof.
Chuang, S H, BSc <i>Amoy</i> , MSc <i>Brist</i> , PhD	Reader, Hd of Dept
Sharma, R. E., BSc <i>Edin</i> .	Sr Lectr
Fernando, C H, BSc <i>Ceyl</i> , DPhil <i>Oxon</i>	Lectr
Murphy, D H., BSc <i>Durh</i>	Lectr
Vigneswaran, K, BSc <i>Ceyl</i>	Asst. Lectr

MEDICINE**Anæsthetics**

D'Bras, B E G, MB BS <i>Madr.</i> , FFARCS	†Lectr.
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Anatomy

Ellis, A R, MB ChB <i>N Z</i> .	Prof.
Thambipillai, V., DipPhysAnthrop <i>Oxon</i> , LMS	Sr. Lectr.

Mohruddin, A, MB BS *Osm*, PhD *Lond*.

Chua, Miss Sui-Kim, MB BS	Sr Lectr
Ramsbotham, Mrs Maria, MD <i>Odessa</i>	Lectr
Patel, B, MB ChB <i>Glas</i>	Asst Lectr.
Ahmed, M M, MB BS <i>Karachi</i>	Asst Lectr
Wong, W C, MB BS	Asst Lectr
Krishnamurthi, A, BSc MB BS <i>Madr</i>	
Cheng, B S L, MB BS	Asst Lectr

Bacteriology

Lim, K A, BSc MB ChB <i>Edin.</i> , DipBact <i>Lond</i>	Prof.
Lee, L H., MB BS	Sr Lectr.
Chan, Y C., BSc	Asst. Lectr

Biochemistry

Dixon, T F, BSc PhD <i>Lond</i> , FRIC	Prof.
Bowness, J. M., BSc PhD <i>Law</i> .	Sr. Lectr
McEvoy-Bowe, E, MSc <i>N U.I.</i> , PhD	Lectr
Loke, K H, PhD <i>Edin</i> , MSc	Lectr.
Wong, Miss Hee Aik, PhD <i>Lond</i> , BSc	Lectr
Griffiths, L. A., BSc PhD <i>Law</i>	Lectr
Carnegie, P R, BSc <i>St.And</i>	Asst. Lectr.

Dermatology**Medical Jurisprudence**

Gellei, B	†Lectr.
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Medicine

Ransome, G. A., FRCP	Prof
Danaraj, T J, MD LMS, FRCPEd	Sr Lectr
Wong, P K, MB BS, MRCP	Lectr

Medicine, Clinical

Monteiro, E S, DCH <i>Lond</i> , MD LMS, FRCP, FRFPGS <i>Glas</i>	Prof
Khoo, O T, MD LMS, FRFPGS <i>Glas</i> , MRCPed	Sr Lectr
Toh, C C. S., MB BS <i>Syd</i> , MRCP	Lectr

Obstetrics and Gynaecology

Tow, S. H., MB BS Lectr, Actg Hd of Dept.	Prof.
Chakravorty, A P, MB BS DGO MO <i>Calc</i>	Lectr

Ophthalmology

Loh, R. C K, MB BS <i>Bom.</i> , FRCSEd	†Lectr.
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Oto-Rhino-Laryngology

Seow, L J, MB BS, FRCSEd	†Lectr.
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Pædiatrics

Quah, Miss Quee Guan, LMS, MRCPed	Lectr.
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Parasitology		Psychological Medicine	
Desowitz, R S, BA <i>Buffalo</i> , PhD <i>Lond</i>	Prof	Wong, Y C, MB BS, MRCPed	†Lectr
Zaman, V, MB BS <i>Karachi</i> , PhD			
DTM&H <i>Edn</i>	Lectr		
Pathology		Social Medicine and Public Health	
Shanmugaratnam, K., PhD DCP <i>Lond</i> , LMS MD	Prof	Danaraj, Mrs. Winifred, MPH <i>Hav.</i> , DCH <i>Lond</i> , LMS	Prof
La'Brooy, E B, DCP <i>Lond</i> , MB BS	Lectr	Polunin, I V, DM BCh MA BSc <i>Oxon</i>	Sr. Lectr
Muir, M S, MB ChB <i>Glas</i>		Tye, C Y, BA	Lectr
(Asst Curator, P Museum)	Lectr	Ng, C H, MB BS <i>China</i> , DTM&H <i>Lond</i> , DPH	Lectr
Thomas, M A, BA MB BS <i>Madr</i>	Lectr	Ang, Mrs Jiak Woon	Asst Lectr
Tock, E P C, MB BS	Asst Lectr		
Pharmacology		Surgery	
Lin, R C Y, BSc <i>Peking</i> , PhD <i>Camb</i>		Yeoh, G S, MA MB BChir <i>Camb</i> , FRCS, FRACS	Prof
	Sr Lectr, Hd of Dept	Yong, N K, MB BS, FRCS	Lectr
Yeoh, T S, MB BS	Lectr	Yeoh, K S, MB BS <i>Syd</i> , FRCS	Lectr
Ogle, C W., MB BS	Asst Lectr	Chan, K T, MB BS, FRCS	Lectr
Physiology		Surgery, Orthopaedic	
Kenney, R A, BSc PhD <i>Birm</i>	Prof	Gunn, D R, MB ChB <i>Edn</i> , MChOth <i>Lto</i> , FRCSEd	Prof
Lee, T S, PhD DipSc	Sr. Lectr	Khong, B T, LMS	Res Assoc
Toh, C C, PhD <i>Lond</i> , DipSc	Reader		
Kim, K S, MD <i>Seoul</i> , MS PhD <i>Ill</i>	Lectr		
Ng, B C, MB BS	Lectr		
Tan, Mrs Pui Yong, BSc <i>Lond</i>	Lectr		
Elliott, Miss Annie, BSc <i>Lond</i>	Lectr		
Teo, B H., MB BS	Asst. Lectr	Venereal Diseases	
Cheah, Dolly, MSc <i>Adel</i>	Asst Lectr	Koh, K Y., LMS	†Lectr

ADMINISTRATIVE AND OTHER STAFF

Health Physician Z N. Kadri, MD BS *Bom*, DTM&H Asst Registrars B R Marks, BA; Mrs. Yee-Teh Lu Sinclau, BA *Syd*, MA *Yale*, K. G. Lie, BCom MA *Edn* Admin Assts. V R Grosse, K K Chan, BA; T S Chan, D P Wyatt, BA, Y W Choo Asst. Lib-

rarians Isobel Andrews, MA *NZ*, Mrs Wang-Chen Hsu Chin, LLB *China*, MA *ML Wash*, Miss Kho Lian Tie, BA *Indonesia*, ML *Wash* Library Assts O S Tan, O C Khoo, BSc, Mrs. P Lim, BA. Estate Officer K S Cheng, BSc *H.K*

GENERAL INFORMATION

The Univ. of Malaya in Singapore was estab. on Jan 15, 1959, as a division of the Univ. of Malaya. See also under Univ. of Malaya, above.

The powers of the div include the provision of courses of instructn, the admission of students thereto and the appt. of teachers.

CONSTITUTION The divisional council is the executive body of the div and exercises all the powers of the div. except those which are allotted by the constitution or by statute to another authority. The membership of the divisional council is widely representative. The divisional senate is the academic body of the div and has control of the general direction of instructn and res. It is composed of the profs and hds of depts and some non-professional members.

The chief executive and academic officer of the div. is the principal, who is *ex officio* a member

of the divisional council and chairman of the divisional senate.

FINANCE. See under Univ. of Malaya, above.

FACULTIES AND DEANS. *Arts*, Prof T. B. Lam (econ), *law*, Prof L. A. Sheridan, *med.*, Prof E. S. Montano (clin med.), *sci.*, Prof H B Gilliland (bot)

UNIVERSITY PRECINCT The bldgs of the 2 former colls in Singapore are still being used, but there has been considerable devel on these sites.

New bldgs completed on the Raffles Coll site include a large new multi-storey sci. block with associated lecture theatres, the addn of new wings to the Oei Tiong Ham bldg for use of the library and admin (the Oei Tiong Ham bldg. is now under renovation and when work is completed it will house the entire admin of the univ.);

2 new student culls (Raffles Hall for men and Busoff Coll for women). At the med coll site a pathol bldg, built in conjunction with the Singapore govt, has been completed. The new inst of health was opened in 1958 and is shared by the univ's dept of soc med & pub health, the Singapore govt sch health services and the maternity & child welfare section of the city council. King Edward VII Hall, a residential coll mainly for med students in their clin yrs, was formally opened in 1957. Remodelling of the main bldgs provided addnl space for the library and for lecture theatres.

GEOGRAPHICAL LOCATION. The facs of arts, sci and law and the admin offices are on the Raffles Coll site of about 80 acres at Cluny Rd 10, while the facs of med is on the former coll of med, site, 4 miles away at Sepoy Lines 3.

LIBRARY. Main library (for arts, sci, law), 120,300 vols plus Chinese collection of 130,000 Med and dent library (on fac of med site), 45,200 vols. In addition, about 30 dept libraries with from a few hundred to a few thousand vols.

LABORATORIES, MUSEUMS. Zool field labs. at King George V natnl park, Pahang and Raffles Light, Singapore, pub health museum, Keith (pathol) museum; D S I R radio res. substation (in assoc with dept of phys), art museum.

TEACHING HOSPITAL. The main univ teaching hosp providing facilities for undergrad or post-grad teaching is the Govt General Hosp in Singapore, other hosps used for teaching purposes are Kandang Kerbau Hosp (obstet & gynaeol), Woodbridge Hosp (mental dis), Middle Road Hosp (V D) and Tan Tock Seng Hosp (infectious dis). Certain govt hosps in the Federation of Malaya are recognized as providing facilities for trg prior to registration.

ADMISSION. Candidates are ordinarily required to take the Camb overseas high sch cert exam which is regarded as the univ entrance exam. For admission to 1st-yr courses, candidates must have passes in either 2 subjs at principal standard or one subj at principal standard and 2 subjs at subsidiary standard. A pass in the gen paper is desirable but not compulsory. For sci and engin the subjs must be chosen from a list. Exemption from 1st-yr and admission to 2nd-yr courses in sci, med, dent and pharmacy candidates must have full cert with passes in the gen paper and either 3 subjs at principal standard or 2 at principal standard and 2 at subsidiary standard, the subjs being chosen from a list.

Non-graduating courses are provided in the facs of arts and sci and admission to these is subject to the approval of the dean concerned.

FIRST DEGREES (of Univ. of Malaya) BA gen and hon.—3 yrs. Gen. degree in 2 principal subjs and 1 subsidiary subj. Hons. degree in 1 subj. chosen from Chinese, econ., Engl., geog., hist., math., philos. BSc pass—3 yrs. from admission to 1st yr., 2 yrs. from admission to

2nd yr.; hons.—after 4th yr. Pass degree in 2 subjs, hons degree in 1 subj, chosen from biochem., bot., chem., geog., maths., phys., physiol., zool. MB BS—6 yrs from admission to 1st yr, 5 yrs from admission to 2nd yr. BDS—5 yrs. from admission to 1st yr, 4 yrs. from admission to 2nd yr. LLB—4 yrs. BPharm—4 yrs. from admission to 1st yr., 3 yrs. from admission to 2nd yr.

HIGHER DEGREES (of Univ. of Malaya) Open to grads, MA, MSc, LL.M (1 yr's residence), PhD (2 yrs' residence); open to grads of 3 yrs' standing—MD, MSc, MDS—open to masters or PhDs of 5 yrs. standing—DSc, DLitt, DDSc, LLD. Dipl holders of the King Edward VII Coll of Med (LMS) and of Raffles Coll (DipArts and DipSc) and grads of other univs. may also be admitted to higher degrees of this univ.

HONORARY DEGREES. The univ. may confer any degree as an hon. degree.

DIPLOMAS (of Univ. of Malaya). *Educn (1 yr), open to grads. Pub. health (1 yr), open to med. grads. Soc. studies pt I (2 yrs), open to grads and suitable non-grads, pt. II (sp studies) after addnl yr. The King Edward VII Coll of Med, until its incorporation in the Univ. of Malaya in 1949, granted a licentiate in med. and surg (LMS) and a licentiate in dent. surg. (LDS), Raffles Coll. granted a dipl. in arts (DipArts) and in sci (DipSc).

RESEARCH. Ample facilities for res. in most depts.

STUDY LEAVE. Permanent staff eligible for study or alternatively sabbatical leave on full salary at the rate of 5 wks. for each yr's service. New scheme provides for overseas or study leave of about 6 mos after 3 yrs.

FEES. Tuition, including students' union BA, LLB and BSc courses, also dipl courses in educn and soc studies, approx £56 5s p.a., MB BS, BDS and BPharm, also dipl course in pub. health, £66 15s p.a. Higher degrees, res fees, £17 10s—£35 p.a. depending on degree, exam fees, MA, MSc, MEd, £17 10s., PhD, £23 5s., DLitt, DSc, MD, MS, MDS, £35.

ACADEMIC YEAR. May–April 3 terms; May–July, Aug–Oct., Nov.–Jan.

ADULT EDUCATION. An active interest is taken in the adult educn movement in Singapore, members of the univ staff assisting in the teaching work. In conjunction with the govt dept of broadcasting, radio courses have been conducted from time to time.

SCHOLARSHIPS, BURSARIES, ETC. The Univ. of Malaya in Singapore offers annually a number of entrance scholps. on the results of the univ entrance exam. The govts of Singapore and the Fed. of Malaya offer bursaries to suitable candidates requiring financial aid.

APPOINTMENTS BOARD A register of prospective candidates is kept and vacancies are communicated by circular

GRADUATES' ASSOCIATION The Univ. of Malaya society has now replaced the Stamford club and the King Edward VII alumni assocn. All grads of the former colls. and of the Univ of Malaya may be admitted to the new soc

STUDENT RESIDENCES Men Dunearn Rd, King Edward VII Hall, Raffles Hall, Kandang Kerbau Clinical Residence. Women Eusoff College, 10 College Rd.

STAFF RESIDENCES At present approx 165 units of housing for academic staff.

STUDENT HEALTH SERVICE The univ operates a student health service under a full-time med officer. Med exam is compulsory for 1st-yr students and optional for others. Two dispensaries are available for routine treatment.

STUDENTS' UNION The 2 divs have separate students' unions. Each is administered by a students' council consisting of 25 to 30 students elected annually. The students' council appoints an executive ctee and certain other standing and sp ctees. There are socs to cater for the social, athletic and other activities of students

PUBLICATIONS *Calendar* (May)

THE YEAR 1960

RETIREMENTS. Prof T. H. Silcock (econ), Prof B. H. Sheares (obstet & gynæcol), Prof A. A. Sandosham (parasitol), Prof R. Kirk (pathol)

RESIGNATIONS Prof D. W. Gould (physiol), Prof T. A. Lloyd Davies (soc med & pub health), Prof A. G. Karlen (orthopaedic surg), Prof. R. D. Purchon (zool); Dr W. D. S. Stewart (educn.), Dr Jean Millis (soc med. & pub health), Y. Cohen (surg)

HONORARY DEGREES See p. 657

Statistics

STUDENT NUMBERS, 1960-61		
	Full-Time	Part-Time
Men	1181	34
Women	424	2
Total	1605	36

Distribution by Faculties, etc *Arts*, 402, *dent*, 111, *educn.*, 77; *law*, 227, *med*, 530, *pharm.*, 52, *sci*, 242. Total 1641

Included in the figures above are —

Postgraduate students, 86
New admissions, 551
Students from other countries, 24.

DEGREES AWARDED (1959-60) *Arts*, 308; *dent*, 20, *med*, 90, *pharm*, 4, *sci*, 83.

DIPLOMAS AWARDED (1959-60) *Educn.*, 59; *pharm*, 6, *pub health*, 6, *soc studies*, 13

[Information compiled as at 21/8/61]

UNIVERSITY OF MALAYA IN KUALA LUMPUR

Established 1959

Postal Address · Pantai Valley, Kuala Lumpur, Malaya

Cables and Telegrams · Univsel, Kuala Lumpur

Telephone · Kuala Lumpur 89361

CHAIRMAN OF DIVISIONAL COUNCIL—TUAN HAJI MUSTAPHA ALBAKRI, CBE, Hon. LLD

VICE-CHANCELLOR OFFICIATING AS PRINCIPAL—SIR ALEXANDER OPPENHEIM, OBE, MA DSc Oxon, PhD Chic., Hon. DSc

DEPUTY PRINCIPAL—C. J. ELIEZER, MA PhD Camb, DSc Lond

REGISTRAR—FOO YEW YOK, DipArts

TEMPORARY BURSAR—WONG PAK CHOY

LIBRARIAN—W. J. PLUMBE, FLA

TEACHING STAFF

Accounting and Business Administration		English	
Seconded by Canadian govt under Colombo Plan		Le Page, R. B, BA <i>Oxon</i> , PhD <i>Brim.</i>	Prof
Wong, Prof L J G.		Evans, E C., BA <i>Wales & Oxon</i>	Reader
Beedle, Prof. A		Price, A W, BA <i>Rand, MA</i>	Lectr
Hughes, Dr W		Waldo, G S, BA <i>Hamilton, MA Col</i> , PhD <i>Lond</i>	Lectr
Agriculture		Geography	
Davies, G M., DFC, BAgriSc		Consigliere, Miss M T, BA <i>Camb & Malaya, CertEd Camb</i>	Asst Lectr.
DipVFM N Z	Prof	Feinando, L, BA	Asst Lectr.
Kelley, R B, OBE, DVSc <i>Melb.</i>	Sr. Lectr	Ormerod, D A, BA <i>Oxon</i>	Asst Lectr
Bevan, J W L, BSc <i>Wales</i>	Lectr	Geology	
Enoch, I, BSc <i>Wales</i>	Lectr	Ho, R, MA <i>Lond</i> , DipArts	Prof
Moir, G F J, BSc <i>Syd</i>	Lectr	Gosling, L A P	Visiting Prof.
Joseph, K T, BAgriSc <i>W Aust</i> , MAgrSc <i>Adel</i>	Asst Lectr	Dale, W L, MBE, MSc <i>Lond</i>	Sr Lectr.
Karim, M Z b H. A., BAgriSc <i>N Z</i>	Asst. Lectr	Sendut, H, MCD <i>Liv</i> , BA	Lectr
Varghese, G, BSc <i>Madr</i> , MSc <i>Iowa</i>	Asst Lectr	Fryer, D W., MSc <i>MCom Melb</i> , PhD <i>Lond</i>	Lectr
Botany		Jeyatheva, S, BSc <i>Ceyl</i> , MA <i>Calif</i>	Asst Lectr
Poore, M E D, MA PhD <i>Camb.</i>	Prof	Jackson, J. C, BA <i>Sheff</i> , MA <i>Leic</i>	Asst Lectr.
Carrick, J, BSc <i>Glas</i>	Sr Lectr	McGee, T G, MA <i>N Z</i>	Asst Lectr.
Griffiths, D. A., BSc PhD <i>Wales</i>	Lectr	Geology	
Jong, K, BSc <i>Rand</i>	Lectr	Berry, E W, PhD <i>Yohns H</i>	Visiting Prof
Merton, L F H, MA <i>Camb</i>	Lectr	Hutchison, C S, BSc <i>Aberd</i> , FGS	Lectr
Turmau, E A, MSc <i>McG</i>	Lectr	Gobbett, D J, BA <i>Camb</i>	Lectr
Chemistry		Leow Jwee How, BSc <i>W Aust</i> , FGS	Asst Lectr
Huang, R L, BSc <i>H K</i> , DPhil <i>Oxon</i> , DSc, FRIC	Prof	History	
Morsingh, F, DPhil <i>Oxon</i> , MSc	Sr Lectr	Bastin, J S, MA <i>Melb</i> , DLitt <i>Ley</i> , DPhil <i>Oxon</i> .	Prof
Lee, K H, MA <i>Harv</i> , MSc	Lectr	Wheatley, P, MA PhD <i>Lond</i>	Visiting Prof
de Souza, J B, MSc <i>H K</i> , PhD <i>Syd</i>	Lectr	Mayer, G H, BA <i>Pomona</i> , MA <i>Claremont</i> , PhD <i>Minn</i>	Visiting Prof
Treloar, F E, BSc PhD <i>Adel</i>	Lectr	Lamb, A, MA PhD <i>Camb</i>	Reader
Ong Soon Hook, Augustine, MSc	Asst Lectr	Wang Gung-wu, PhD <i>Lond</i> , MA	Sr. Lectr.
Economics		Bassett, D K, BA <i>Wales</i> , PhD <i>Lond</i>	Lectr
Ungku Abdul Aziz bin Abdul Hamid, DipArts, BA	Prof	Turnbull, Miss C M, BA <i>Lond</i>	Lectr
Agarwal, M C., MSc(Ag) PhD <i>Calif</i>	Lectr	Frodsham, J D, BA <i>Camb</i>	Lectr.
Gilani, S J, BA <i>Patna</i> , MA <i>Sind</i> , PhD <i>Lond</i> .	Lectr	Short, A, BSc <i>Eve & Lond</i> , MA <i>Vingma</i> , BLitt <i>Oxon</i> .	Lectr.
Sayana, V V, MA <i>Ban</i> , PhD <i>Bom</i>	Lectr	Indian Studies	
Yip Yat Hoong, MA	Lectr	Thanji Nayagam, X S, MA MLitt <i>Annan</i> , DD <i>Rome</i> , PhD <i>Lond</i>	Prof.
Lam Chong Yah, BA	Lectr	Palani, U, MA <i>Madr</i> , BOL <i>Annam</i>	Lectr
Ma, R, BCom	Lectr	Hameed, S, MA <i>Madr</i>	Asst Lectr
Lo Sum Yee, BA <i>H K</i> , MA <i>Lond</i>	Asst Lectr	Viswanathan, E. S, MA <i>Madr</i>	Asst Lectr.
Engineering		Islamic Studies	
Gray, C. A. M., BSc ME <i>Syd</i>	Prof	Rauf, M A, Al-Alayah <i>Al-Azhar</i> , MA <i>Camb</i> , DipEd	Hd of Dept
Hu, P. Y., SB <i>M.I T</i>	Visiting Prof	Hassan, S. A., MA <i>Madr</i> , PhD <i>Camb</i> .	Lectr.
Chin Fung Kee, MSc DipArts	Sr Lectr	Malay Studies	
Huang Han-Chao, BSc <i>Nanking</i> , PhD <i>Lond</i>	Sr Lectr.	Roolvink, R, BA <i>Ley</i> , MA DLitt <i>Utrecht</i>	Prof.
Chin, T K, BSCE <i>Ohio</i> , MS <i>Iowa</i>	Lectr	Mees, C A, MA <i>Ley</i> , DLitt <i>Utrecht</i>	Sr Lectr.
Lee, M. B, BSME <i>Purdue</i> , MSE <i>Mich.</i>	Lectr	MALAYA	
Lowe, G, BE PhD <i>N Z</i>	Lectr		
Tai, K C, BE <i>Syd</i>	Lectr.		
Navaratnarajah, V, BSc(Eng)	Lectr		
Singarajah, C, BSc(Eng)	Lectr		
Jeyarasasingam, K, BSc(Eng)	Asst Lectr.		

Mohd Zakī Badawī, Al-Ahyah Al-Almīyah
Al-Azhar Lectr
 Skinner, C, BA Lond, DipOS Sch of
O & A Studies (Lond) Lectr
 Ismail bin Hussein, BA Asst Lectr
 Mohd Taib bin Osman, BA Asst Lectr
 Tjoa Soei Hock, MA *Utrecht*,
 MSS Inst for Soc. Studies (The Hague)
 Asst Lectr

Mathematics

Ehezzer, C J, MA PhD Camb, DSc Lond Prof
 Skyrme, T H R, BA Camb Sr Lectr
 Hoe, J, MSc NZ, MA Lectr
 DiplMathStats Camb Lectr
 Jha, P, MA PhD Patna Lectr
 Toh Kheam Hoo, MSc Asst Lectr

Philosophy

Warner, D H J, MA St And, BLitt
 BSc Oxon. Lectr-in-Charge

Physics

Thong Saw Pak, PhD Belf, BSc DipSc,
 FIP P1of
 Roy, S K, MSc PhD Patna Sr Lectr
 Singh, C, MSc Lectr
 Skyrme, Mrs D M., BSc PhD Lond Lectr
 Chan Yoong Meng, Mrs, MSc Asst Lectr
 Teh Hock Heng, MSc Asst Lectr

Zoology

Hendrickson, J R., BSc Arizona, MA
 PhD Calif Prof
 Berry, A J, BSc PhD Lond Lectr
 Bullock, J A, DIC, BSc Lond Lectr
 Dhalwal, S S., PhD Edin, MSc Lectr
 Gathorne Gathorne-Hardy, Lord Medway,
 MA Camb, PhD Birm Lectr
 Rohde, K, DrRerNat Mun Lectr
 Berry, Mrs P Y, BSc DipEd Asst Lectr

ADMINISTRATIVE AND OTHER STAFF

Asst. Registrars C. T. Lim, BA, T S Teh,
 DipSc*, R S Nathan, BA. Asst Bursar
 H T Cheah Admin Assts R C Daniel,
 K S Kong

LIBRARY STAFF. Asst. Librarians Mrs. H.
 Anuar, BA, FLA, B. Lim, BA. Library Assts.
 K M. Chan, BSc; C H. Ee; B. Gopal, BA,

H. T. Lim, BA, W. M. Soong, BA, D. E. K
 Wijesuriya, BA Ceyl.

RESIDENTIAL COLLS. Domestic Managers
 H K Lim, Mrs M Yeow

HON. STUDENT HEALTH PHYSICIAN T. W
 Lim, MB BS

GENERAL INFORMATION

The Univ of Malaya in Kuala Lumpur was
 established on Jan 15, 1959, as a division of the
 Univ. of Malaya See also under Univ of Malaya,
 above.

CONSTITUTION The Kuala Lumpur div. is
 largely responsible for its own affairs and has its
 own council and senate

FINANCE See under Univ of Malaya, above.

FACULTIES AND DEANS Arts, Prof J S Bastin
 (hist), engin., Prof C A M Gray, sci, Prof
 C J Ehezzer (maths.) Non-fac dept agric,
 Prof G. M. Davies, head of dept

UNIVERSITY PERCINCT The Univ of Malaya
 in Kuala Lumpur is situated in the Pantai Valley
 which is about 3 miles from the gen post office
 and nr the newly constructed fed highway link-
 ing the fed capital with the royal town of Klang.
 The main bldgs. of the univ are on elevated
 ground facing a central valley which has been
 converted into an artificial lake. A ring road
 affords access to the various bldgs. 1st residential
 coll, 2nd residential coll, fac. of engin., fac. of
 arts, library, fac. of sci., dept. of agric.

LIBRARY 45,911 vols

ADMISSION. Candidates are ordinarily required
 to take the Camb oversea higher sch. cert exam
 which is regarded as the univ. entrance exam.
 For admission to 1st-yr. courses, candidates must
 have passes in either 2 subjs at principal standard
 or one subj at principal standard and 2 subjs at
 subsidiary standard. A pass in the general paper
 is also desirable. For sci, engin. and agric there
 are sp fac requirements to be fulfilled. Exem-
 ption from 1st-yr and admission to 2nd-yr courses
 in sci and agric. candidates must have full cert.
 with passes in either 3 subjs. at principal standard
 or 2 at principal standard and 2 at subsidiary
 standard, the subjs being chosen from a list. A
 pass in the gen paper is also desirable.

Non-graduating courses are provided and ad-
 mission is subject to the approval of the dean (or
 hd. of non-fac. dept) concerned

FIRST DEGREES (of Univ of Malaya). BA gen.
 and hons—3 yrs Gen. degree in 2 principal
 subjs and 1 subsidiary subj Hons. degree in 1
 subj chosen from econ, Engl, geog, hist, Indian
 studies, Islamic studies, Malay studies, maths.
 BSc pass—3 yrs. from admission to 1st yr, 2 yrs.
 from admission to 2nd yr, hons.—after 4th yr

* On secondment to central secretariat of univ. (see p 656)

Pass degree in 2 subjs, hons degree in 1 subj. chosen from bot., chem., geog., geol., maths, phys., zool. BE—4 yrs BAgSc—pass degree or hons.—4 yrs.

HIGHER DEGREES (of Univ. of Malaya) Open to grads, MA, MSc, MAgSc, MEngSc (1 yr's residence), PhD (2 yrs' residence), open to masters or PhDs of 5 yrs' standing—DSc, DLitt. Grads of other univs may also be admitted to higher degrees of this univ

HONORARY DEGREES The univ may confer any degree as an hon. degree

RESEARCH. Facilities for res available in most depts.

STUDY LEAVE Permanent staff eligible for 'study' or 'overseas' leave on full salary at rate of about 6 months for every 3 yrs.' service

FEES. Tuition, including students' union BA, BSc, BE and BAgSc courses, about £56 5s. p a. Higher degrees, res fees, £17 p a depending on degree, exam fees, MA, MSc, £17 10s, PhD, £23 5s, DLitt, DSc, £35

ACADEMIC YEAR. May to Jan 3 terms, May-July, Aug-Oct., Nov.-Jan.

SCHOLARSHIPS, BURSARIES, ETC The univ offers annually a number of entrance scholps. on the results of the univ entrance exam The govts. of Singapore and the Fed. of Malaya offer bursaries and scholps to suitable candidates requiring financial aid Scholps also offered by firms, etc

APPOINTMENTS BOARD registers prospective candidates and vacancies for appts

GRADUATES' ASSOCIATION There is a Univ. of Malaya soc to which all grads. may be admitted.

STUDENT RESIDENCES Men & women 1st residential coll Men 2nd residential coll. Both colls. are in the univ precinct

STAFF RESIDENCES At present, there are 80 units for academic staff In addition, houses are rented by the univ to accomm academic members of staff.

STUDENT HEALTH SERVICE The univ operates a student health service scheme for students living in the residential colls for which a student health service fee of \$6 per term is payable. Under this scheme, the univ provides free med. attention, incl payment of ward charges in case of hospitalization, and runs a clinic in the 1st residential coll. under the charge of the student health physician, assisted by a nurse.

STUDENTS' UNION. All matriculated students are obliged to be members of the Univ of Malaya in Kuala Lumpur students' union This union (which is separate from the students' union in the Univ of Malaya in Singapore) is administered by a students' council consisting of 25 to 30 students elected annually There is an exec cttee. apptd by the students' council and there are also other standing and special cttees as well as socs which cater for soc, athletic and other student activities

PUBLICATIONS. *Calendar*

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS *Bldgs. completed.* extension to arts bldg

HONORARY DEGREES See p 657

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	505	—
Women	149	—
Total	654	—

Distribution by Faculties *Agric*, 27; *arts*, 354; *engin*, 159; *sci*, 114 Total. 654

Included in the figures above are —

New admissions, 146

Students from other countries, 2

DEGREES AWARDED (1959-60) *Arts*, 12; *engin.*, 21

NANYANG UNIVERSITY

Founded 1953

Postal Address : Jurong Road, Singapore, 22

Telephone 68779

CHAIRMAN OF UNIVERSITY COUNCIL—TAN LARK-SYE

VICE-CHANCELLOR—CHUANG CHU-LIN, BA MSc PhD Mich

DEANS OF COLLEGES—ARTS—Y. C. YEN, BA *Nanking*, MEd *Sun Yat-Sen*, PhD *London*, SCIENCE—
(Actg.) PAN PUH, BSc *Nanking*, DSc *Paris*, COMMERCE—FOO VOON-KAI, LLB *Soochow*, BCom *Chin Nan*, JSD *George Washington*

TREASURER—KO TECK-KIN

REGISTRAR—T HSHH JACEN, LLB *Natnl Pol*, BLitt *Oxon*.

TEACHING STAFF

[†=Part-Time]

Banking and Accountancy

Liu Kung-Kwei, BCS *Chi Nan*, MA *Mich*.
Prof, Hd of Dept
Tseng Chi-Tung, BA *Wash*, MA *Harv* Prof
Ting Ding-Chow, BL *Fuh Tan*, BL
BCom *Edin* Prof
Wang Yu-Chun, BA *Natnl Pol*, BA *Ill* Prof.
Foo Voon-Kai, LLB *Soochow*, BCom *Chin Nan*,
JSD *George Washington* Prof
Chang George, BA *Harding*, MA *Oklahoma*
Ong Tiang-Choon, BA *H K* †Lectr.
Lamm Michael, K H, BA *MBA N Y* †Lectr.
Liew Stephen, BA *H K* †Lectr.
Loke Yue Toh Edward †Lectr.
Lam Chor-Pee, BA *Camb* †Lectr.
5 Grad Assts

Lin Shih-Taun, BEng *Sun Yat-Sen*,
MSc *Catech Inst* Assoc Prof.
King Meng-Wu, BSc *Natnl Chekiang*,
MSc *Syr*, MSc *N Y State* Assoc Prof
7 Grad Assts

Chinese Language and Literature

Tu Kung-Sui, BA *Peking* Prof., Hd of Dept
Hsu Yu, BA *Peking* Prof
Kao Hung-chin, BA (Ed) *Natnl. Wo-Chong*
Normal, MA *Col* Prof
Liu Tai-Hee, BA *China Univ. Peking* Assoc Prof
Hwang Sheo-Wu, BA *Natnl Central* Assoc Prof
Chung Kai-Ming, BA *Fuh Tan* Assoc Prof
Chang Sau-Shek Assoc Prof.
Chu Chao-hsiang, LLB *Amoy*,
BA *Natnl S W Union* Assoc Prof.
Tsao Shu-Ming, BA *St John's*, LLB *China*
Lectr
Cheng Ye-Tung, BA *Peking Normal* Lectr
Han Suyin Lectr.
Tung Tao-Chang, BA *Fuh Tan*, MA *Col* †Lectr.
5 Grad Assts

Biology

Huang K H Henry, BA *Nebraska*
Wesleyan, MA *Col* Prof., Hd of Dept
Li Koue-Tehang, DSc *Lyons* Prof
Yen Jo-Mm, BSc *Peking*, DSc *Paris* Prof
Li Liang-Kung, MSc *Lyons* Prof
Harrison, J. L., DSc *London*, ARCS Prof
Tang Ming-Ching, BSc *Arts & Sa. Coll.*,
Canton Lectr
Pan Yi-Ku, BSc *Natnl Central* †Lectr
7 Grad Assts

Chemistry

Wang Yi-San, MS *Mich* Prof, Hd of Dept
Chin Dalgen, MSc *Natnl Kwang* Prof
Hsu Yung-Sui, BSc *Natnl Peking Tech. Inst*,
MSc *Alabama* Prof

Economics and Political Science

Huang Ying-Jung, BA LLB *Soochow*,
JSD *George Washington* Prof, Hd of Dept
Hsieh Jacen T., LLB *Natnl Pol*,
BLitt *Oxon* Prof
Lam Wo-Chiang, MA *Chc*,
JD *Northwestern* Prof.
Liu Ping-Hou, BA *Southwestern*, *McKendree*,
MA PhD *N Y* Prof.
Li Hsiang-Lan, BA *China Natnl*,
MA *Tokyo Imperial* Prof

Tan Tjin Kie, PropCerts <i>Indonesia</i> , DrsEcon <i>E H Rotterd</i>	Assoc Prof.	Hsia Chun-Che, LèsSc DèS <i>Freib.</i>	Prof.
Tang Chih-I, BA <i>Tientsin</i> , DrEcon <i>Bonn</i>		Chun Jung-Lu, BSc <i>Peking Normal</i> , MSc <i>Chie</i>	Prof
Ma Chang-Tsung, MA <i>Natnl Central</i>	Lectr	Chu Ming-Lun, BSc <i>Natnl Chungking</i>	Assoc Prof
Hu Hsiao-Sheng, LLB <i>Amoy</i>	Lectr	Pang I-Pan, BSc <i>Natnl Chiao Tung</i>	Lectr
2 Grad Assts		Loh Hooi-Tong, BA <i>Phillips</i> , MA <i>Oklahoma</i>	Lectr.
Education		Yang Hwai-Nien, BSc <i>Chi Nan</i> , MSc <i>Oregon</i>	Lectr.
Yen, Y C, BA <i>Nanking</i> , MED <i>Sun Yat-Sen</i> , PhD <i>Lond</i>	Prof, Actg Hd of Dept	4 Grad. Assts	
Kong Shiu-Loon, MED PhD <i>Ott</i>	Assoc Prof.		

Modern Languages and Literature

Tsao Pao-Chun, BSc <i>Peking Normal</i> , MA <i>Liv</i>	Prof, Hd of Dept	Jaor Yu Wei, BA <i>Natnl Tang Hua</i> , MA <i>Edin</i>	Prof, Hd. of Dept
Ho Shih-Chun, DèS <i>L Paris</i>	Prof	Amorn Montri, MA PhD <i>McKinley- Roosevelt</i>	Prof
Tchang Hsi-Lun, BSc <i>Sun Yat-Sen</i>	Prof	Saunders, W. A., MA <i>Mich</i>	Assoc. Prof.
Cheng Tsu-Yueh, BSc <i>Peking Normal</i> , MA <i>Arts&Sci Coll Tokyo</i>	Prof	Wong Chung-Lan, BA <i>St John's</i> , MA <i>Penn</i>	Assoc Prof
Yu Hsieh-chung, BA <i>Yenching</i> , MA <i>Colgate</i>	Prof	Serpell, Mrs A. E., BA <i>Lond</i>	Assoc Prof
Hsu Yun Tsiao, BA <i>Soochow</i>	Assoc Prof	Andre Seng, DenDr <i>Paris</i>	Assoc Prof
Cheng Kuang-Yu, MA <i>Chekiang</i>	Assoc Prof	Ramish, L. M., BBE BA <i>Gordon Coll</i>	Lectr
Wu Chung-Hong, BA <i>Amoy</i> , MA <i>Philippines</i>	Assoc Prof	Manan, M. R., BA <i>Indonesia</i>	Lectr
Wu Chung-Tung, BSc <i>Sun Yat-Sen</i>	Lectr	Lae Tywan Sioe, Drs <i>Indonesia</i>	Lectr
Wen Chung-Chi, MA <i>Camb</i>	Lectr	Huang, Mrs E, DipEducn BA <i>Malaya</i> , MA <i>Northwestern</i>	Lectr
2 Grad. Assts		Lian Ie-Ping	†Lectr
		Augustine, R. A, BA BL <i>Trav</i>	†Lectr.
		Tang Pei-Chen, BA <i>Yenching</i>	†Lectr
		Lee Eng Seok-Chee, Mrs, BA <i>Smith</i> , MA <i>Col</i>	†Lectr
		Schultz, F. A., DrPhil <i>Bonn</i>	†Lectr
		3 Grad. Assts	

Industrial Management

Yang, C. F. Chaucer, BA <i>Oregon</i> , MBA N Y, PhD <i>Col</i>	Assoc Prof, Actg Hd. of Dept		
Hsu Paquan S, MA <i>Ohio</i>	Prof		
Williams, Jr., A. L., BA <i>Yale</i> , MS <i>Col.</i>	Lectr		
Henry, H. F. Eng, BA <i>Yale</i>	†Lectr		
DeChant, A. J., BSc <i>Lond</i>	†Lectr		
Thuo Gim-Hock, BEng <i>Malaya</i>	†Lectr		
Peter Leong, BS <i>Carolina</i>	†Lectr		
Lim Hong-Keat, Dip <i>Stan</i>	†Lectr		
Tan Eng-Sing, BSIE <i>Miami</i> , MBA N Y	†Lectr		
3 Grad Assts			

Mathematics

Pan Puh, BSc <i>Nanking</i> , DSc <i>Paris</i>	Prof, Hd of Dept		
--	------------------	--	--

Physics

Choong Shin-Piaw, BSc <i>Peking</i> , DSc <i>Paris</i>	Prof, Hd of Dept		
Liang Shyue-Hsi, BSc <i>Natnl Central</i> , EE <i>Tokyo Tech Inst.</i>	Assoc Prof.		
Chuang Shuyen, BSc <i>Sun Yat-Sen</i> , Teaching Fellow, <i>Univ of Wash</i>	Assoc. Prof		
Lee Han-Kuang, BSc <i>Peking</i>	Assoc Prof.		
Ho Hoh-Shou, BSc <i>Sun Yat-Sen</i>	Lectr.		
Hsueh Yung-Yuan, BSc <i>Chi Nan</i>	Lectr		
7 Grad Assts			

ADMINISTRATIVE AND OTHER STAFF

Chief Business Officer: Andre Seng, DenDr *Paris*. Dir, Preparatory Class: Prof Lu Yin-Soon, BA *Chi Nan*, MA *Col*. Sec to Vice-Chancellor: Tsao Shu-Ming, BA *St John's*, LLB *China*. Sec to Registrar: Ma Chang-Tsung, MA *Natnl Central*. Univ. Health Physician: Ngo Kim-Seng, BSc *Chie*, MD *Wash*. Dir of Phys Educn: Lee Yee-Nam, *Natnl Coll of Phys Educn*. Asst to Dir of Phys Educn: Lim Choo Wah, BCom. Admin

Assts. Lim Kim-Hiong, BA, Yeo Hee-Ching, BA; Ng Kim-Hang, BA, Tan Teng-Hock, BA; Ang Lay-Guat, BA, Wong Ho-Meng, BA; Chang Chin-Chung, BA. Accounting Officers: Chow Sing-Yee, BCom, Lee Hsiang-Ming, BCom. Library Assts. Yap Wuan-Hong, BA, Chee Cheng-Khee, BA. Wardens (Men) Phua Beng-Tee, BA; Lim Chooi-Leong, BA; (Women) Chen Mong-Sing, BA.

AFFILIATED INSTITUTION

INSTITUTE OF SOUTHEAST ASIA, c/o Nanyang Univ., Jurong Rd., Singapore (tel. 68779) (1957)
Dir.—Assoc. Prof. Hsu Yun Tsiao
Function of inst. is to collect source materials on S.E. Asia for res. and reference, and to publish

academic res. papers and reference books. Scope incl. many aspects of S.E. Asia, with sp. reference to hist., geog. and econ. Inst. also intends to assist scholars outside the univ. in their academic res. and surveys.

GENERAL INFORMATION

Established in 1953 to meet the demand for higher educn. for students from both Chinese and English secondary schools in Malaya and neighbouring countries, the univ. owes its origin to Mr Tan Lark Sye, a philanthropist of Singapore who announced that he would subscribe M\$5,000,000 to the univ. funds. The univ. was registered in 1953 in both Singapore and the Fed. of Malaya under the Companies Ordinance and acquired thereby the status of a legal corp. The Singapore Hokien Assocn. donated 500 acres (which now has on it bldgs. & equipment costing about M\$12.3 millions) at 14½ milestone, Jurong Rd., Singapore, for use as the univ. campus.

The Nanyang Univ. Ordinance came into effect in May 1959 and was promulgated in the Singapore govt. gazette.

The univ. consists of 3 colls. (arts, comm., sci.).

CONSTITUTION Supreme governing body is univ. council. Senate, responsible for academic matters, consists of the vice-chancellor (chairman), deans of colls., registrar and hds. of depts.

INCOME (1959). Total income: M\$2,763,413 (contributions, M\$362,058, donations, M\$444,148, fees, M\$1,547,676, interest, M\$20,071, misc., M\$3564, govt. subsidy for 1958 recurrent expenditure deficit, M\$385,896).

COLLEGES AND DEANS. See p. 666.

UNIVERSITY PRECINCT. Colls. of arts, comm., and sci., admin. office, library, clinic, a canteen, and staff and student residences are situated on 180 acres of developed land at 14½ milestone, Jurong Rd., in NW pt. of state of Singapore. Bldg. of auditorium, addnl. admin. block and sports field under consideration.

LIBRARIES. Univ. libr. 105,000 vols. (incl. 70,000 Chinese books), about 30,000 vols. of periodicals, reading rooms. Reference branch libr. in each coll., dept. reference rooms.

LABORATORIES. Biol., chem., phys. 2 sci. museums.

ADMISSION. Grads. of Chinese 3-yr. sr. middle schools, govt. 3-yr. sr. middle schools cert. holders, and holders of a Cambridge Overseas Sch. Cert. with at least 2 credits in certain subjs., are eligible to sit entrance exam for 1st-yr. class of the univ. Students of recognized univs., who have studied for more than 1 yr. and whose scholastic records are considered satisfactory by Nanyang Univ., may sit a transfer exam on passing which they may be admitted to appropriate classes. Grads. of preparatory classes may also

enrol as 1st-yr. students of the univ. Med. exam. of fitness required of all students.

FIRST DEGREES. 4 yrs.—BA, BSc, BCom. The univ. operates an hour-credit system in all colls. Each student must have a minimum of 128 credits before he can sit the graduation exam. (conducted jly. by internal and external examiners).

No HIGHER DEGREES are awarded.

RESEARCH is undertaken by individual members of teaching staff.

STUDY LEAVE may be granted, subject to approval of univ. authority, where it can be arranged without serious inconvenience to work of univ.

FEES (*=for 4-yr. course). Entrance exam., M\$10; caution money, M\$30, lab. deposit (sci. coll.), M\$20, tuition, M\$2880*; lab. fee (sci. coll.), M\$200*, lecture notes, M\$120*, student health, M\$40*, phys. educn., M\$40*.

ACADEMIC YEAR. Feb. to Nov. 2 semesters of 18–19 wks. each.

LANGUAGES OF INSTRUCTION. English and Chinese.

PRINCIPAL 'OPEN' AWARDS. Bursaries offered annually by govt. of Singapore to suitable candidates who are citizens of Singapore studying at Nanyang Univ. Scholps. also offered by foundations, firms, etc.

GRADUATES' ASSOCIATION. Nanyang Univ. grads. guild.

STUDENT RESIDENCES. 19 blocks (men), 6 blocks (women) with total of 968 rooms accommodating 1936 students. Fees (incl. full bd.) M\$70 per month.

STAFF RESIDENCES. All teaching and admin. staff provided with free furnished quarters. 25 bungalows and 176 flats are being brought into use.

STUDENT HEALTH SERVICE. Univ. provides free med. attention, when required, for all students and staff (fee per semester M\$5). Clinic with physician and nurse, dental surgeon.

STUDENTS' UNION. All students of the univ. are members of the Nanyang Univ. students' union, which is administered by a students' council.

PUBLICATIONS. *Annual Report*, *Univ. Regulations*, *Handbook of Entrance Exam*, *List of Graduates*, *Some Aspects of Nanyang Univ.*, *Bulletin of Inst. of S.E. Asia*, exam. question papers.

THE YEAR 1960

PRINCIPAL BENEFACTIONS Total value of all
benefactions received M\$255,120

Distribution by Colleges. *Arts*, 964, *comm.*,
306, *sci*, 690 Total 1960

MAJOR BUILDING DEVELOPMENTS *Bldgs com-*
pleted new sci bldg

RESIGNATIONS. Prof Shih Tzu Yun (Chinese),
Lo Mo Hwa (Chinese), Ca Chi (Chinese), J. C.
Price (Engl), Prof Chow Pei-Gei (econ),
C L. Wong (econ), Prof Lee Jun-Chung
(indust management), Prof H C Ho (bank-
ing), Wen Cheng-Nan (indust management)

Included in the figures above are —

Postgraduate students, nil

New admissions, 583.

Students from other countries, 1130 (Country
from which largest number came Fed of
Malaya, 980)

Statistics

STUDENT NUMBERS, 1961
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	1525	—
Women	435	—
Total	1960	—

DEGREES AWARDED (1960) BA, 179, BCom,
46, BSc, 119

MALTA

Royal University of Malta (p. 672)

ROYAL UNIVERSITY OF MALTA*

Founded 1592, raised to university status 1769

Postal Address: St Paul Street, Valletta, Malta

Cables and Telegrams: University, Malta

Telephones: Central 24066-7, 21201-2

PATRON—H.M. THE QUEEN

CHANCELLOR—H.E. THE GOVERNOR OF MALTA

VICE-CHANCELLOR AND RECTOR MAGNIFICUS—J. A. MANCHE, CBE, Hon LLD *W Ont*, BSc MD

REGISTRAR—L. M. PACE, BSc(Econ) *Lond*.

BURSAR—P. GALEA CURMI

LIBRARIAN—.

TEACHING STAFF

[† = Part-Time]

Anatomy and Histology		Galea, V. R., MA <i>Oxon.</i> , BSc BE&A
Griffiths, V. G., BSc MD, FRCS	†Prof	(Civil Engin.) †Prof
Biochemistry, see Physiol and Biochem.		
Biology		English
Thomas, O. L., MD ChB DPhil	Prof	Beck, R. J., PhD <i>St. And.</i> , MA <i>Oxon</i>
Micallef, H., BSc <i>Lond</i> .	Lectr	Sultana, D. E., MA <i>Oxon.</i> , BSc MD
Austin, A. P., BSc PhD <i>Wales</i>		Farley-Hills, D. L., BA
Chemistry		
Edwards, W. G. H., BSc <i>Lond</i> , PhD	Prof.	Vella, Rev. Fr. A. P., BLitt <i>Oxon</i>
Jaccarini, A. P., BSc BPharm MD	Lectr.	
BA <i>Lond</i>	Lectr	Italian Literature
Classics		di Pietro, A., DLitt <i>Sacred Heart (Milan)</i> , LabDoc
Coleiro, Most Rev. Mgr. E., PhD <i>Lond</i> , BA BLCan DD	Prof	
Seaston, Rev. G. J., MA <i>Camb</i>	Prof	Law
Dentistry		Cremona, F., LLD
Mangion, J. J., BSc MD, FDSRCS	(D. Surg.) †Prof.	(Comm. L.) †Prof
(Operative D. Surg.)	Lectr.	(Civil L.) †Prof
Economics and Statistics		(Crim. L.) †Prof
Cirillo, Rev. R., MSc(Econ) <i>Lond.</i> , BSc(Pol) <i>Louvain</i> , BA DD	Lectr.	(Science of Law) †Prof
Engineering and Architecture		(Admin. L.) †Lectr.
Colombo, J., BSc BE&A	(Archit.) †Prof.	(Canon L.) †Lectr.
(Munic. Engin.) †Prof.		Busuttill, E., MA BLitt <i>Oxon</i> , LLD BA (Internat. L.) †Lectr.
		Caruana Curran, M., BA LLD (Course of Legal Procurators) †Lectr.
		Cremona, J. J., DLitt <i>Rome</i> , BA PhD <i>Lond.</i> , BA LLD, FRHistS (Const. L.) †Lectr.
		Harding, H., BA LLD (Hist. of Legish. in England & Malta)
		Ganado, J. M., PhD <i>Lond.</i> , BA LLD
		(Roman L.) †Lectr.

* Member of the Association of Universities of the British Commonwealth

Maltese and Oriental Languages	
Aquilina, J, PhD <i>Lond</i> , BA LLD	Prof
Mathematics, Pure and Applied	
Borg-Costanzi, E. J, MA <i>Oxon</i> , BSc BE&A	Prof
...	Lectr.
Medicine and Surgery, see below,	
Oriental Languages, see Maltese and Oriental Langs	
Philosophy	
Sapiano, Most Rev Mgr. J, PhD SThD	
HistEcL <i>Greg.</i>	†Prof.
Physics	
Zahra-Neumann, C, BSc MD	Prof
Attard, M, BA <i>Oxon</i> , BSc BE&A	†Prof. Actg. Lectr.
Physiology and Biochemistry	
Ganado, W., BSc <i>Lond. & Malta</i> , MD	†Prof
Theology	
Zarb, Very Rev Fr S M., OBE, SThM	
SScriptD <i>Greg.</i> (Dogm T)	†Prof.
... (Moral & Ascet T)	†Prof
....	
(Holy Script, Biblical Greek & Hebrew)	†Prof.
Bonnici, Most Rev Mgr. A, HistEcL <i>Greg.</i> , BA BLCan DD	
(Hist. of the Church & Chris- tian Archaeol)	†Prof.
(Canon Law)	Prof
Lupa, Most Rev Mgr J, LICD <i>Greg.</i> , BLCan DD (Patrology & Liturgy)	†Lectr.
MEDICINE	
(for subjects of first 2 yrs.— Anat, etc, see above)	
Anæsthetics	
Podestà, C H, BSc MD	†Lectr.
Bacteriology and Parasitology	
Agus, E, DPH <i>Lav.</i> , DupBact <i>Lond.</i> , BSc MD	†Lectr.
Diseases of the Ear, Nose and Throat	
Vella, S. L., BSc MD, FLS	†Lectr
Forensic Medicine and Toxicology	
Galea, J., MBE, MD	†Lectr.
Materia Medica, Pharmacology and Therapeutics	
Zammit-Maempel, J V, MD	†Prof
Medicine	
Debono, J E, CBE, BSc MD, FRCP	†Prof
Mental Diseases	
Vassallo, V, OBE, MD <i>Naples</i> , DPM <i>Lond</i>	†Prof
Midwifery and Gynæcology	
Zammit, O, MSc <i>Lav</i> , MD	†Prof.
Ophthalmology	
Damato, F. J, DO <i>Oxon</i> , DOMS <i>Lond.</i> , MD, FRCS	†Lectr
Orthopædics	
Amato, V., BSc MD, FRCS	†Lectr
Pathology	
Xuereb, G. P, BSc DPhil <i>Oxon</i> , DCP <i>Lond</i> , BSc MD	†Prof
Social and Preventive Medicine	
Colerio, C, DPH DTM <i>Lav.</i> , BSc MD	†Prof
Surgery	
Craig, A. J., OBE, BSc MD, FRCS	†Prof
Venerology and Dermatology	
Briffa, R., BSc MD	†Lectr.

ADMINISTRATIVE AND OTHER STAFF

Chief Registry Clerk . L Elul	Chief Finance Clerk E E Camilleri	Chief Asst Librarian . J A Montalto	Curator, Bot. Gardens : M A Delia.	Asst Librarian S. Elul
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GENERAL INFORMATION

The univ. began as a Jesuit coll. instituted in 1592 by Pope Clement VIII, who gave it the power of conferring degrees in philos. and in theol. It is still housed in a bldg erected by the Jesuit Fathers. Its med. fac originated in a sch. of anat founded in 1674 by grandmaster

Nicolas Cottoner in the great hospital of the order, which accommodated 745 patients. Fra Emmanuel Pinto de Fonseca, grandmaster of the order of St John of Jerusalem, with authority from Pope Clement XIV, raised the coll. to univ. status in 1769.

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CONSTITUTION. By an ordinance promulgated in 1947, the univ is governed by a council consisting of the chancellor as pres, the vice-chancellor and rector magnificus as vice-pres, a representative of the Inter-Univ Council for Higher Educn Overseas, 6 members from the legislature of Malta, 6 members elected by the senate of the univ, 1 member from the guild of grads. and 3 members appointed by the chancellor in consultation with the vice-chancellor. A senate consisting of 14 members, 12 elected by the facs and 2 apptd. by the chancellor, to deal with questions regarding teaching and discipline, was also instituted by this ordinance. The council is the supreme authority of the univ.

INCOME (1959-60) Total, £66,526 (govt grant, £60,000, students' fees, £6051, other sources, £475).

LIBRARY 42,000 vols. **MUSEUM** archaeol. **OBSERVATORY**, full meteorol. equipment and seismograph. **BOTANICAL GARDENS** **HOSPITALS** available for clinics: general (650 beds) and several special—leprosy (80), mental diseases (800); invalid and old age (1000), pulmonary TB (200).

FACULTIES AND DEANS *Arts*, Prof J Aquilina (Maltese), *dent surg*, Prof J J Mangion (dent), *engn. & archit.*, Prof V R Galea,

laws, Prof V Caruana, *med. & surg.*, Prof V Vassallo (mental dis), *sci*, Prof E J Boig-Costanzi (maths), *theol*, Prof S M Zaub.

MATRICULATION exam requires pass in 6 subjs., incl. Engl (lang. & lit), Maltese, maths and 3 other subjs. which must incl. a lang. a sci. subj. and another subj. at the choice of the candidates. Latin is obligatory for the facs of arts, laws and theol. The inter courses in arts & sci. start every yr. All other courses start every 2 yrs. The next inter course (at 2-yrly intervals) commences in Oct 1962.

FIRST DEGREES BA (hons.) (in Engl., Maltese, Latin, hist), BA (gen.), BSc, BPharm—4 yrs; BArch, BEng—7 yrs, BChD, BD—6 yrs; LicD, MD, LLD—7 yrs., DD—8 yrs.

HIGHER DEGREES MArch, MEng—open to grads with at least 7 yrs' practice.

DIPLOMAS Notary public—6 yrs, legal procurator, soc & pub admin—3 yrs; educn—1 yr.

FEES (Tuition) £36-£54.

ACADEMIC YEAR 1961-62. Oct 1, 1961, to May 31, 1962.

PUBLICATIONS *Calendar* (Oct), 5s, *Annual Report*, 2s 6d.

THE YEAR 1960

RETIREMENTS Most Rev Prof Mgr C Bonnici (moral & ascetic theol), Prof V Caruana (civil law), Very Rev Prof Mgr P P Saydon (holy scripture, biblical Greek & Hebrew); Rev Prof A Tabone (canon law).

RESIGNATIONS Hon. Prof. J H Xuereb (sci of law), apptd judge, H.M. courts, Malta.

HONORARY DEGREES DD—Aloisius Cardinal Muench, papal legate; William Cardinal Godfrey, archbishop of Westminster, Paolo Cardinal Marella; Aloisius Cardinal Traglia, pro vicar of Rome. LLD—F J Corder, late commissioner for Malta in Australia & legal adviser to govt of Malta since 1936, Don Enzo di Napoli Rampolla, prince of Resuttano, bailiff grand chancellor of Sovereign Military Order of Malta, Capt R Ingham, founder of Malta Memorial District Nursing Assocn. DLitt—A Cremona, scholar of Maltese, Most Rev Prof Mgr P P Saydon, eminent biblical scholar. DSc—Dr. E Medi, eminent scientist.

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	370	—
Women	42	—
Total	412	—

Distribution by Faculties *Arts*, 131, *dent surg*, 4, *engn & archit*, 11, *law*, 15, *med & surg*, 66, *pharm*, 7, *sci*, 138, *theol*, 40. Total 412.

Included in the figures above are:—

New admissions, 183.

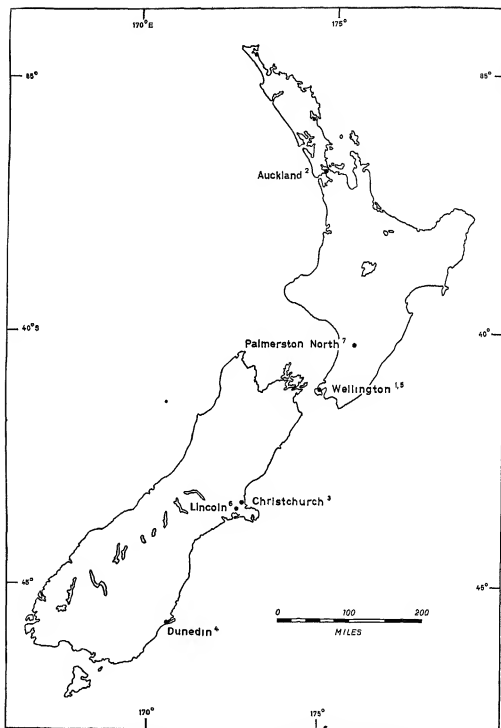
Students from other countries, 3.

DEGREES AWARDED (1960-61) *Dent surg.*, BChD, 7. *Theol.* DD, 3, LicD, 3, BD, 19.

DIPLOMAS AWARDED (1960-61) *Arts* DPA, 6. *Laws* LP, 8.

NEW ZEALAND

- 1 University of New Zealand (p. 683)
- 2 University of Auckland (p. 685)
- 3 University of Canterbury (p. 689)
- 4 University of Otago (p. 694)
- 5 Victoria University of Wellington (p. 701)
- 6 Lincoln College (p. 706)
- 7 Massey College (p. 708)



The places named are seats of university institutions as numbered overleaf

UNIVERSITY INSTITUTIONS IN NEW ZEALAND

[Contributed by Dr. F. J. Llewellyn, Chairman, University Grants Committee]

HISTORY The University of New Zealand was established by act of parliament in 1870 and dissolved by act of parliament in 1961.

It comprised four constituent institutions and two associated colleges. The first of these was established by the Scottish pioneers in 1869 through an ordinance of the provincial council of Otago as the University of Otago at Dunedin. When the concept of one university for New Zealand developed almost immediately, the Scottish settlers, somewhat reluctantly, yielded their right to their own independent university which became in 1874 a constituent college of the University of New Zealand whilst retaining the name University of Otago. In 1873 Canterbury University College was established, largely through the efforts of the Canterbury Association, at Christchurch. In 1876 the Queen granted a charter to the University of New Zealand. Auckland, the original capital of the colony, established its University College in 1882, and Wellington set up Victoria University College in 1897. Canterbury Agricultural College, Lincoln (a few miles from Christchurch), was established in 1873 and was controlled by the council of Canterbury University College until 1896 when it became more directly associated with the University of New Zealand. Massey Agricultural College, Palmerston North, was established in 1926, becoming the centre of agricultural education in the north island.

In October 1957 the titles of Auckland, Canterbury and Victoria university colleges became 'University of Auckland', 'University of Canterbury' and 'Victoria University of Wellington', respectively. These were changes of title only, and there was no change in the powers of these three institutions.

In August 1958 senate approved the establishment of a university college at Palmerston North as a branch of the Victoria University of Wellington and in April 1959 government approved these proposals and made financial provision for the establishment of the branch in 1960. First-year English, education, geography, history and mathematics are available for students of the Palmerston North Teachers' College and other students resident in the Palmerston North district as internal students of the Victoria University of Wellington and the college is also responsible for extra-mural tuition in these subjects to students from all university districts. In April 1959 government approved the establishment of a university college at Hamilton in 1960 as a branch of the University of Auckland. Tuition in first-year English and

history became available in 1960 to students as internal students of the University of Auckland.

CONSTITUTION The university had a federal structure and was similar in certain respects to the universities of London and Wales. According to the provisions of the University Act, 1908, the principal duty of the university was the conduct of the examinations for the students of the colleges and for many years the scripts were sent to Great Britain to be marked by examiners appointed by the university. The act of 1926 laid stress on the function of the university as an examining body and developed still further the university as a federation of colleges teaching for common degrees whose structures were determined by the university. During the past ten to fifteen years much of this authority devolved upon the colleges themselves and this process was accelerated until ultimately the four constituent institutions have become autonomous degree-granting universities.

The governing body of the university was the senate, which included representatives of the constituent institutions and associated colleges, of the government and of the graduate body. The senate exercised authority in general academic and administrative matters. It was advised on academic matters by the academic board, which was composed of the vice-chancellor of the university, the academic heads of the constituent institutions, the principals of the agricultural colleges, together with representatives elected by the professors, lecturers and professorial boards of the constituent institutions and agricultural colleges. By an act of 1954 the senate delegated to a curriculum committee, consisting of the vice-chancellor, the academic heads of the four constituent institutions, the director of education, four professors and two others appointed by the senate, authority to approve course regulations for the various degree courses taught in the constituent institutions and agricultural colleges. Course regulations approved by the curriculum committee superseded degree statutes of the university and were regulations of the sponsoring institution. Whilst the basic degree structure set out in the various degree statutes of the university was retained in these course regulations, there were variations between constituent institutions in prerequisites, prescriptions, compulsory subjects and some other matters of detail.

Until the end of 1961, then, the curriculum committee and the academic board worked side by side on academic matters with which the institutions and the university were concerned.

Whilst the academic board advised senate, the curriculum committee had executive powers under its own act.

Senate was advised on matters relating to university entrance and university scholarship examinations not only by the academic board but by the entrance board, which included representatives of the academic board, the post-primary schools' association, the registered private secondary schools and the department of education. Entrance to the constituent institutions and the agricultural colleges was therefore determined on a national basis by examinations controlled by senate on the advice of the entrance board and the academic board.

The constituent institutions and agricultural colleges were governed by councils and boards of governors respectively which included representatives of the professoriate, lecturers, school teachers, education boards, the graduates and appointees of the governor-general. Councils and boards of governors were advised on academic matters by professional boards which were in turn advised by faculties.

As devolution proceeded, more authority was vested in the councils of the constituent institutions so that ultimately, when independent universities were established, the powers of ordinary unitary university governing bodies would devolve upon them. Senate set up a committee to make recommendations concerning the completion of the devolutionary process and to determine what functions should remain central.

RELATIONSHIP TO GOVERNMENT The university and the constituent institutions and agricultural colleges were independent of government control in all academic matters except and in so far as any developments required the approval of parliament and consequent amendment to the university acts.

In financial matters, both with regard to annual grants (which were and are negotiated on a quinquennial basis) and grants for capital items including buildings, negotiations were conducted by the University Grants Committee with the minister of education. The grants committee was a body consisting of the vice-chancellor of the university *ex officio* and five persons not associated with any of the constituent institutions or agricultural colleges. The members were appointed by the senate after consultation with the ministers of finance and education. The financial needs of the institutions and colleges were put before the grants committee by the various councils and boards of governors and these were then sifted and collated by the committee before being presented to the government through the minister of education.

FINANCE The total recurrent income of the universities and the agricultural colleges for the year ended March 31, 1961, was approximately £2,892,783, of which £2,595,225 was from government sources, £251,405 from fees and £46,153 from endowments and other sources.

PRE-UNIVERSITY EDUCATION The normal minimum pre-university education required is six years at primary school, two years at intermediate school (or, alternatively, eight years at primary school) followed by four years at post-primary school, at which time the university entrance examination is normally taken. A further year at post-primary school leads to a higher school certificate or to the competitive university scholarship examination. Students are strongly encouraged to spend this extra post-university entrance year at school and the majority do so.

The university entrance examination varies in scope and content from time to time and at present consists of English and three or four other subjects from a fairly wide list. Adequate provision is made for the recognition of the entrance examinations of other universities.

ADMISSION Until recently all qualified applicants for admission to the university (*i.e.* those who have passed the university entrance examination or those who have been accredited by their schools with a pass in this examination or those who have secured an equivalent overseas qualification) have been accepted without any further selection. It is likely, however, that accommodation problems will require some selection to be made in the near future, particularly in science and engineering courses. Admissions to professional courses in medicine and dentistry are limited and from time to time competitive on the results of the first year (intermediate medical or dental) university examinations.

Candidates for university entrance may either sit the prescribed examination or be accredited by the headmaster of their school. Only certain schools, approved once by the senate, but now by the universities entrance board, have power to accredit. General liaison is maintained on the many questions relating to entrance, and on the accrediting process in particular schools, by liaison officers. One liaison officer is attached to the staff of each of the universities with the status of senior lecturer.

Ad eundem admission to postgraduate study and research is determined by the university councils following individual application. It is usual for applicants from Commonwealth and most other countries, who are adequately qualified to proceed to higher degrees in their own universities, to be permitted to register and pursue a course of study leading to a higher degree in the universities of New Zealand.

STRUCTURE OF DEGREE COURSES Each of the four universities provides degree courses in arts, commerce, law, music and science. Courses for various other professions are provided as follows: *Auckland*—architecture, engineering and fine arts; *Canterbury*—engineering and fine arts; *Otago*—dentistry, home science, medicine, mining and physical education; *Wellington*—political science, public administration and social science. See also p. 682.

Courses for the first degrees of BA, BSc and

BCom require a minimum of three years' study and are made up of units. Each unit represents one year's work in a subject, e.g. eight units are required for BSc degree and nine units for BA degree. Honours are awarded for the bachelor's degree in architecture, engineering and music. Except at the University of Auckland, honours are not awarded for the other bachelor's degrees, but a candidate having graduated with a bachelor's degree may in certain faculties, e.g. arts, commerce, law, science, proceed to a course (one or two years), which is partly a lecture course and partly research or other original work, for a master's degree with or without honours, according to the standard of attainment.

The minimum number of years of study for other first degrees is as follows: BAgr, three years; BHSc, BAgrSc, BArch, BE (civil, electrical, mechanical, metallurgical, or mining), MusB, four years; LLB, BE(Chem), BE (hons), BDS, BMedSc, five years; MB ChB, six years.

Professional courses in special schools are normally preceded by an intermediate course (one or two years) which may be taken at any of the universities. Courses in agriculture leading to BAgr and BAgrSc may be taken wholly at the agricultural colleges or alternatively the first-year intermediate course may be taken at any of the universities. Examinations for bachelor's and master's degrees are taken annually in October/November.

Postgraduate study (i.e. post master's degree or post bachelor's honours degree) usually involves original supervised work together with some tutorial and discussion type instruction. Normally there is no organized lecture course leading to a written examination, although the candidate may be required, if his thesis or dissertation is not wholly acceptable, to subject himself to some further examination.

TEACHING STAFF The grades of staff within the universities are (1) professors, (2) associate professors, who are lecturers of especial personal merit or distinction, (3) senior lecturers, (4) lecturers, (5) assistant or junior lecturers.

The usual teaching method is the formal lecture, but increasingly in the more advanced work seminars, tutorials and informal discussion methods are being introduced. In most departments there is reasonable time available for personal research and study, but the teaching load is generally somewhat greater than in universities in the United Kingdom.

Members of staff (1-4 above) may expect leave for up to one year for travel and study overseas every six or seven years. Conditions of leave vary somewhat from one university to another, but usually provide for full salary, a travel allowance and a maintenance grant dependent on the circumstances.

There is a national scale of salaries for university teachers which is determined by government on the recommendation of the University Grants Committee. Following the publication in January 1960 of the Parry report, government ap-

proved the following salary scales as from April 1, 1960. Academic heads of constituent institutions £3300, agricultural colleges £3100. Professors, £2800, associate professors, £2250, senior lecturers (heads of departments) (2 x £1100, 1 x £50), £1900-£2150, senior lecturers (3 x £100, 1 x £50), £1750-£2000; lecturers (x £75), £1250-£1700, assistant lecturers (x £50), £900-£1100.

Superannuation is available under the NZ government superannuation scheme, at present there is no reciprocal arrangement with F.S.U. or other overseas schemes. The usual method of appointment is by advertisement; it is not usual for posts to be filled by invitation. Advertisements are normally placed in appropriate newspapers and journals in New Zealand and the United Kingdom and occasionally in other Commonwealth countries. Persons of foreign nationality are considered for appointment and there are no statutory restrictions as to nationality. An analysis of the 1959 full-time staff statistics for the four teaching universities shows that 68 per cent secured their first degree in New Zealand and of these 72 per cent did so in their employing university, 22 per cent secured their first degree in the United Kingdom, 7 per cent in Commonwealth countries other than the United Kingdom, 3 per cent in other countries. Most of those who secured their first degree in New Zealand have read for a second degree in some overseas country.

STUDENTS Whilst the universities recognize the importance of full-time academic study, this ideal has not been fully realized, particularly in arts, commerce, law and music courses. It is virtually impossible to take degree courses in architecture, dentistry, engineering, home science, medicine, mining or science except as a full-time student. Of some 15,000 internal students, rather less than half are part-time; a further 1400 are external students registered with a university, but permitted to pursue their courses through private study, provided they pass the examinations conducted each year.

Relatively few students live in halls of residence, the proportion being highest in Otago and lowest in Auckland and Wellington. Student corporate life is focused on the students' union controlled by an elected student executive which organizes a full programme of cultural and sporting activities through the various societies and clubs. Student health services exist in most of the universities and there are usually also counsellors or tutors and lodgings officers. There is no appointments board or overseas universities information bureau.

Most fees range from £5 ss. to £10 10s per subject per year. Thus, for example, total fees for a BSc course are approximately £70 plus small laboratory charges and student association fees (approximately £3 per annum). Students who have a university entrance qualification are entitled to bursaries which pay fees (but not for a repeat course necessitated by failure). Students with a higher school certificate are entitled to an additional monetary allowance, together with a board-

ing allowance if the student lives away from home, and students with scholarships obtained from high placing in the university entrance scholarship list receive a still higher monetary allowance in addition to free tuition and boarding allowance. Many students supplement their bursary incomes with vacation employment, some students who for one reason or another are ineligible for bursary awards are able, by working throughout the long vacation, to finance themselves for full-time study during the university session.

The approximate annual cost of study and residence for a full-time student from overseas is as follows: tuition, examination and miscellaneous fees, £30-£55; board (either private or hostel during term and private during vacation), £250; clothes, books, travel, etc., £150-£200.

A very considerable increase in the number of university students is expected in 1962 and subsequent years, this arises partly from the natural increase in the population, partly from the population increase due to immigration, but mainly from the high level of the birth-rate in the 1940s.

ACADEMIC YEAR AND VACATION COURSES The academic year consists of three terms of approximately nine, eleven and six teaching weeks with short vacations between first and second and second and third terms. It begins in early March and ends in late November. There are no vacation courses for degree purposes, but engineering and some other students undergo practical training in works or field camps during the vacations.

EXTRA-MURAL CLASSES AND UNIVERSITY EXTENSION The universities control, through the regional councils for adult education, various extension and other courses for non-university students within their respective districts. The universities also play some part in the activities of the Workers' Educational Association. For this work special grants are paid to the universities from the National Council of Adult Education, a body established under a separate act of parliament.

INTER-UNIVERSITY ORGANIZATIONS The universities, through their vice-chancellors, are seeking a closer liaison with the Australian vice-chancellors. The professors and lecturers are mostly members of the Association of University Teachers (secretary E. M. Fraser, History Department, University of Auckland, Box 2553 C.P.O., Auckland) which is organized on a regional and national basis. The students' associations in the various centres adhere to the National Union of Students (address of secretary P.O. Box 1884, Wellington, C.I.).

THE UNIVERSITIES TO-DAY A great increase in student numbers is expected in the next few years, and to cope with this an extensive major building programme is under way. In its first phase a dental school at Otago, an engineering school at Canterbury and a science block at Victoria were built and now in course of planning are the following: a chemistry and physics block and a school of fine arts building at Auckland, an arts and library building at Victoria, a series of buildings

for the whole of the science faculty at Canterbury, an arts and library building at Otago, a building for food technology at Massey College and a science teaching block at Lincoln College.

The government, in close consultation with the University of New Zealand, set up a Committee on University Education to enquire generally into the needs of universities in New Zealand. It began its sittings in September 1959 and reported in January 1960. The committee consisted of three members: Sir David Hughes Parry (chairman), then director of the Institute of Advanced Legal Studies, University of London; Dean G. Andrew, deputy to the president of the University of British Columbia; and Dr. R. W. Harman, chairman of the New Zealand Atomic Energy Committee.

The report deals with almost every aspect of university education in New Zealand, including: the role of the university in the New Zealand community, the universities and New Zealand's economic development; the demand for and supply of university graduates, university entrance; part-time and extra-mural study, scholarships, bursaries and other financial assistance to students, salaries and conditions of recruitment and employment, university staffing, buildings and equipment; science and technology, new developments and new institutions, the separate universities, the University Grants Committee; university finance. (Copies of the report may be obtained from the government printer, Wellington, New Zealand.)

The recommendations of the Parry committee have been implemented in large measure by government. A new University Grants Committee was set up by act of parliament in 1960. In 1961 the Bill was re-enacted, dissolving the University of New Zealand and setting up a central organization to negotiate with government the grants necessary to meet the financial needs of university education and research in New Zealand. Under the University Grants Committee there were established a curriculum committee and a research committee as statutory sub-committees of the grants committee. The Universities Entrance Board and the Vice-Chancellors' Committee were also established as statutory bodies.

The function of the curriculum committee is to ensure reasonable equivalence of courses for degrees and diplomas throughout the universities and to protect the interests of the large number of students who transfer in New Zealand from one university to another. The research committee allocates to the universities the sums made available by the government for the purposes of research, which now amount to £100,000 annually.

Admission to the universities in New Zealand is controlled by a Universities Entrance Board. The entrance board not only conducts the university entrance examination, but also grants admission at entrance standard to those persons who have received their post-primary education outside New Zealand.

Each of the four universities in New Zealand

has been given full university status with the right to confer its own degrees. In the case of the two agricultural colleges, Lincoln College, previously known as the Canterbury Agricultural College, is now a constituent college of the University of Canterbury. Massey College, previously known as the Massey Agricultural College, is now a university college of agriculture in association with the Victoria University of Wellington. The colleges will teach for degrees in agriculture of the University of Canterbury and the Victoria University of Wellington respectively, but they have in addition the right which they have had for some years, to award diplomas and certificates in the fields of study for which they teach.

INSTITUTIONS OF HIGHER EDUCATION OTHER THAN UNIVERSITIES. The universities in New Zealand have a dominant role in higher and adult education. Some government departments, however, play a part in giving specialized technological training to employees, as also do some of the larger industrial enterprises. Nurses, dental nurses and teachers are trained by government departments or local authorities, although post-primary teachers, in particular, and many primary as well, also take university courses.

In addition to university courses for the professions, the technical school system, including the government's technical correspondence school, offers some professional courses, such as engineering and accountancy, the technical schools, however, are mainly concerned with vocational and apprentice training. There are no technical colleges at the higher education level.

There is a growing demand for some systematic training for technicians and other workers occupying a middle place between the university-trained technologist and the tradesman. In this field a significant start has been made with the recent introduction of a New Zealand certificate of engineering for which courses are given at the large technical colleges and in 1960 a two-year full-time course in pharmacy began.

The universities are not responsible for teacher training, which is carried out under the control of the minister of education in teacher training colleges established for that purpose in the university centres and in Hamilton and Palmerston North.

PUBLICATIONS. See Appendix VI and the 'Publications' section of the entries for the universities and associated institutions, below.

DIRECTORY TO SUBJECTS OF STUDY

(See also table on p 682)

The following subjects may be studied, as part of the course leading to a first degree and/or at postgraduate level, at all of the universities in New Zealand: accountancy, botany, chemistry, classics, economics, education, English, French, geography, geology, German, history, law, mathematics, music, philosophy, physics, political science, psychology, zoology.

For details of the agricultural subjects which may be studied at Lincoln College and Massey College, see the college entries on pp. 706-711.

The table on p 682 shows which of the universities provide facilities for study or research in a number of other subjects. The symbol ✓ means that the subject can be studied at the university indicated *only* as a main or subsidiary part of the course for a first degree, or for a diploma, certificate, etc.; the symbol ▲ means that the subject can be studied at the university indicated at undergraduate and postgraduate levels, the symbol I means that the subject can be studied at the university indicated *only* at postgraduate level.

STATISTICS

[Source: University of New Zealand]

STUDENT NUMBERS, 1961

(as at July 1, 1961)

	Full-Time	Part-Time	External
Men	6585	5247	1098
Women	2153	1533	342
Total	8738	6780	1440

Distribution by Faculties: Agric, 1265; archit, 371; arts, 5634; comm, 2626; dent, 177; div, 51; educ, 178; engin, 881; fine arts, 309; home sci, 186; law, 1107; med, 590; music, 131; phys educ, 106; physiotherapy, 67; pub admin, 12; radiol, 10; sci, 3137; soc sci, 18; technol, 74; other, 28. Total 16,958.

Included in the figures above are —

Postgraduate students, 1064

New admissions, 4180

Students from other countries, 505 (Countries from which largest numbers came: Pacific area, S E Asia)

DEGREES AWARDED (1960)

Agric BAG, 6; BAgSc, 23; Archt BArch, 11; Arts BA, 450, MA, 130; Comm BCom, 68; MCom, 5; Dent BDS, 36; MDS, 2; DDS, 2; Div BD, 6; Engin BE, 88; BE (hons), 28; ME, 9; Home sci BHSc, 10; Law LLB, 114, LLM, 4; Med BMedSc, 11; MMedSc, 1; MB ChB, 100; ChM, 1; MD, 7; Music MusB, 10; MusB (hons), 2; Sci BSc, 263; BSc (hons), 25; MSc, 78; DSc, 2; PhD (all fads) 11. Total number of first degrees awarded, 1222.

DIPLOMAS AWARDED (1960) DipBanking, 6; DipEd, 20; DipFineArts, 30; DJ, 1; Dip Music, 7; DipObstetrics, 6; DipMicr, 3.

For Table showing facilities for study and research, see overleaf.

NEW ZEALAND DIRECTORY TO SUBJECTS OF STUDY (*see* p 681)—TABLE
SHOWING FACILITIES FOR STUDY AND RESEARCH

Note.—For subjects which can be studied at *all* of the universities in New Zealand, *see* p 681

<i>For an explanation of the symbols used, see p 681</i>	Auckland	Canterbury ¹	Otago	Wellington
Ancient History	✓	✓		
Anthropology	✓		✓	
Architecture	✓			
Asian Studies				✓
Biochemistry			✓	✓
Dentistry			✓	
Economic History		✓		
Engineering, Chemical		✓		
Civil	✓	✓		
Electrical	✓	✓		
Mechanical	✓	✓		
Fine Arts	✓	✓		
Hebrew	✓		✓	
Home Science			✓	
Industrial Chemistry		✓		
Italian	✓			✓
Maori Studies	✓			
Medicine ² /Medical Science ²			✓	
Microbiology			✓	
Mining and Metallurgy			✓	
New Zealand History				✓
Obstetrics and Gynaecology	/		✓	
Pacific and Asian History		✓		
Physical Education			✓	
Physiology			✓	
Public Administration				✓
Public Health			✓	
Russian		✓	✓	✓
Social Science				✓
Sociology		✓		✓
Theology			✓	
Town Planning	✓			
Urban Valuation	✓		✓	

¹ MB ChB

² BMedSc, MMedSc

UNIVERSITY OF NEW ZEALAND*

Founded 1870, dissolved 1961

By legislation passed by the New Zealand parliament in 1961, with effect from Jan 1, 1962, the University of New Zealand is dissolved, each of the four universities (Auckland, Canterbury, Otago, Wellington) has full university status with power to award its own degrees, Lincoln College (formerly Canterbury Agricultural College) is a constituent college of the University of Canterbury and Massey College (formerly Massey Agricultural College) is associated with the Victoria University of Wellington. See also pp. 680-681.

The former constituent institutions of the University of New Zealand were the University of Auckland, University of Canterbury, University of Otago and the Victoria University of Wellington, and the former associated colleges of the University of New Zealand were Canterbury Agricultural College and Massey Agricultural College.

GENERAL INFORMATION (see also pp. 677-682)

The univ. was founded, as a purely examining univ., by an act of the colonial govt. in 1870. It received its royal charter in 1876. Its constitution is defined in the N.Z. Univ. Act, 1908, and subsequent amendments. One of the most important of these later amendments was that of 1926 by which the univ. was re-established as a federal univ. consisting of the 4 constituent instns. together with the 2 agric. colls. By amending legislation of Oct. 1957 the titles of Auckland, Canterbury and Victoria university colleges became 'University of Auckland', 'University of Canterbury' and 'Victoria University of Wellington', respectively.

The federal univ. is now largely concerned with wider problems of the promotion and co-ordination of univ. educn. and res. and, within recent yrs., has established a univ. press, a res. fund (at present £100,000 p.a.) and a univ. grants cttee. It supervises higher teaching appts. in the constituent instns., and the governing bodies of the

instns. cannot make any appt. to a chair without the prior approval of the senate. A prof. so apptd. becomes a 'prof. of the univ.'

The univ. owns, in Wellington, Univ. House, which contains its admin. offices and the senate room.

CONSTITUTION The govt. of the univ. is vested in the senate, advised on academic matters by the academic bd., and on entrance matters by the entrance bd. The senate consists of the chancellor, pro-chancellor and vice-chancellor, 4 members nominated by the governor-general, 8 apptd. by the governing bodies of the constituent instns., 2 by councils of agric. colls., 1 by the senate, 5 by convocation, 3 by the academic bd., the vice-chancellors of the constituent instns. and the dir. of educn.

ADMISSION The principal exam. qualifying for matric. is the entrance exam. held in Dec., when the candidate is required to pass in Engl. and

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in 3 or 4 other subjects selected from appropriate groups of subjects. The entrance exam. is no longer in any way related to the sch. cert exam in New Zealand, that exam. normally being taken at least a yr before the candidate takes the entrance exam.

Special provision is made for the admission to certain courses of students who have reached the age of 21 yrs. and who give evidence of some reasonable educul. background though they have not passed the entrance exam. This admission is later confirmed on results gained.

Students from overseas are admitted at the discretion of a cttee. of the senate if they have passed an approved entrance exam. in a univ. overseas, or if they have passed such an exam. at a standard which appears to the cttee to be the standard of univ. entrance in New Zealand.

'AD EUNDEM' RECOGNITION Courses completed, or partly completed, at any British or other approved univ. may be accepted *ad eundem status*.

EXTERNAL STUDENTS Provision is made for the admission of students exempted from attendance at lectures, to the exams for the degrees of BA, BSc, LLB, LL.M, BCom, MCom, MusB, and BD, except in those subs. where practical cert is required. Exemption in any subj. at stage III for BA and BSc is contingent on completion of 3 units (incl. one at stage II) as an internal student. Exemption is available only to students domiciled in N.Z. or in N.Z. island territories.

ACADEMIC YEAR. Three terms: autumn (March-May), winter (June-Aug.) and spring (Sept.-Oct. or Nov.)

FIRST DEGREES 3 yrs.—BA, BAg (4th yr. for BAgSc provided candidate does not graduate BAg), BAg(Hort), BSc, BSc pass, hons., BPharm (except at Univ. of Auckland); 4 yrs.—BHSc, BAgSc (incl. practical work on farm), BAgSc(DairyTech), BAgSc(Hort), MusB pass, hons., BArch (incl. 18 mos. practical work), BE (chem., civil, electr., mech., metall., mining, incl. from 9 to 18 mos. in shops, mines or surveying), BCom; 4 or 5 yrs.—BMedSc, 5 yrs.—LLB, BE (hons.), BDS; 6 yrs.—MB ChB.

The degree of BSc hons. (Canterbury, Otago and Wellington univs.) may be awarded in one of the following: biochem., bot., chem., geog., geol., maths., microbiol., phys., physiol., psychol., zool.

BA, LLB and BCom can be taken largely or solely by pt.-time or evg. attendance and it is possible, but difficult because of the practical

work requirements, to take a BSc by pt.-time study.

The governing body of each constituent instn. and agric. coll. has power to make course regns. which must be complied with by students before degrees and dipl. of the Univ. of N.Z. may be conferred on them. One result is that the length of a degree course at a constituent instn. may differ from that stated above.

HIGHER DEGREES For masters' degrees, 1 e MA, MSc, MCom, LL.M, ME, MHSc, MAgSc, MAgSc(DairyTech), MAgSc(Hort), MMedSc, 1 or 2 yrs. of study beyond the bachelor's degree is required, with exams and thesis, for doctors' degrees (except MD, ChM), 1 e LittD, LLD, DSc, MusD, DDS, 5 yrs. standing as master, and an approved thesis, for MD, ChM, 3 yrs. standing, with approved thesis and exams, for PhD, 2 yrs. standing, with approved thesis and exam, for BD, 2 yrs. postgrad. work. All higher degrees are open to grads. of other univs. provided they have been granted 'ad eundem' admission with the prerequisite qualifs. and provided they are resident in N.Z. (except in the case of doctorates where pub. work only is acceptable).

HONORARY DEGREES. LLD, DSc, LittD, MusD.

DIPLOMAS Banking, fine arts, music, each 3 yrs., educn., 1 yr. after BA, microbiol., 1 yr. after bachelor's degree, obstet., pub. health, 2 yrs. after MB ChB; town planning, 2 yrs. after BA or BE. The constituent instns. and the two associated agric. colls. also award their own dipls.

PROFESSIONAL SCHOOLS. See p. 678.

'OPEN' POSTGRADUATE AWARDS. National Res. scholps, offered annually by DSIR to sci. grads. of N.Z. Univ. or other approved persons, about 6 res. fellowships (£450 p.a.) awarded annually from the res. fund, which, from time to time, may make awards of a higher value to sr. workers.

PUBLICATIONS. *Calendar* (Jan), 4s (plus postage), *Minutes of Proceedings of Senate*, free, entrance or entrance scholp *Exam Papers*, 3s a set; *Research in the Univ.*, 1946-49, 1950-52, J. C. Beaglehole. *The Univ. of N.Z., an Historical Study* (N.Z. Council for Educnl. Res., 1937), *Facts and Figures* (1959).

UNIVERSITY PRESS Establd. 1947, by a grant from senate. Publishes text-books and works of scholarship.

THE YEAR 1960

(see also separate entries for the constituent instns. and agric. colls.)

NEW DEPARTMENTS AND CHAIRS. Chairs: accountancy, fine arts, psychol. (Auckland), accountancy, nuclear sci. (Wellington).

HONORARY DEGREES DSc—Sir W. Lawrence

Bragg, dir., Davy Faraday lab., Royal Institution. LittD—Emer. Prof. A. Wall, prof. of Engl., Canterbury, 1898-1931.

For statistics, see p. 681

UNIVERSITY OF AUCKLAND*

Founded 1957; previously established as University College, 1882

Postal Address: Box 2175 C P O., Auckland, New Zealand

Cables and Telegrams University, Auckland

Telephone 30-060

VISITOR—THE MINISTER OF EDUCATION

CHANCELLOR—SIR DOUGLAS ROBB, CMG, BSc MD ChM, FRCS, Hon FACS

PRO-CHANCELLOR—W H COOPER, MA

VICE-CHANCELLOR—K J MAIDMENT, MA Oxon

REGISTRAR—J A KIRKNESS, JP, MCom

LIBRARIAN—F A SANDALL, BA, FLA

TEACHING STAFF

[† = Part-Time]

Accountancy			Smith, G, BArch	Sr Lectr
Holt, L W, MCom, FRANZ	Prof		McClean, E. C, BArch	Sr Lectr.
Leys, W C. S., MA LLM			Jaime, W O, BArch	Sr Lectr
(Comm Law)	Sr Lectr		Marshall, A H, BArch BSc	Sr Lectr.
Field, J E, MCom	Sr Lectr		Rockel, R	Sr Lectr
McClew, J McL, MCom	Sr Lectr		Wallace, H E, BE MSc	Sr Lectr.
Tabb, J B, BCom	Lectr		Noble, F E R, Dip Urb Val	† Lectr.
Kennedy, B. A., LLB	† Lectr.			
Twomey, M K., BCom	† Lectr.		Botany	
Rose, J D, BCom	† Lectr.		Chapman, V J, MA PhD Camb, FLS	Prof
Davis, A. E., DFC, BCom	† Lectr.		Millener, L H, PhD Camb, MSc	Sr Lectr
			Rattenbury, J A., PhD Calif, MA	
			(Genetics)	Sr Lectr
Anthropology			Brown, J M A, MA PhD Durh	Sr Lectr.
Piddington, R O., PhD Lond, MA Syd	(on leave) Prof		Segar, Evelyn C M, BSc	Lectr
Biggs, B G, MA PhD Indiana	Sr Lectr		Quinn, C J, BSc Tas	Jr Lectr
Green, R C, BA BS New Mexico	Sr Lectr			
Groves, M. C., BA Melb., Dip Anthropol			Chemistry	
DPhil Oxon.	Sr Lectr		Llewellyn, D. R, DSc Birm, DPhil Oxon,	
Bulmer, R N H, BA Camb	Lectr		FRIC, FNZIC	Prof., Dir of Labs.
Hohepa, P W, BA	Jr Lectr		Briggs, L. H, DPhil Oxon, DSc, FNZIC,	
Scobie, R A, MA Lond.	† Lectr		FRSNZ	Prof
Taylor, R S T, DDS	† Lectr.		Odell, A L, PhD Lond, MSc	Assoc. Prof.
			Maslen, H., MSc	Sr Lectr.
Architecture			Hall, D, MSc PhD	Sr Lectr
Light, A. C, BA Lond, FRIBA, FNZIA	Prof		Seelye, R N, MSc	Sr Lectr
Toy, R H, PhD Dub, BArch	(Design) Prof		Swedlund, B E, MSc PhD Lond	Sr Lectr
Woodard, F, FRAIA	(Construct) Prof.		Turney, T A, MSc	Sr Lectr
Marshall, A C, BArch	Sr Lectr.		Oliff, R W, MSc	Lectr.
Brown, V A	Sr Lectr		Cambie, R C., MSc PhD	(on leave) Lectr
Fernday, E G., BSc(Eng) Birm	Sr Lectr.		Thorp, J M., BSc PhD Lond	Lectr
Cutter, C G	Sr Lectr		Waters, T N M, MSc PhD	Lectr
Brett, M, DipArch Liv	Sr Lectr		Bishop, Charrman J, MSc	Lectr
Middleton, P., DipArch Nott.	Sr Lectr.		Davis, B R, MSc PhD	Lectr.
Neal, A W, BAich	(on leave) Sr Lectr		Waters, Mrs Joyce M, MSc PhD	Lectr.
Porsolt, I. V., DipArchEng Prague	Sr Lectr.		Wright, G A, DPhil Oxon, MSc	Lectr
			White, G R, MSc	Jr. Lectr.

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Classics

Blacklock, E M, MA LittD	Prof
Crawley, L W A, BA Camb., MA	Assoc Prof
Harris, B F, MA Oxon, BA BD	Sr Lectr
Minn, H R, BD PhD Lond, MA Lond & N Z	Sr Lectr
Hereward, Daphne, MA Oxon	Lectr
Cowlin, R G, MA Camb (Anc Hist)	Lectr

Economics

Simkin, C G F, DPhil Oxon., MA DipSocSc	Prof
Bergstrom, A R, PhD Camb, MCom (on leave)	Sr Lectr
Lloyd Prichard, Murel F, MA Wales, PhD Camb	Sr Lectr
Brownlie, A D, MCom	Sr Lectr
Braae, G P, DPhil Oxon, MCom	Sr Lectr.
Argy, V E, BA BEC Syd.	Lectr

Education

Winterbourn, R, PhD Lond, MA DipEd	Prof
Cumming, I., PhD Lond, BA MED Melb, FRHistS	Sr Lectr
Minogue, W. J. D., PhD Ohio State, MA	Sr Lectr
Bainey, W D, MA DipEd PhD Lond	Sr Lectr
Hare, W B, MA DipEd	Sr Lectr.
Avidson, G. L., MA PhD Lond	Lectr
Lovegrove, M N, MA	Lectr
McAlpine, D. M., MA	Lectr
McNaughton, A H, PhD Calif, MA Calif & N Z	Lectr
Smith, Leone M, MA	Lectr

Engineering

Mowbray, N. A., BE(Civil), MICE (Civil E)	Prof
Titchener, A L, ScD M.I.T., BE(Mining) BSc BE(Mech)	(Mech E) Prof
Bogle, A G, DPhil Oxon, BE(Electr-Mech), MIEE (on leave) (Electr E.)	Prof
De Bray, B P G, MSc Lond, MIMechE (Aeronaut E)	Sr Lectr
Thomass, L H, BSc BE(Civil) (Civil E)	Sr Lectr
Glover, J. H., BSc Lond (Mech. E)	Sr. Lectr.
McMullen, J J., BSc Lond (Electr E)	Sr Lectr
Taylor, P. W. BSc BE (Civil E)	Sr Lectr
Raudkivi, A. J (Civil E)	Sr. Lectr
Egan, B, BE(Electr) BA (Electr E)	Si. Lectr.
Lee, K C., BE(Civil) (Mech E)	Sr Lectr.
Maiden, C. J., DPhil Oxon, ME (Mech E)	Sr Lectr
Stephenson, J., BSc Glas. (Mech E)	Sr. Lectr
Tremain, A C, BSc Lond (Electr. E)	Sr Lectr

English Language and Literature

Musgrove, S, MA DPhil Oxon	Prof
Joseph, M K., BLitt Oxon, MA Oxon & N.Z.	Assoc. Prof.

Reid, J C, MA DLitt (on leave)	Assoc Prof
Sheppard, Elizabeth A, MA PhD Lond	
Curnow, T A M, BA	Sr Lectr
Crawford, T., MA Edn & N Z	Sr Lectr
Pearson, W H, PhD Lond, MA	Sr Lectr
Cameron, W J, MA PhD R'dg	Sr Lectr.
Stead, C K, MA	Lectr
Day, P W, MA Oaon. & N Z	Lectr
Dane, P, MA Leic	Lectr
Tamplin, R N J, BA Oxon	Lectr

Fine Arts, Elam School of

Beadle, P J	Prof
Kavanagh, J F (Sculpture)	Sr Lectr
McLaren, A W S (on leave) (Painting & Figure Drawing)	Sr Lectr
Ellis, R W (Design)	Sr. Lectr.
White, Anna L (Painting & Figure Composition)	Lectr
Tapper, G P (Painting)	Lectr

Geography

Cumberland, K. B, MA Lond, DSc	Prof
Fox, J W., BA Lond.	Sr Lectr
Cameron, S S, MSc	Lectr
Dalrymple, J N, MSc PhD Lond	Lectr
Felding, G J, MA	Lectr
Fraser, A. S., BSc Aberd	Lectr
Gorrie, Averil M, MA	Lectr
Keddie, P D, MA Wis	Lectr
Whitelaw, J S., MA	Jr Lectr

Geology

Lillie, A. R., MA Camb, DSc Geneva	Prof.
Brothers, R N, PhD Lond, MSc, FGS	
Searle, E J, DSc	Assoc Prof
Ballance, P F, BSc Lond, PhD	Si Lectr
Giant-Mackie, J A, MSc	Lectr

German

Asher, J A., MA PhD Basle	
Maileyn, R., BA Oxon, PhD Gott	Sr Lectr.
Droescher, W O, MA	Lectr

Hebrew

Hames, E W, MA	†Lectr
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History

Rutherford, J, MA Durh, PhD Msch.	Prof.
Sinclair, K, MA PhD	Assoc Prof.
Chapman, R. M, MA	Sr. Lectr.
Parnaby, O. W, DPhil Oxon., BA Melb.	
O'Connor, P. S., BA Oxon & N Z	Sr Lectr
O'Dowd, Betty M., MA	Lectr
Miller, J O., MA PhD	Lectr
Roy, W T., MA Luck	Lectr
Shannon, R T., PhD Camb, MA	Lectr
McLean, A C, MA	Jr Lectr

Law

Davis, A G, LL.D. Lond., LL.B.	Prof
Northey, J F, <i>Djur Tor</i> , BA LL.M.	
(on leave) (Public L.) Prof	
Sim, P B A, LL.M.	Sr Lectr
Whalan, D J, LL.M.	Sr Lectr
Coote, B, PhD <i>Camb</i> , LL.M.	Sr Lectr
Hinde, G. W., LL.M.	Sr Lectr
Vautier, M H., LL.M.	† Lectr
Connell, B F, LL.B.	† Lectr

Mathematics

Chong, F, MA <i>Camb</i> , PhD <i>Iowa State</i> , MSc <i>Syd.</i>	Prof
Segedin, C M, PhD <i>Camb</i> , MSc	Assoc Prof.
Kalman, J A., MA PhD <i>Huro.</i>	Assoc Prof
Hookings, G A, MSc <i>Camb</i> & <i>N Z</i>	
(on leave) Sr Lectr	
Segedin, M G, MSc MA <i>Indiana</i>	Sr Lectr
Whale, J F, MSc	Lectr
Hait, E A, MA	Lectr
Tills, A W, MSc	Lectr

Medicine

Carey, H M, MSc MB BS DGO <i>Syd</i> , FRCSEd, FRCOG, FRACS	
(Obstet & Gynaecol.) Prof.	
Green, G H, BA BSc MB ChB DObst	
(Obstet & Gynaecol.) Sr Lectr	

Music

Nalden, C, MusB <i>Durh</i> , MusD <i>Lond</i>	Prof
Rave, T. N., MusB	Sr Lectr
Tremann, A R., DMus <i>Lond</i> , MusB	Sr Lectr
Hollimake, R B, MA <i>Camb</i>	(on leave) Lectr
Godfrey, F D H, MA MusB <i>Camb</i>	Lectr

Philosophy

Plaum, K B, MA <i>St. And</i> , BLitt <i>Oxon.</i>	
Sr Lectr.	
Ardley, G W R, BA MSc <i>Melb</i>	Lectr
Pearson, C. I., MA PhD <i>Q'ld.</i>	Lectr
Ralls, A E, MA <i>Oxon</i>	Lectr.
Forsman, E. A., MA	† Lectr.

Physics

Brown, D, PhD <i>Brust</i>	Prof
Kielesheimer, K S, Ding <i>Darmstadt</i> , FIP	Assoc Prof.
Collins, E. R, PhD <i>Bism</i> , MSc	Assoc. Prof.
Sagar, F. H., MSc, FIP	Assoc. Prof
Mawson, D G, MSc	Sr Lectr
Whale, H A., MSc PhD <i>Camb</i>	Sr Res Fellow
Titheridge, J E, MSc	Sr Res Fellow
Earnshaw, J B, BSc <i>Manc</i>	(on leave) Lectr

Kear, R F, BA <i>Camb.</i> , MSc	Lectr
Schlup, F, BSc	Lectr
Lyons, J, BSc <i>N U I</i> , MSc DipEd <i>Belf</i>	Lectr
Clegg, R J, MSc	Lectr
Garrett, R, BA MSc	Lectr
Poletti, M J, MSc	Res Fellow

Psychology

Sampson, H, MA <i>Br Col</i> , PhD <i>McG</i>	Prof
Storm, T, BA <i>Temple</i> , MS PhD <i>Yale</i>	Lectr
Anthony, W S, MA DPhil <i>Oxon</i>	Lectr
Tong, J E, BA <i>Brist</i> , PhD <i>Sheff</i>	Lectr
Quartermain, D, MA	Lectr.
Corballis, M C, MSc BA	Jr Lectr.

Romance Languages

Keys, A C, DUParis, MA	Prof.
West, A W H., DUParis, MA	Sr. Lectr.
Hollyman, K. J., DUParis, MA	Sr Lectr
Barrocci, G, PhD <i>Rome</i> (Italian)	Sr Lectr.
Pollard, W F, MA <i>Dub</i>	Lectr
Butler, A S G, DUParis, MA	Lectr
Riches, Gisèle, BA	Lectr
Woolf, D M, BA <i>Oxon</i> (Italian)	Lectr

Town Planning

Kennedy, R T, CBE	Prof
Rosenberg, G	(on leave) St. Lectr

Zoology

Morton, J E, DSc PhD <i>Lond.</i> , MSc	Prof.
Pendergrast, J- G, PhD <i>Lond</i> , MSc	
(on leave) Sr Lectr	
Robb, Joan, MSc	Sr Lectr.
Bergquist, Mrs Patricia R, MSc	(on leave) Lectr
Miller, M, BSc PhD <i>Liv</i>	Lectr.
Gilpin-Brown, J B, BSc PhD <i>Brist</i>	Lectr.
Cowley, D R., MSc	Lectr

ADULT EDUCATION

Morrison, S R, MA	Dir.
Tutor Organizers	
McMullan, Sheila G, BHSCE DipEd	
Bell, C A, MA DipEd	
Deilow, R G, MusBac	
Fausett, Mrs Vera M	
Bedgood, L R, MA BSc DipEd	
te Hau, M, BA	
Barker, R H	
Goodland, T. M, MSc	
James, D G., BA <i>Oxon</i>	
Metge, A. Joan, MA PhD	

ADMINISTRATIVE AND OTHER STAFF

Dep Registrar Kathleen Alson, JP, BCom.
Asst Registrars W M Milliken, CVO, OBE,
LLM (Academic), D W Pullar, BCom, A H
Gorrings, BCom (Properties) Univ. Develop-

ment Officer C G S Ellis, OBE Liaison
Officer with Secondary Schools. K S Turtill,
MA Warden of O'Rourke Hall D J Whalan,
LLM, Warden of Lamb House: G T Oliver

GENERAL INFORMATION (see also p 683)

Establd by act of the NZ legislature in 1882. Affiliated as a coll. of the Univ of N Z in 1883. In 1885 an endowment of 30,000 acres was made available, one-third of this was sold in 1915.

Lectures were offered in classics, Engl, biol, geol, chem, mechanics, matha and law at the opening of the coll. Others have been developed since then as funds and other circumstances have permitted. A sp sch. of engin was establd in 1906, and the sch. of archit in 1917. In 1950 the existing Elam Sch. of Fine Arts was taken over by the univ as a sp sch. The postgrad chair in obstet & gynæcol, the first such chair in the S hemisphere, was establd in 1951, funds for its endowment having been raised by public subscription. The dept of town planning was formally approved in 1955, the salary of the 1st prof, who took up his duties in 1957, having been generously provided by Mr N B Spencer for an initial period of 4 yrs.

A branchinstn of the Univ. of Auckland was establd at Hamilton, 80 miles from Auckland. Lectures in stage I Engl, stage I hist, stage I geog and stage I educn were offered during 1961 and further subsj may be offered in 1962.

CONSTITUTION Under amending legislation of Oct 1957, Auckland Univ Coll became the Univ of Auckland, and was designated a constituent instn of the Univ of N Z. The titles of the principal officers were changed to chancellor, pro-chancellor and vice-chancellor. The council comprises 19 members, of whom 3 are apptd by the governor-general, 2 by the professional bd., 1 by the Auckland educn. bd., 1 by the Auckland city council, 1 by the executive of the students' assocn and 6 elected by the grads., 1 by the sub-professional staff, 2 by members of the House of Representatives and 1 by the principals of secondary schs., together with the vice-chancellor of the univ.

INCOME (1960) Total, £681,984 (govt grants, 87.6 per cent., fees, 10.6 per cent., endowment, 0.9 per cent.; other sources, 0.9 per cent.).

FACULTIES AND DEANS. *Archit*, Prof. A. C. Light; *arts*, Prof. S. Musgrove (Engl), *comm*, Prof. L. W. Holt (accty), *educn*, Prof. R. Winterbourn, *engin*, Prof. A. G. Bogle, *law*, Prof. A. G. Davis; *music*, Prof. C. Nalden; *sci*, Assoc. Prof. F. H. Sagar (phys).

UNIVERSITY PRECINCT Negotiations have been completed for the extension of the univ. area in its present position close to the heart of Auckland city. The over-all area of the univ. precinct will be 48 acres. Purchase of the addnl land is proceeding.

LOCATION The sp schs. are at some distance from the main bldgs. sch of engin at Ardmore, 20 mls. south of Auckland (tel. 596-175), sch of archit., Symonds St (tel. 42-746), Elam sch of fine arts, partly in Symonds St and Newton West (tel. 41-271, 15-114).

LIBRARIES Approx 143,000 vols, incl the separate librs of the schs of archit and engin, and the Elam sch of fine arts, the music dept, and various sci depts. Bot and geol librs incl collections of uncatalogued reprints. Paterson collection of classics and Old Testament hist. Libr also has loan collection of about 1000 gramophone records, and 1000 art prints.

LABORATORIES Bot, chem, engin, educn, geol, obstet. & gynæcol, phys, psychol, zool.

TEACHING HOSPITAL National Women's Hosp., controlled by Auckland Hosp. Bd., some 3 mls from the univ.

ENTRANCE REQUIREMENTS As prescribed by the Univ of N Z., see p 683.

FIRST DEGREES (of Univ of N Z.) BA, BSc, 3 yrs., BCom, MusB, 4 yrs., BE(Civil), BE(Electr), BE(Mech), LLB, BArch, 5 yrs.

HIGHER DEGREES (of Univ of N Z.) MA, MSc, MCom, LLM, 1 or 2 yrs.; ME, 2 yrs.; PhD, 2 yrs. from master's degree.

EXTERNAL DEGREES (of Univ of N Z.) Exemption from attendance at lectures is granted in certain subsj of arts, comm, law, music to students resident in the Auckland Univ district.

It is not possible to obtain a degree by external study alone.

DIPLOMAS Univ of N Z educn., 1 yr postgrad or 2 yrs undergrad, obstet. & gynæcol., town planning, each 1 yr postgrad, banking, 2 yrs. subject to 5 yrs' practical experience; music, 3 yrs, fine arts, 4 yrs, with addnl yr for hona. *Univ. of Auckland* urban valuation, educnl psychol., each 2 yrs postgrad; executant music, 3 yrs., archit., 4 yrs.

POSTGRADUATE COURSES The postgrad sch of obstet. & gynæcol. offers specialist trng to candidates for the MRCOG and short refresher courses for general practitioners.

RESEARCH Usual res facilities available in the labs referred to above. Postgrad sch of obstet & gynæcol offers sp facilities for postgrad work.

STUDY LEAVE Provision is made for periodical refresher leave to enable sr members of staff to proceed abroad.

FEES Approx. inclusive fees. archit., £112, arts, comm, £50, engin, £123, fine arts, law, £80, music, £32, sci., £68.

ACADEMIC YEAR March to Nov, 3 terms.

STUDENT RESIDENCES. O'Rourke Hall, Symonds St (tel. 41-111), accomm. 85 m, 75 w. Fees from £3 8s 6d for rooms shared by 3, to £4 for single rooms, Lamb House, Ardmore Sch. of Engin., accomm 180 m. Fees £3 15s.

STUDENT HEALTH SERVICE. Enrolment by students is voluntary. Interviews and exams conducted by pt-time med. officer (D. B. Gash, MB ChB, MRCP).

STUDENTS' ASSOCIATION. The students' assocn. block is the centre of student activities. It pro-

vides common rooms, cafeteria and limited sporting facilities.

PUBLICATIONS *Calendar* (Dec.), 2s. 6d.; *Gazette* (quarterly); *Bulletins* (occasional); student newspaper, *Craccum*.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS *Bldgs completed* house properties adapted for use of econ dept, for portion of zool dept and for portion of sch of archit, 2 further house properties converted for staff offices.

NEW CHAIRS Fine arts, psychol

RETIREMENTS J. Turkington (fine arts)

RESIGNATIONS Dr C. F. Kettleborough (engn), apptd prof of mech engn, N S W; B. H. Fairrell (geog), apptd assoc prof of geog., Alta; R. G. Ward (geog), apptd lectr in geog., Univ Coll, Lond; Dr D. Campbell (psychol), apptd assoc prof of psychol, Qu; J. Golson (anthropol), to A N U; Mrs M. Colebrook, W. M. Nicholson, J. Gould, apptd sr lectr, Wellington; W. T. Roy, apptd lectr in hist, Waikato branch; F. D. O. Fielding, apptd dep librarian, W. Aust.

DEATHS Dr T. H. Scott (psychol), Dr M. Winata (adult educn).

Statistics

STUDENT NUMBERS, 1961

(as at July 1, 1961)

	Full-Time	Part-Time	External
Men	1682	1667	460
Women	594	530	144
Total	2276	2197	604

Distribution by Faculties (excluding external students) *Archit*, 355; *arts*, 1628; *comm.*, 703; *educn.*, 43; *engin.*, 368; *fine arts*, 169; *law*, 351; *music*, 53; *sci*, 803. Total 4473

Included in the figures above are—

Postgraduate students, 253.

New admissions, 1382

Students from other countries, 110. (Countries from which largest numbers came: Pacific area, 58; S E Asia, 42)

DEGREES AWARDED (by Univ of N Z) (1960) *Archit*: BArch, 11; *Arts*: BA, 137; MA (hons), 28; MA, 14; PhD, 1. *Comm*: BCom, 16; *Engin*: BE (hons), 7; BE, 29; ME, 3; *Law*: LLB, 45; LLM (hons), 3; *Mus*: MusB (hons), 1; MusB, 1; *Sci*: BSc, 78; MSc (hons.), 18; MSc, 6; PhD, 3; DSc, 1. Total number of first degrees awarded, 325

DIPLOMAS AWARDED (1960) *By Univ of N Z* DipHons, 1; DipEd, 7; DipFineArts (hons.), 3; DipFineArts, 5; DipJourn, 1; DipObst, 6. *By Univ of Auckland*: DipArch, 8; ExecDipMus, 3; DipUrbVal, 1

[Information compiled as at June 1961]

UNIVERSITY OF CANTERBURY*

Founded 1873

Postal Address: P.O. Box 1471, Christchurch, C.1, New Zealand

Telephone: Christchurch 65-819

VISITOR—THE MINISTER OF EDUCATION

CHANCELLOR—C. H. PERKINS, BCom

VICE-CHANCELLOR AND RECTOR—L. L. POWNALL, MA PhD

* Member of the Association of Universities of the British Commonwealth

NEW ZEALAND

REGISTRAR—G. G. TURBOTT, MC, BA BCom

LIBRARIAN—C. W. COLLINS, MA, FLA

TEACHING STAFF

[†=Part-Time]

Accountancy			Miller, G M, BA MCom	Sr Lectr
Carrington, A S, MCom, FRANZ, FCIS	Prof			Sr Lectr
Battersby, G. B, PhD Lond., MCom	Lectr.			Lectr.
Davenport, F., MCom	Lectr	Tay, F		Asst. Lectr
Hopkins, R W, BCom	Asst Lectr			
Drake, B J., BA LLM	†Lectr	Education		
Fiampton, K W., LLB	†Lectr	Field, H E., PhD Lond, MA		Prof
Holland, A D, LLB	†Lectr	Ford, C. T., MA		St. Lectr
Jensen, K J, BCom	†Lectr	Lawrence, P. J., MA PhD		Sr. Lectr
Robertson, J A, BCom LLB	†Lectr	Lenz, E O, BSc Lond, DipEd Camb, MA		Lectr
Scott, L. E, BCom	†Lectr	Small, J J, PhD Ohio, MA		Lectr.
Stanley, B. L., LLM	†Lectr.	Beardsley, Mrs Nada M, EdM Philadelphia, MA		Asst Lectr
Botany			Engineering, see below	
Philipson, W. R, BA Camb, PhD Lond	Prof	English Language and Literature		
Arnold, B. C, MSc	Sr. Lectr	Garret, J C, MA Alta & Oxon		Prof
Sheat, D E G, PhD Manc., MSc	Sr. Lectr.	Rhodes, H. W., MA Melb	Assoc	Prof.
Mayer, Margaret, DSc	Sr Lectr	Stockwell, A W, BLitt Oxon ,		
Brownlie, G, MSc	Sr Lectr	MA BSc		Sr. Lectr.
Burrows, C J, MSc	Asst Lectr.	Baigent, L A, MA		Sr Lectr
† Asst. Lectr.		Spear, C. E, MA		Sr Lectr
Chemistry			Copland, R. A., MA PhD	Sr Lectr
Packer, J, DIC, MSc Melb, FRIC, FNZIC	Prof	Turner, G. W, MA PhD Tor		Lectr.
Wilkins, C. J., DIC, PhD Lond, MSc	Reader	Frean, R. G, MA BSc		Lectr
Vaughan, J, MSc Wales	Reader	Barrett, C R, PhD Berne, MLitt Camb.		Lectr
Metcalf, W S., DPhil Oxon., MSc MusB	Sr. Lectr			Lectr
Penfold, B R, PhD Camb, MSc	Sr Lectr	Greenwood, E B, MA BLitt Oxon	Asst	Lectr
Christensen, M T, MSc PhD	Lectr	Ruthven, K K, MA Manc	Asst	Lectr
Austin, J M, MSc PhD	Lectr	Fine Arts		
Fischer, A., MSc PhD	Lectr.	Simpson, H J.		Prof
Topsom, R D, PhD Lond, MSc	Lectr	Doudney, E J.	Sr	Lectr
Fergusson, J. E, PhD Lond., MSc	Lectr	Clark, R S	Sr	Lectr
Hartshorn, M P, BSc Lond, DPhil Oxon	Lectr	Sutton, W A, DipFA	Sr	Lectr
Kirk, D. N, BSc PhD Lond	Lectr	Oakley, W. J, DipFA		Lectr
	Lectr	Knight, J N., DipFA		Lectr
† Asst Lectr		Akins, Florence E., DipFA		Lectr.
Classics			Lovell-Smith, R de B., DipFA	Lectr.
Kidd, D A, MA Aberd. & Camb	Prof.	Gopas, R		Lectr
Steven, Marion K., MA MB ChB	Sr Lectr	Taylor, T. J., DipFA	Asst.	Lectr.
Sumner, G. V., MA Oxon	Sr Lectr.	Geography		
McGibbon, D. D., MA St And	Lectr.	Johnston, W B, MA		Prof
	Lectr	McCaskill, M, MA PhD	Sr	Lectr.
Hindley, H N, MA Camb.	Asst Lectr	Soons, Jane M, BA Sheff, PhD Glas		Lectr.
Economics			King, L J, PhD Iowa, MA	Lectr
Weststrate, C, LLD Ley.	Prof	Golledge, R G, MA N E		Lectr
Danks, A. J, MA	Assoc. Prof.	Rayner, J R, BA Birm		Lectr
Rosenberg, W., MCom, FRANZ	Sr. Lectr.	McCarty, H H, MA PhD Iowa	Visiting	Prof

Geology

Allan, R. S., PhD <i>Camb</i> , DSc, FRSNZ,	
FGS	Prof
Gage, M., DSc	Reader
Frost, M. J., BSc PhD <i>W Aust</i> , FGS	Lectr
Edgell, H. S., BSc <i>Syd</i> , PhD <i>Stan</i>	Lectr
Sevon, W., BA <i>Ohio Wesleyan</i> , MA <i>S Dakota</i> ,	
PhD <i>Ill</i>	Lectr
..	Lectr
..	Lectr

History and Political Science

Phillips, N. C., MA	Prof.
Saunders, J. J., MA <i>Lond</i>	Sr Lectr
Pocock, J. G. A., PhD <i>Camb.</i> , MA	Sr Lectr.
Gardner, W. J., MA	Sr Lectr.
Newman, K. J., DPhil <i>Oxon</i> , DrJur <i>Prague</i>	St Lectr
Paikar, G. H. W., MA <i>MLatt Camb.</i>	Lectr
Catanech, I. J., PhD <i>Lond</i> , MA	Lectr
Adshad, S. A. M., MA <i>Oxon</i>	Lectr
Orange, G. V., BA <i>Hull</i>	Lectr
Paltel, K. Z., BA <i>McG.</i> , MA <i>Tor</i>	Lectr
Young, S. V. R., MA	Asst. Lectr

Law

Gray, H. R., LL.M. <i>Lond</i>	Prof
Kilbride, P. E., LL.M.	Sr Lectr
Bowron, R. H., LL.B.	Lectr
Cunningham, W. G. F., LL.B.	Lectr.
De Goldi, R. J.	Lectr.
Drake, B. J., BA LL.M.	Lectr.
Edgley, R. W., LL.B.	Lectr.
Mouat, R. J., BA LL.B.	Lectr.
Sandston, G. C. C., LL.M.	Lectr.
Somers, E. J., BA LL.B.	Lectr.
Wills, E. P., BA LL.M. MCom	Lectr.
Wood, S. H., MLatt <i>Camb</i> , LL.B.	Lectr.

Mathematics

Lawden, D. F., MA <i>Camb</i>	Prof
Andress, W. R., MA <i>Camb</i> , BSc <i>Mane</i>	Assoc Prof
De la Bere, J. C. W., MA <i>Camb</i>	Sr Lectr.
Long, R. S., BA <i>Camb</i> , MSc	Sr Lectr.
Wilkins, C. A., MSc	Sr Lectr
Moon, B. A. M.	Sr Lectr
Harding, F. Mary, PhD <i>Edin</i> , MA	Lectr.
..	Lectr
..	Lectr
..	Lectr

Modern Languages

Sussex, R. T., MA LLB <i>Melb.</i> , DUParis	Prof.
Carter, T. E., BA <i>Leeds</i>	Sr Lectr
Troup, G. S., LèsL <i>Poitiers</i> , MA	Sr Lectr
De Laberis, E., MA DipEd <i>Vlaivostock</i> ,	
LèsL <i>Paris</i>	Sr Lectr
Leov, Nola M., MA	Lectr.

Brooks, A. N., MA	Lectr.
O'Neill, K. M., MA <i>Melb.</i>	Lectr.
Lojkin, A. K., BA <i>Melb</i>	Lectr.
Poujol, B., LèsL Dipl'd'EtSup <i>Paris</i>	Lectr
Munz, Renate, DrPhil <i>Munich</i>	Lectr

Music

Ritchie, J. A., MusB	Prof.
Toovey, M. H., DMus <i>Lond</i>	Sr Lectr
Stone, D. C., BA <i>Camb</i>	Lectr.
Rogers, Mrs Elizabeth A	Lectr.
Rogers, T. G. H., BA <i>Camb</i>	Lectr.
Till, M. A., MA DipMus, FTCL	Lectr

Philosophy

Shorter, J. M., MA <i>Oxon</i>	Prof.
Zedins, R., MA PhD <i>Melb</i>	Lectr
Thornton, J. C., MA	Lectr

Physics

McLellan, A. G., PhD <i>Edin</i> , MSc,	
FRSNZ	Prof
Ellyett, C. D., PhD <i>Mane</i> , MSc, FRSNZ	Reader
Roth, K. W., BA	St Lectr.
Gregory, J. B., MSc PhD	St Lectr
Bloor, D., BSc PhD <i>Lond.</i>	Sr Lectr
Seed, T. J., MSc	Lectr
Keny, C. S. L., MSc	Lectr.
Ross, A. W., MA PhD <i>St. And</i>	Lectr.
Fraser, G. J., MSc <i>Camb. & N Z</i>	Lectr
	Asst Lectr

Psychology

Crowther, A., MA PhD <i>Camb</i>	Prof.
Thompson, R. H. T., MA	Sr Lectr.
Shouksmith, G. A., MA <i>Edin</i>	Lectr
Valett, R. E., MA <i>Chic</i> , EdD <i>Calif</i>	Lectr
Rodda, M., BSc <i>Dwh</i>	Lectr
	Lectr
Pollard, J. S., MA	Asst Lectr.

Zoology

Knox, G. A., BA MSc	Prof
Pilgrim, R. L. C., PhD <i>Lond.</i> , MSc	Sr Lectr.
Stonehouse, B., BSc <i>Lond.</i> , DPhil <i>Oxon</i>	
Nurse, Frances R., MSc	Sr Lectr.
Stout, Vida M., PhD <i>Lond</i> , MSc	Lectr
Morgans, J. F. C., MA <i>Camb</i> ,	Lectr.
PhD <i>Cape T</i>	Lectr.
Johns, P. M., MSc	Asst Lectr.
Benzie, Vivienne, MSc	Asst Lectr
Godley, E. J., PhD <i>Camb.</i>	Hon Lectr.

ENGINEERING**Chemical Engineering**

Siemon, S R, BSc MScApp Q'ld.	Prof
Hagyard, T., BSc PhD Lond	Sr Lectr.
Smith, S C J., ME BSc Syd, BD Melb.	Lectr
Keey, R B, BSc PhD Burm	Lectr.
.	Lectr
.	Asst. Lectr

Civil Engineering

Hopkins, H J, DFC, MA Oxon, BSc	Prof
BE W Aust, MICE	Sr Lectr
Alley, P J, BE, MNZIE	Sr Lectr.
Henderson, F M., MSc BE	Sr Lectr.
Simpson, A. H, BE	Sr Lectr
Willman, A., BSc(Eng) Lond.,	Sr Lectr.
MScTech Manc.	Sr Lectr.
Lu, F P-S, BSc(Eng) Shanghai	Sr Lectr.
Giddens, E P, BE	Lectr
Scrivener, J C, BSc ME	Lectr.
Shepherd, R, BSc(Eng) Leeds	Lectr.
Yao, K. M., BSc(Eng) Pui Yang,	Lectr.
MSc(Eng) N Carolina	Lectr.
Paulay, T, BE	Lectr
Dodd, T. A. H, BE	Lectr.
Powell, G H, BE	Lectr
.	Lectr
.	Lectr
.	Asst. Lectr

Electrical Engineering

MacEjwee, N M, BSc Glas., MEE	Prof.
Neale, R. D, BE, MIEE	Sr. Lectr.

Bowen, W H., BSc(Eng) Lond., MIEE	Sr. Lectr
Withers, B T.	Sr Lectr
Woodward, J. L, MAsc, Tor., BE	Sr Lectr
Stephen, K., BSc(Eng) Manc.	Sr. Lectr
Baith, A. H., ME	Lectr
Currie, C V., ME	Lectr

Mechanical Engineering

Rastrick, R. J., BE, MIMechE	Prof
Adams, H F. T., MA Camb	Assoc Prof
Hewitt, N E, BE	Sr Lectr.
Burton, A., BSc(Eng) Manc.	Sr Lectr.
Rodger, M, BE	Sr Lectr.
Stevenson, D. C, BSc BE	Sr Lectr
Whittle, G., BSc(Eng) Lond	Sr Lectr
Newstead, W F.	Lectr
Fahy, F W	Lectr
Satterthwaite, C. A., BSc(Eng) Lond.	Lectr
Bewley, N. J., BE	Lectr.

ADULT EDUCATION

Rutherford, D W, MA	Dir
Clark, I. G, BA	Tutor
Markwell, D S, MA	Tutor
Smyth, B. W., BCom	Tutor
Williams, B M, MusB	Tutor
.	Tutor
.	Tutor

Specialist Tutors

Worthington, G A., BA	(Drama)
Robins, Ray T., BHSc	(Home Sci)
Borrie, Ann F., DipHSc	(Home Sci)
Peach, L. G, MusB	(Music)
Weir, Wendy J, DipFA	(Arts & Crafts)

ADMINISTRATIVE AND OTHER STAFF

Asst Registrar (Finance). A H H Martin, JP,
BCorn LLB Asst Registrar (Academic) Mrs
Hester B Hewitt, BA Asst Registrar (Bldgs) .
W. D. H Smith, BA BCom Liaison Officer
with Schs E R Hounsell, MSc Phys Educn
Officers: A S Lewis, BA, Christine E. Bassett

STUDENT RESIDENCES Wardens: Helen Con-
non Hall (women), Jane M Soons, BA *Sheff*,
PhD *Glas*; Rolleston House (men), G. A
Shoukasmuth, MA *Edm* Warwick House (men),
I. J Catanach, MA PhD

GENERAL INFORMATION (see also p. 683)

Created by provincial ordinance, 1873, affiliated to Univ of N.Z., 1874 First permanent bldg opened in June 1877 Legislation, to be operative in 1962, is being considered This will result in a new constitution and in the Univ. of Canterbury becoming a full degree-conferring univ

The chief special sch., that of engin, has developed greatly since its establ. in 1890 Among the other sp schs., the sch. of art, opened in 1882, became a fac. of the univ in 1950; and the sch. of agric., opened at Lincoln in 1880, was administered by the univ until 1897, when it became a sep. instn. as Canterbury Agric Coll

CONSTITUTION. In Oct 1957 Canterbury Univ Coll became the Univ of Canterbury, a constituent instn of the Univ of N.Z., the rector becoming vice-chancellor and rector Originally vested in a bd of governors consisting of 23 members who were named and apptd. for life, the govt. of the univ. is now in the control of the univ council, which consists of the vice-chancellor (*ex officio*) and 18 members apptd. or elected: 3 by the governor-general, 2 by Canterbury members of parliament, 5 by grads of the univ, 1 by Canterbury primary sch. teachers, 1 by Canterbury post-primary sch. teachers, 1 by Canterbury educn bd, 2 by the professional bd,

a member representing lectrs, a member representing the students' assocn, and the Mayor of Christchurch. A professional council, set up in 1877 and reconstituted as the professional bd in 1896, includes all profs and such lectrs as are apptd. by the council.

INCOME (1960) Total income, £461,516 (govt grants, 81 per cent, fees, 12 per cent, endowments, 4 per cent, misc, 3 per cent).

FACULTIES AND DEANS (1962) *Arts*, Prof. N. C. Phillips (hist.), *comm*, Prof. C. Weststrate (econ), *engin*, Prof. R. J. Rastrick (mech engin), *law*, Prof. H. R. Gray, *music & fine arts*, (music), *sci*, Prof. G. A. Knox (zool).

UNIVERSITY PRECINCT In 1949 the council decided to proceed with the transfer of the univ to a new site of 150 acres, about 3 mls from the centre of the city. A siting plan has been adopted which includes bldgs for the facs of arts, sci, engin and fine arts and admin. The first major bldg, that of the sch of engin, is now occupied. Working drawings for a series of bldgs to accomm the chem, phys, zool, bot, geol, maths, geog, psychol and philos depts have been prepared and the new bldgs will be occupied in 1965. The sch of art is establish on the new site.

LIBRARY Approx 120,000 vols. The library of the Royal Soc of NZ, Canterbury branch, is at present merged with the univ. library. Macmillan Brown collection, approx 15,000 vols, specializing in the Pacific ocean, anthropol. and ethiol. Deptl libraries: engin, chem, and several minor collections. About 1200 periodicals.

LABORATORIES Bot., chem., educn, engin, geol, phys, psychol, zool.

FACILITIES OF SPECIAL INSTITUTIONS Univ of Canterbury industrial development dept—to handle industrial research.

ENTRANCE REQUIREMENTS As prescribed by the Univ of New Zealand in its calendar for the yr 1961.

NON-MEMBERS OF THE UNIVERSITY may attend classes if over 16 yrs of age.

FIRST DEGREES BA, BCom, BSc pass, 3 yrs (4th yr for BSc (hons)), MusB pass, (hons.), 4 yrs., BE(Civil), BE(Electr), BE(Mech), BE(Chem) pass, (hons.), 4 yrs., LLB, 5 yrs.

BSc pass + 8 units incl 3 units higher than stage I, one at least a stage III unit. BSc (hons) 1 yr sci inter, then study in suby of hons sch and in 1 major (2 yrs) and 2 minor (1 yr) subaid subys, one a foreign lang (reading). Subys of hons. schs: biochem, bot., chem., geog, geol., maths., microbiol, phys., physiol, psychol, zool.

HIGHER DEGREES MA, MCom, LLM, 1 yr from bachelor's degree, MSc, MEd, 2 yrs from BSc, BE or 1 yr from BSc (hons), BE (hons), PhD, 2 yrs. from master's degree with hons, BSc

(hons), BE (hons.), MusB (hons). A course of advanced instrcn is provided. The PhD is open to grads of other univs who are admitted to status of grad of Univ of NZ.

EXTERNAL DEGREES Exemption from attendance at lectures granted only in certain subys of BA, LLB, BCom, MusB, LLM, MCom to those residing in Canterbury, West Coast and parts of adjoining provinces.

DIPLOMAS DipEd, 1 yr postgrad or 2 yrs undergrad, DipMus, 3 yrs, DipFA, 4 yrs, DipFA with hons, 1 yr from DipFA.

RESEARCH Normal res facilities available in sci labs and opportunity for sp interests in field subys and meteorol.

STUDY LEAVE Refresher leave is granted on salary, and normally a sp travel grant is provided.

INCLUSIVE ANNUAL CLASS FEES. Arts, about £22, sci, about £30, fine arts, about £23, law and comm, about £15, engin, about £35.

ACADEMIC YEAR March to Nov. 3 terms of 10, 11 and 6 weeks.

ADULT EDUCATION Town and country groups in north, mid and south Canterbury, Buller, and Westland in social and international studies, fine and practical arts, etc.

'OPEN' POSTGRADUATE AWARDS. Lord Rutherford memorial res fellowship, open to grads of NZ Univ. or of any other Commonwealth univ who have resided in NZ for not less than 3 yrs, offered every 2nd yr, value approx £500.

STUDENT RESIDENCES Controlled by univ (for wardens, see 'Admin & Other Staff', above). Rolleston House, Worcester St, Christchurch, C 1 (tel. 79-691) (80 men), Warwick House, Armagh St, Christchurch, C 1 (tel. 79-721) (45 men), Helen Connon Hall, Chester St, Christchurch, C 1 (tel. 79-651) (66 women). Controlled by reps of churches but open to members of all religious denominations. Christchurch College, Rolleston Ave, Christchurch, C 1 (tel. 64-080) (74 men), Bishop Julius Hostel, 10 Cranmer Sq, Christchurch, C 1 (tel. 79-997) (50 women), Rochester Hall, Bealey Ave, Christchurch (tel. 65-210) (34 men); Rosary House, 128 Park Tce (tel. 79-444) (24 women). Fees per week from about £4 10s.

STUDENT HEALTH SERVICE. Med. dit in attendance, voluntary enrolment by students.

STUDENTS' UNION Students' union bldg, centre of student activities and a 'club-house' available to all students.

PUBLICATIONS *Calendar* (Dec), 5s. Prospectuses of Schs of Engin and Art (Feb.), free. Student journal *Canta*, 13 issues p.a, sub 5s., *Gazette*, publ. periodically.

THE YEAR 1960

NEW CHAIR Accountancy

RETIREMENTS Prof G Jobberns (geog.)

RESIGNATIONS Dr H Sampson (psychol),
apptd prof of psychol, Auckland, G C Smith
(maths), apptd sr lectr in maths, Monash,
Prof L. L. Pownall (geog), apptd vice-chancellor
& rector, Canterbury, W P Packard (geog),
apptd lectr in geog & warden, hall of residence,
A.N.U., I W. Taylor (law), to private practice,
M Arnold (civil engin), apptd sr lectr in civil
engin, Adel, Dr. R. G. H. Prince (chem engin),
apptd sr lectr in chem engin, Syd

DEATHS S J Irwin (member of council,
1947-60)

HONORARY DEGREE (Univ of N Z) *LatitD*—
Emer Prof A Wall, formerly prof of Engl

Statistics

STUDENT NUMBERS, 1961

	Full-Time	Part-Time	External
Men	1558	1062	107
Women	459	390	31
Total	2017	1452	138

Distribution by Faculties *Arts*, 1320, *comm*,
531, *engin*, 693, *law*, 203, *music & fine arts*,
176, *sci*, 684 Total 3607

Included in the figures above are —

Postgraduate students, 207

New admissions, 903

Students from other countries, 69. (Countries
from which largest numbers came Fed of
Malaya, 31, Fiji, 11)

DEGREES AWARDED (by Univ of N Z) (1960)
Arts BA, 132, MA, 41 *Comm* BCom, 15,
MCom, 1 *Engin* BE, 54, BE (hons), 21,
ME, 5 *Law* LLB, 18, LLM, 1 *Music*
MusB, 2, MusB (hons), 1. *Sci* BSc, 65, BSc
(hons), 4; MSc, 25, DSc, 1 PhD (all facs) .
4 Total number of first degrees awarded, 312

DIPLOMAS AWARDED (by Univ of N Z) (1960)
DipEd, 1, DipFA (hons), 4, DipFA, 18,
DipMus, 2

[Information compiled as at 1/7/61]

UNIVERSITY OF OTAGO*

Founded 1869

Postal Address P O Box 56, Dunedin, New Zealand

Cables and Telegrams University, Dunedin

Telephone Dunedin 79-561

VISITOR—H E THE GOVERNOR-GENERAL OF NEW ZEALAND

CHANCELLOR—Rev H J. RYBURN, CMG, BD U.T.S (N Y.), MA Oxon & N Z

VICE-CHANCELLOR—F. G. SOPER, CBE, PhD DSc Wales, FRIC, FRSNZ, FNZIC

PRO-CHANCELLOR—T. K. SIEVEY, LLM

HON TREASURER—C. V. SMITH, CBE

REGISTRAR—J W. HAYWARD, BCom

LIBRARIAN—J McELDOWNY, MA

TEACHING STAFF

[†=Part-Time]

Anthropology

Gathercole, P W., BA Camb

Biochemistry

Lect. Edson, N L, PhD Camb, BMedSc MB

ChB, FRSNZ, FNZIC

Prof

Batt, R D, MA DPhil Oxon, MSc PhD,

FRIC

Assoc. Prof

Bacteriology, see Microbiol.

* Member of the Association of Universities of the British Commonwealth

Hunter, G. J. E., MSc, FRIC Sr. Lectr.
 Cousins, F. B., MSc PhD Sr. Lectr
 Shaw, D. R. D., DPhil *Oxon.*, MSc PhD Sr. Lectr
 Exton, J. H., BMedSc MB ChB Asst. Lectr

Botany

Baylis, G. T. S., DIC, PhD *Lond.*, MSc, FRSNZ Prof.
 Slade, Brenda F., PhD *Camb.*, MSc Sr. Lectr
 Holdsworth, M., DIC, BSc PhD *Lond.* Sr. Lectr
 Wylie, Ann P., MSc Sr. Lectr
 Mark, A. F., PhD *Duke*, MSc Sr. Lectr
 Scott, G. A. M., BSc *Glas* Asst. Lectr

Chemistry

Parton, H. N., PhD *Lond.*, MSc, FNZIC Prof.
 Corbett, R. E., PhD *Camb.*, MSc, FNZIC Reader
 Campbell, A. D., MSc PhD Sr. Lectr
 Kennedy, A. M., PhD *Camb.*, BSc BE Sr. Lectr
 Malcolm, G. N., PhD *Manc.*, MSc Lectr
 Panckhurst, M. H., DPhil *Oxon.*, MSc PhD Lectr
 Williamson, A. G., PhD *R'dg.*, MSc Lectr
 2 Asst. Lectrs.

Classics

Manton, G. R., MA *Camb.* Prof.
 Hamilton, J. R., MA *Edin. & Camb.* Sr. Lectr
 Thornton, Mrs. Agathe H. F., BA *Camb. & Lond.*, PhD *Edin.* Sr. Lectr.
 Green, J. R., BA *Lond.* Lectr
 Long, A. A., BA *Lond.* Lectr

Commerce

Cowan, T. K., MCom (Accty) Prof.
 Valentine, J. A., BCom, FPANZ †Lectr.
 Sinclair, R. S. M., BA MCom DipSocSc †Lectr.
 Tilly, H. S. J., FPANZ †Lectr.
 Gilson, W. S., BCom, FPANZ †Lectr.
 Ross, H. J., LLB †Lectr.
 Ross, H. J., BA LLB †Lectr.
 3 Tutors †

Dentistry, see below

Economics

Williams, J. W., PhD *Lond.*, MCom Donald Reid Prof.
 Bernardelli, H., DPh *Fran.* Reader
 Sr. Lectr
 Lectr

Education

Mitchell, F. W., MA BSc *Adel.*, PhD *Lond.* Prof.
 Hill, C. G. N., PhD *Lond.*, MA DipEd Sr. Lectr
 Connor, D. V., BA BEd *Q'id.*, PhD *Lond.* Lectr
 Adams, R. S., MA DipEd Lectr.
 Melvin, K. H., MA DipEd DipSocSc Lectr

English Language and Literature

Horsman, E. A., MA *Oxon. & N.Z.* Prof.
 Dalziel, Margaret, DPhil *Oxon.*, MA *Oxon. & N.Z.* Reader
 Cameron, G. M., MA *Lond. & N.Z.* Sr. Lectr.
 Robertson, R. T., MA Sr. Lectr.
 Maslen, K. I. D., BLitt *Oxon.*, MA Lectr.
 Gibson, C. A., MA Lectr.
 Harty, Lenore, BA *Oxon.*, MA Lectr

French, see Mod. Langs

Geography

Laster, R. G., BA *Lond.* Sr. Lectr -in-Charge
 Brockie, W. J., MA *Edin.* Lectr
 Hargreaves, R. P., MA *Wis. & N.Z.* Lectr
 Maundie, W. J., MSc Lectr
 Forrest, J., MA Asst. Lectr

Geology

Coombs, D. S., PhD *Camb.*, MSc, FGS Prof.
 Campbell, J. D., MSc, FGS Sr. Lectr
 Hodgson, W. A., DIC, BSc PhD *Lond.* Lectr
 Mcans, W. D., AB *Haro.*, PhD *Calif.* Lectr
 Wright, J. B., BSc *Oxon.* Lectr.

German, see Mod. Langs

Hebrew

Geering, Rev. L. G., BD *Melb Div. Coll.*, MA Lectr

History

Morrell, W. P., DPhil *Oxon.*, MA Prof.
 Ross, A., MC & Bar, PhD *Camb.*, MA Reader
 Olssen, E. A., MA *Adel.* (Pol. Sci.) Sr. Lectr
 Paisonson, G. S., BEM, MA Lectr
 Jackson, W. K., BA *Nott.* Lectr
 Mitchell, A. V., MA *Manc.* Lectr
 Page, Mrs. Dorothy P., MA Asst. Lectr

Home Science

Coleman, Patricia D., MS *Texas*, DipHSc Prof.
 Jackson, Phyllis R., MHSc DipEd
 (Methods of Teaching) Sr. Lectr.
 Gray, Eleanor M., MS *Iowa*, BHSc DipEd
 (Foods) Sr. Lectr.
 Esplin, T. (Design) Sr. Lectr.
 Macfarlane, Catherine E., BHSc
 (Institutional Management) Lectr.
 Swindells, Yola E., MHSc (Nutrition) Lectr.
 (Clothing) Lectr.
 Robinson, Mrs. Marion F., PhD *Camb.*, MHSc (Nutrition) †Lectr
 Shaw, Mrs. Helen M., MHSc (Nutrition) †Lectr
 Watt, Margaret J., BHSc (Clothing) Asst. Lectr.
 McIntosh, Esme M., DipHSc
 (Institutional Management) Asst. Lectr.
 Macdonald, Fiona (Design) †Asst. Lectr

Carr, Mrs Nancy J, BHSc (Foods) Asst. Lectr
Cook, Jocelyn D, DipHSc

(Clothing) Asst Lectr

Clemett, Mrs Helen R, BHSc
(Nutrition) †Asst Lectr

Graham, Mrs Patricia M, BHSc
(Nutrition) †Asst Lectr

Holst, Mrs Alison M, BHSc
(Foods) Asst. Lectr

Humphreys, Mary A., BHSc
(Foods) Asst Lectr

McLean, Valerie R, DipHSc
(Clothing) Asst. Lectr

Shaw, Elizabeth J, BHSc
(Textile Chem) Asst Lectr

Wilson, Margaret N, BHSc
(Nutrition) Asst Lectr.

Law

Guest, F W, MA LLM Prof

Holden, A C, BA LLB BCom Sr Lectr

Allan, N W, LLB
(Company L & Partnership) †Lectr

Caudwell, M M (Conveyancing) †Lectr

Alloo, P B, MA LLM (Roman L) †Lectr

More, J. S D, LLB (Contracts) †Lectr

Mitchell, M M, LLB

(Procedure & Family L.) †Lectr

Nevill, P H W, LLB
(Equity, Succession, Adminis-
trative L.) †Lectr

Reid, W H., LLM (Land L) †Lectr.

Ross, H S., LLB (Criminal L) †Lectr.

Johnston, T N, LLB (Comm L) †Lectr

Marine Biology

Batham, Elizabeth J., PhD Camb, MSc
Sr. Lectr.

Mathematics, Pure and Applied

Sawyer, D. B., MA Camb Prof.

Sida, D W, MSc PhD Lond. Sr Lectr

Stoddart, A W J, MSc Lectr

Wong, W. J., PhD Harv., MSc Lectr.

Harris, R. P, MSc Asst Lectr

Medicine, see below

Microbiology

Miles, J A. R., MA MD BChr Camb.,

FRACP Prof

Marples, Mrs. Mary J, MA Oxon., MD

Assoc Prof.

Markham, N. P., DPhil Oxon., BSc

MB ChB Assoc. Prof.

McNamara, F N, MA MD Camb Sr Lectr

Louitt, J. S., BSc PhD Adel. Sr Lectr.

Fitzgerald, N. W., MSc MB ChB Lectr

Howarth, Sheila, BSc PhD Lond Lectr.

Modern Languages

Herd, E. W, MA Camb Prof

Stone, R G., DU Paris, MA (French) Sr. Lectr.

Trabing, H G (German) Lectr

Edwards, P M. H, BA Br Col, MA Col

& Harv, PhD Penn Lectr

Adereth, M., BA PhD Lond Lectr

Zussermann, N V, PhD Vienna Lectr

Lelong, D. P Lecteur

Music

Platt, P, MA BMus BLitt Oxon Blair Prof

Harris, L P, BA MusB Lectr

Byars, D A, MusB Lectr

Philosophy and Psychology

Taylor, D., DipEd W Aust, MA W Aust

& Oxon, Hon MA Melb Prof

Durrant, R G, MA Sr Lectr

Thornton, Rev. H, MA Edm. Sr. Lectr

Bernardelli, Mrs Betty M, MA Camb

Sr Lectr

Toussaint, Juliet F, MA Edm, BA Oxon. Lectr

Physical Education

Smithells, P A., MA Camb.

Assoc Prof., Dir of Sch

Cameron, P E, MA Sr Lectr

Carter, J. E L, PhD Iowa, DipPhysEd Lectr

Golding, L Annette, DipPhysEd Lectr

Southgate, Winifred A, DipPhysEd Lectr.

3 Asst Lectrs

Physics

Nimmo, R R., PhD Camb, MSc, FIP Prof.

Dodd, J. N., PhD Birm., MSc Reader

Stack-Forsyth, E F, BSc PhD

DipEd Natal Sr. Lectr

Kennedy, W. L., MSc W.Aust.,

PhD Purdus Lectr

Dawber, K. R., MSc M I T Lectr

Entwistle, R F., BSc PhD St And Lectr

... Lectr

2 Asst. Lectrs

Physiology

McIntyre, A K, BSc MB BS Syd Prof

Robinson, J R., MD BChr PhD Camb.

Assoc. Prof.

Satchell, G H., BSc Lond., PhD Leeds Sr. Lectr

Bradley, K, MSc Manc Lectr

Batt, Mrs Olga D., MB ChB †Lectr.

Somyen, G G, MedDrs Amst Lectr

Veale, J L, MB ChB Lectr

2 Asst. Lectrs

Psychology, see Philos. and Psychol

Technology

Williams, G. J, DIC, PhD Lond, MSc BE,

MNZIE Prof

Mackie, J. B., MSc BE, FGS

(Surveying) Assoc. Prof.

Buchanan, D E, BE (Engin) Sr Lectr

Carter, J. J, BMetE Melb (Metall) Sr Lectr.

Stott, J. B, BSc PhD Leeds (Coal Res) Sr. Lectr

Buckenharn, M H, BE
(Mineral Engin.) Sr Lectr
Standish, N, BSc *N S W* Sr Lectr
Anderson, A M, BSc *Durh* Lectr
Shackleton, A J, BE Hon Lectr

Theology

Henderson, Rev J, MA PhD *Edm* †Lectr
Allan, Rev J A, DD *Edm*, MA (New T.) †Lectr.
Haddon, Principal A L., MA *Melb.*,
DD *Butler* (Church Hist) †Lectr.
Geering, Rev. L G., BD *Melb. Div Coll.*,
MA (Old T.) †Lectr
Rex, Rev. H. H., DrTheol *Tubingen*, MA
(Church Hist.) †Lectr.

Zoology

Marples, B J., MA *Oxon.*, MSc *Manc*,
FRSNZ Prof
Brewin, Beryl I, DSc Sr Lectr
Scott, D, BSc *Aberd*, PhD *Manc* Lectr
Perryman, Judith C, BSc *Lond.* Lectr.

DENTISTRY

Basic Dental Sciences

Shroff, F R, DDS Assoc Prof.
Gavin, J B, BDS Lectr

Conservative Dentistry

Warren, J Le B, MDSc *Melb*, BDS,
FDSRCSed Prof
Chrimsdale, I M, DDS Sr Lectr
Barr, A M, BDS Sr Lectr

Medicine

Chapman, O. W, MB ChB, MRCP,
FRACP †Lectr

Oral Medicine and Oral Surgery

Walsh, Sir John, KBE, MB BS DDSc
Melb, Hon MDS *N U I*, FDSRCS,
FDSRCSed, FRSNZ Prof
Macalister, A D, DDS Sr Lectr
Donaldson, K I, BDS *Syd*, FDSRCS Sr Lectr

Orthodontics

Gresham, A H, DDS Sr. Lectr.
Kean, M. R, MDS Lectr.
Harding, J F A, BDS Lectr

Periodontia

Cunningham, W M., MBE, DDS *Tor*,
BDS Sr Lectr.

Pharmacology and Therapeutics

Kilpatrick, J A, MD, MRCP, FRACP †Lectr.

Preventive, Public Health and Children's Dentistry

Davies, G N., DDS Assoc Prof.
King, R. M, MS *Mitch*, BDS †Lectr

Prosthetic Dentistry

Craddock, F. W., MSD *Northwestern*, DDS
BA DipEd Prof.
Johnston, J W., DDS Sr. Lectr
Stockwell, R. F., BDS Lectr
Bliss, H D, BDS Lectr.

Surgery

Fitzgerald, H. W., MB ChB, FRCSEd,
FRACS †Lectr.

Dental Hospital Department

Adams, D B., MDS Sr Dent. Surgeon
2 Asst Surgeons

MEDICINE

(For Biochem., Microbiol., Physiol., see above)

Anæsthetics

Ritchie, J. R, MB ChB, FFARCS †Sr Lectr
Chisholm, D I, MB ChB, FFARCS †Lectr.
9 Asst Lectrs †

Anatomy

Adams, W. E., PhD *Leeds*, DSc BMedSc
MB ChB, FRSNZ Prof
Trotter, W D, DPhil *Oxon.*, MB ChB Sr Lectr
Robinson, L R, MD Sr Lectr
Adams-Smith, W N, MB ChB Lectr
Carman, J B, BMedSc MB ChB Lectr
2 Asst Lectrs, 3 Surgeon Demrs †, 4 Grad
Demrs

Bacteriology, see Microbiol., above

Biochemistry, see above

Diagnostic Radiology

Begg, A C, MD DDR †Sr. Lectr
†Lectr
Jamieson, H. D, MSc (Radiological Phys) †Lectr
2 Asst. Lectrs. †

Ear, Nose and Throat

Wardale, A., MD MS *Lond*, FRCS,
FRACS, MRCP †Sr. Lectr.
Horowitz, S, MD *Vienna*, FRACS,
FRFPGlas †Lectr.
3 Asst. Lectrs †

Gynæcology and Obstetrics

Wright, J. L., MB ChB, FRCS, FRCOG, Prof
FRACS
Stewart, Marian, MB ChB, FRCOG,
MRCPed (Obstet) †Sr Lectr.
Stitchbury, P. C., MB ChB Lectr.
Fitzgerald, J P B., MB ChB BMedSc †Lectr.
Fraser, R. D., MB ChB Lectr

Medical Jurisprudence

D'Ath, E F, MB ChB, FRACP

Ptof.

MedicineSmirk, Sir Horace, KBE, MD *Manc*,
FRCP, FRACP

Res Prof

Mary Glendinning Prof
Caughey, J E, MD, FRCP, FRACP
(Neurol) †Assoc ProfFaster, F N, DPhil *Oxon*, MSc, FRIC
(Pharmacol) Assoc ProfMcQueen, E G, MB BS *Syd*, PhD,
MRCP (Pharmacol) Sr LectrMcGeorge, M, BA MD, MRCP, FRACP
(Ped) †Sr LectrWilson, R F, MB ChB, MRCP, FRACP
(TB) †Sr LectrIronsides, W., MD *Aberd*, DPM
(Psychiatry) †Sr Lectr.Chapman, O. W, MB ChB, MRCP,
FRACP †Sr LectrLewis, L S, A, BMedSc MD, MRCP,
FRACP †Sr Lectr

Hunter, J D., MB ChB, MRCP †Sr Lectr.

Medlicott, R. W, MB ChB, FRACP
(Psychiatry) †Sr LectrStringer, H C W, PhD DTM&H *Edm*,
MB ChB, MRCPed †Sr Lectr

MacLeod, E K, MB ChB, MRCP †Lectr

Bourne, H., MB BS *Lond*, DPM
(Psychiatry) †Lectr

Kilpatrick, J A, MD, MRCP †Lectr

Begg, N C, MB ChB, MRCP (Ped.) †Lectr.

Moore, C S, MB ChB DPM
(Psychiatry) †LectrLord, Josephine M, MD *Lond*, MRCP †Lectr

O'Donnell, T V., MD BMedSc, MRCP †Lectr

Renshaw, P K, MA MB BChir *Camb.*,
MRCP †Hon Lectr.Highton, T. C., MB ChB *Liv*, MRCP
†Hon. Lectr.Woodhouse, F B M., MB ChB, MRCP
(Geriatrics) †LectrTaylor, A J, MD *Aberd*, MRCP (TB) †Lectr.**Ophthalmology**Parr, J C, DOMS *Lond*, MB ChB,
FRCS †Sr Lectr.Macdonald, R. G., DOMS *Lond*, MB
ChB, FRCSed, FRACS †Lectr.**Pathology**

D'Ath, E F., MB ChB, FRACP Prof

Rodda, R A, MD Sr Lectr

Howie, J B, DPhil *Oxon*, MB ChB Sr Lectr

Perry, D J, MD †Lectr

5 Temp Lectrs

Physiology, see above**Preventive and Social Medicine**Dixon, C W., MD *Lond*, DCH DPH Prof
Douglas, A M., MB ChB DPH Sr Lectr.
Hickling, S, MB BS *Durh*, DPH Sr Lectr
Spears, G F S, BA MSc (Stats) Lectr
Walker, N D, MB ChB DPH Lectr
2 Asst. Lectrs †**Radio Therapy**Jerram, C W S, MB ChB |Sr Lectr
Ramsay, F W., MB ChB, FFR |Asst Lectr
Bell, R B, MB ChB †Asst Lectr**Stomatology**Walsh, Sir John, KBE, MB BS DDSc
Melb, Hon. MDS *N U I*, FDSRCS,
FDSRCSed, FRSNZ Ptof**Surgery**Fraenkel, G J, MA BM MCh *Oxon*,
FRCS, FRACS Ralph Barnett Prof
Zeiss, Irmgard M., DrAgr *Gieslen* Res. Asst.
Nisbet, N W, LDS, FRCSed(Orthop S) †Assoc Prof
James, J A, MB BS *Melb*, FRACS
(Neurosurg) †Sr Lectr

Pearse, V T, MC, MB ChB, FRCS, †Sr Lectr

Fitzgerald, H. W, MB ChB, FRCSed,
FRACS (Orthop S) †Sr Lectr.Wilson, S. L., DSO, MB ChB, FRCS,
FRACS †Sr Lectr.Borrie, J, MBE, MB ChM, FRCS,
FRACS (Thoracic S) †Sr LectrRobinson, R G, GM, MB BS *Lond*, ChM,
FRCS, FRACS (Neurosurg) †Sr LectrLudbrook, J., MB ChB BMedSc, FRCS,
FRACS †Sr LectrDawson, E O., MB ChB, FRCSed,
FRACS †LectrAlldred, A. J, MB ChB, FRCS, FRACS
(Orthop S) †Lectr

Heslop, J H, MB ChM, FRCS, FRACS †Lectr

Lichter, I., MB ChB *Rand*, FRCS Lectr

8 Asst Lectrs †

TherapeuticsSayers, E G, CMG, MD, FRCP, FRACP,
Hon FACP, Hon FRCPed, FRSNZ Ptof**Branch Medical Faculties***Christchurch* Landiseth, J F, MB ChB, FRCP,
FRACP (Sub-Dean), with sr staff mem-
bers of *Christchurch Hosp Wellington*
Mercer, J* O, CBE, MB ChB FRCP,
FRACP (Sub-Dean), with sr staff members
of *Wellington Hosp Auckland*. Henley,

W E, MBE, MA DM *Oxon*, FRCP,
FRACP (Sub-Dean), with sr staff members
of Auckland Hosp

Skinner, A N.
Palmer, M., MA
Blackmore, H S, MA

Tutor
Tutor
Tutor

ADULT EDUCATION

Hall, D O W, MA *Camb* Dir
Entwistle, A R, MA *Oxon* Tutor
Kennedy, R E (Drama) Tutor
McKenzie, E D, MusB (Music) Tutor

Home Science Extension Tutors

Carpenter, Emily E, BHS
Du Toit, Mrs Kathleen
Howe, Edna J, DipDomSc *Leic*
King, Judith M., MSc *Oho*, BHS

ADMINISTRATIVE AND OTHER STAFF

Asst Registrar (Finance). G M Broad,
BCom Asst Registrar (Academic). Jean M.
Riley, MBE, MA Accountant H L Gregg,
BCom Sec, Med Fac J H Scott, BEM,
BA BCom Sec, Dent Fac R W Foster,
BCom Dep Librarian E Joy Robinson, MA
Med Sch Librarian H D Erlam, BA Sub-
Librarians D G Esplan, BA, Agnes L
Henderson, BA, Mrs Gloria M Stathern, BA,
J F Dennison, MA Liaison Officer with
Schools Dir, Student Health Service
Prof C W Dixon, MD *Lond*, DCH DPH

Accommodation Officer E W Low, BA.
Wardens of Student Hostels: Studholme House,
Selwyn College, Rev. Canon D S
Millar, MA, Knox College, Rev H J Ryburn,
CMG, BD *U T S* (N Y), MA *Oxon* & N Z; St
Margaret's College, Vida M Barron, MBE, MA,
Carrington Hall, Rev L H Jenkins, BD, Arana
Hall, Rev W C Somerville, BSc PhD *Edin.*,
Dominican Hall, Mother Superior—Mother St
James, Aquinas Hall, Rector—Very Rev Fr
Prior Fitzgerald.

GENERAL INFORMATION (see also p 683)

Founded by ordinance of the Otago provincial council in 1869, with power to grant degrees in arts, med, law and music, the univ was opened in 1871. By an agreement effected in 1874 the univ agreed to hold in abeyance its power of granting degrees, and to become affiliated to the Univ. of New Zealand, in which it ranks as one of the four constituent instns. The law fac originated in 1873, the med sch in 1874, the sch of mines in 1878, the dent sch in 1907, accountancy lectures and the sch of home sci in 1911, the theol fac in 1945 and the sch of physical educn in 1948.

CONSTITUTION The govt of the univ is vested in the council, on which are represented the professional bd, teaching staff, students' assocn, grads (convocation) and a number of educational and other bodies, the governor-general-in-council nominates two members. The council is advised on academic matters by the professional bd.

INCOME (1960). Total £966,899. Gen univ funds, £737,253 (govt grants, 81 per cent, student fees, 9 per cent., endowment lands, gifts, bequests, 2 per cent; other sources, 8 per cent), res schols and sp funds, £200,454; allied instns (adult educn), £29,192.

FACULTIES AND DEANS *Arts & music*, Prof G R Manton (classics), comm, T K Cowan, dent, Prof Sir John Walsh (oral surg), home sci, ; latr, Prof F W Guest, med, Prof E G Sayers (therapeutics); sci, Prof D B Sawyer (maths.), technol, Prof G J Williams, theol, Rev Dr J Henderson.

Sch. of phys educn., dir Assoc. Prof P. A. Smithells

UNIVERSITY PRECINCT. The main bldgs are on the original univ site, but the med. sch has developed so as to be nr. the Dunedin hosp., about $\frac{1}{2}$ ml from the univ site. The devel of new bldgs is being planned so that a continuous univ precinct will link these 2 sections, using an existing public reserve on which the Otago museum stands. The whole area is in a residential district close to the shopping area of the town, and the regional planning authority of the city council has approved the univ plans and zoned the area accordingly. The univ district, incl the city of Dunedin (pop 105,053), comprises the land districts of Otago and Southland (pop 262,500), but students in considerable numbers come from all parts of N Z to attend the sp schs.

LIBRARIES Main library, incl deptl and class libraries, 182,000 vols; med. library, 40,000 vols, also the Hocken collection of 23,300 books, pamphlets and a large collection of MSS relating to hist of N Z and the Pacific.

LABORATORIES, MUSEUMS, FIELD STATIONS Labs in all sci, med, dent, mining and home sci depts. (see Teaching Staff) Deptl museums in anat, pathol and geol. Marine biological lab., Portobello (10 miles from Dunedin).

TEACHING HOSPITALS. Dunedin Public; Wakari, Queen Mary Maternity; Parkside, Ashburn Hall (psychiatric), Seadiff Mental, Christchurch Public, Princess Margaret, Cashmere, Burwood; Sunnyside Mental, Wellington Public, Hutt, Auckland Public, and in Auckland city, Cornwall, Greenlane, Middlemore, National Women's.

ENTRANCE REQUIREMENTS. Special conditions govern entrance to professional classes in the facs of med. and dent, in which annual admissions are limited to 120 and 60 respectively, and entrance to the sch. of physical educn, which admits up to 50 students annually. Non-members of the univ, if over 16 yrs of age, are admissible to most classes.

FIRST DEGREES. BA, BSc—3 yrs, BSc hons (biochem., bot, chem., geol., maths, microbiol., phys., physiol., zool.), BCom, MusB, BHSc, LLB, BEd mining & metall, BPharm—4 yrs, BDS—5 yrs, BMedSc—4 or 5 yrs, MB ChB—6 yrs.

HIGHER DEGREES. MA, MCom, MHSc, LL.M., ME, MDS, MMedSc—1 yr from corresp bachelor's degree, MSc—2 yrs from BSc; BD—2 yrs from 1st degree (all facs), PhD—2 yrs from hons degree (all facs except dent and div). Courses of instructn provided for these degrees except PhD for which facilities for supervised res. available. A 4 yrs' course of pt-time study and res. required for members of staff proceeding to PhD. The degrees of ChM, MD, DDS, LL.D., LittD, MusD and DSc may be earned without attendance or res. within the univ. Grads of other univs. are accepted as candidates for higher degrees by the univ. if their qualifs. are deemed to be of equivalent standard.

EXTERNAL DEGREES. Extra-mural students are accepted only in certain courses (notably arts, comm and law) and must reside within the Univ of Otago district, comprising the land districts of Otago and Southland.

DIPLOMAS, CERTIFICATES, ETC. DipEd, DPH, DipMec—1 yr, DipMus—3 yrs, dipls in land surveying (3 yrs), home sci (3 yrs), phys educn (3 yrs); course for cert in statistics (1 yr.), postgrad. dipl. of diagnostic radiol (2 yrs), assoc of Otago Sch of Mines (thesis).

SPECIAL RESEARCH FACILITIES. Labs of the med. res. council of N.Z., the British Empire cancer campaign (N.Z. branch), Empire rheumatism council and Travis trust (tuberculosis res.) are housed in med. and dent sch. bldgs., and administered through the univ. Sp. coal res. labs. are associated with the sch. of mines. Hydatids res., under grant from the N.Z. govt., is associated with the sch. of med. A list of publications by members of staff and students appears in the annual Univ *Calendar*.

STUDY LEAVES. Refresher leave is granted on salary, and normally a special travel grant is provided. In general, the council will regard as eligible for long leave (3 terms) an applicant who has completed 6 yrs' service before departure, and as eligible for short leave (2 terms) an applicant who departs during or after the last term of the 5th yr of service.

FELLS (approx.) for the course. Arts (3 yrs), £55 (4th yr. for MA extra, £9.08), sci (3 yrs), £70 (4th yr. for MSc extra, £12.12s), law (5 yrs), £85, comm. (4 yrs.), £50, mining &

metall (BE) (4 yrs), £175, home sci, dipl (3 yrs), £110, BHSc (4 yrs.), £145 (5th yr. for MHSc extra, £12.12s); med (6 yrs.), £235; dent (5 yrs), £230, phys educn (3 yrs), £100. Exam fees (not incl. above) up to £12 per yr.

ACADEMIC YEAR. March to Nov. 3 terms of 9, 11, 6 weeks.

ADULT EDUCATION. This dept., financed through natl. council of educn, undertakes general tutorial classes in Dunedin and Invercargill, and in country districts throughout the provinces of Otago and Southland. Through these, and specialized work carried out by drama, music and home sci. extension tutors, community activities and appreciation of the arts are developed. Special short 'summer schools' in poetry, drama and flower arrangement have been held, but no regular vacation courses are offered.

AWARDS. No 'open' awards.

GRADUATES' ASSOCIATION. Univ of Otago graduates' assocn. publishes annually a *Vice-Chancellor's Newsletter to Graduates*.

STUDENT RESIDENCES (for wardens see 'Administrative and Other Staff', above). (Fees: from £4 to £5 per wk.) Selwyn Coll., Castle St., Dunedin, N.1 (tel. 88-326) (Anglican), 90 men; Knox Coll., Opoho, Dunedin, N.E.1 (tel. 39-102) (Presbyterian), 111 men, St. Margaret's Coll., Leith St., Dunedin, N.1 (tel. 77-030) (Presbyterian), 122 women, Arana Hall, 110 Clyde St., Dunedin, N.1 (tel. 78-135) (inter-denominational), 100 men, Carlington Hall, 57 Heriot Row, Dunedin, N.1 (tel. 78-512) (inter-denominational), 60 men and 60 women, Dominican Hall, 44 Park St., Dunedin, N.1 (tel. 70-388) (Catholic), 46 women; Studholme House, Clyde St., Dunedin (tel. 80-791), 116 women, Aquinas Hall, 74 Gladstone Rd., Dunedin (tel. 39-003) (Catholic), 85 men.

STAFF RESIDENCES. Temp. housing for new members of staff arranged by a sp. cttee. of univ. council.

O. U. MEDICAL COMPANY. Two weeks' annual camp, and day parades each term.

STUDENT HEALTH SERVICE. Administered by prev. med. dept. of med. sch., voluntary enrolment by students allows for periodical health assessments and discussions as well as sickness care.

STUDENTS' UNION. The Otago univ. students' assocn. has offices in the union bldg. which contains a univ. hall, rooms for student societies, common rooms for men and women, locker rooms, a cafeteria and a miniature theatre.

PUBLICATIONS. *Calendar* (Dec), 5s., G. E. Thomson, *A History of the Univ of Otago, 1869-1919*, o/p, D. W. Carmalt-Jones, *Annals of Univ of Otago Med. School, 1875-1939*, o/p, *Proceedings of Otago Med. School Research Soc.* (annual), 5s., Handbooks (dent., home sci., phys. educn.); *Bulletin* (technol.), *Guide to*

Portobello Aquarium, *Studies in the Univ. of Otago*, home sci. extension and adult educn. dept. *Bulletins* (appear irregularly); inaugural and other lectures; student publications—*Critic* (fortnightly); *Review* (annual), *Digest* (medical,

annual), *Science Record* (annual); *Dentago* (annual).

UNIV. OF OTAGO PRESS Founded 1958; publcs. include inaugural and other lectures.

THE YEAR 1960

PRINCIPAL BENEFACTIONS Ellen Laura Wilkison bequest for med. res, £12,000

MAJOR BUILDING DEVELOPMENTS Bldgs completed dent sch, home sci wing, women's hall of residence (to accomm 116)

RETIREMENTS C B Barrowclough (law), Canon W A. Curzon-Siggers (law), A. C. Stephens (law), Assoc Prof R P Wilson (ophthalmol)

RESIGNATIONS. Dr R. A. Barrell (French), apptd hd of dept, Monash, Dr G P Braae (econ), apptd sr lectr, Auckland, J P Cook (comm. law), to private practice, Dr J R E Dobson (psychiatry), apptd to Christchurch Hosp, M Joel (law), to private practice, Dr J. A. C. Macmillan (biochem), apptd biochemist, Children's Hosp, Melbourne, Assoc Prof G C. Schofield (anat), apptd to chair of anat, Monash; W W Watson (metall), apptd to post in industry

DEATHS Dr J Murray (sr lectr in chem)

Statistics

STUDENT NUMBERS, 1961

	Full-Time	Part-Time	External
Men	1468	590	160
Women	634	175	42
Total	2102	765	202*

* Inc 73 students receiving extra-mural tuition from Palmerston North Univ Coll. (see p. 704)

Distribution by Faculties Arts & music, 823; comm, 329, dent, 177, div., 18, home sci, 186; law, 137, med., 590; phys educn., 106; physiotherapy, 67, radiography, 10; sci (incl inter), 552, technol, 74. Total* 3069

Included in the figures above are —

Postgraduate students, 214

New admissions, 649

Students from other countries, 77 (Countries from which largest numbers came* Fed of Malays, 20, Fiji, 11, Indonesia, 7, Samoa, 7)

DEGREES AWARDED (by Univ of NZ) (1960)

Arts, BA, 58, MA, 15 Comm BCom, 7; MCom, 1 Dent BDS, 36, MDS, 2, DDS, 2. Div BD, 6 Engin BE, 5, ME, 1 Home sci., BHSc, 10 Law LLB, 9 Med BMed Sc, 11; MMedSc, 1; MB ChB, 100; ChM, 1, MD, 7 Music MusB, 2 Sci: BSc, 51, MSc, 16; PhD, 3 Total number of first degrees awarded, 295

DIPLOMAS AWARDED (1960) By Univ of NZ

DipEd, 2, DipHons, 3, DipMier, 3, DipMus, 1 By Univ of Otago. DDR, 1; DipHSc, 44, DipPhysEd, 20, AOSM, 4

CERTIFICATES AWARDED (1960) Stats, 3

[Information compiled as at 7/7/61]

VICTORIA UNIVERSITY OF WELLINGTON*

Founded 1897

Postal Address: P.O. Box 196, Wellington, C.1, New Zealand

Telephone: 46-046

VISITOR—THE MINISTER OF EDUCATION

CHANCELLOR—T. D. M. STOUT, CBE, DSO, ChM, FRCS

PRO-CHANCELLOR—P. P. LYNCH, CBE, Hon LLD N.U.I., BSc MD, FRACP

* Member of the Association of Universities of the British Commonwealth

NEW ZEALAND

VICE-CHANCELLOR—J. WILLIAMS, PhD Hon LLD *Camb*, LLM

REGISTRAR—L. O. DESBOROUGH, BCom

LIBRARIAN—H. G. MILLER, MA

TEACHING STAFF

[† = Part-Time]

Accountancy		Morgan, M. G., BA <i>Edin</i>	Lectr
Sidebotham, R., BA(Com) <i>Mane</i>	Prof	Longrigg, J., BA DipEd <i>Natal</i> , BLitt <i>Oxon</i>	
Rodger, W. G., OBE, JP, BCom, FPANZ,			Lectr
FIANZ, FCIS		Calvert, R. L., BA <i>Oxon</i>	Lectr
(Accounting III & Auditing) Sr	Lectr.		
Taylor, D. de P., BCom (Accounting) Sr	Lectr	Economics	
Burton, R. C. C., LLM (Comm. Law)	† Lectr	Holmes, F. W., MA	T. G. Macarthy Prof.
Donovan, E. A.	† Lectr	Gould, J. D., BA <i>Lond</i> , MA <i>Brist</i>	Sr Lectr
Douglas, I. H., MCom	† Lectr	Robson, P., MSc(Econ) <i>Lond</i> , MA <i>Camb</i>	
Gieig, L. M., LLB	† Lectr		Sr Lectr
Little, A. G., FPANZ	† Lectr	Sloan, D., MA <i>Edin</i> , BComSc <i>Belf</i> ,	
McCaw, P. M., BCom, FRANZ	Lectr	PhD <i>Natal</i>	Sr Lectr
Mathews, R. G., MCom	† Lectr	Baker, J. V. T., MA MCom	† Lectr
Oed, G. V., BCom	† Lectr	Vautier, C. P. W., MCom BA PhD	† Lectr
Stacey, J. S., MCom, FPANZ	† Lectr	Kuzmich, S., BSc	† Lectr
Steele, R. W., BCom, FPANZ	† Lectr		
Turner, T. A., JP, FRANZ	† Lectr	Education	
Müller, J. W., FRANZ	† Lectr	Bailey, C. L., MA DipEd	Prof
		Somerset, H. C. D., MA	Assoc. Prof
Asian Studies		Fieldhouse, A. E., PhD <i>Lond</i> ,	
Palmer, L. H., BSc(Econ) PhD <i>Lond</i>	Assoc. Prof	MA DipEd	Assoc. Prof.
Gupta, B. J., BA <i>Agra</i> , AM <i>Yale</i> ,		Stroobant, R. E., MA	Sr. Lectr.
PhD <i>Chic</i>	Lectr	McLaren, I. A., AM <i>Chic</i> , MA	Lectr.
		Ma'ta'i, Fanaafi, MA PhD <i>Lond</i>	Lectr.
		Williams, N., BA DipEd <i>Durh.</i>	Lectr.
Botany			
Gordon, H. D., BSc PhD <i>Edin</i>	Prof.	English Language and Literature	
Gibbs, J. G., PhD <i>Minn.</i> , MAg	Sr Lectr.	Gordon, I. A., MA PhD <i>Edin.</i> , LLD <i>Brist.</i>	Prof.
Johnson, H. W., MSc	Sr. Lectr	Stevens, Joan, MA <i>Oxon</i> & <i>N Z</i>	Assoc. Prof.
Dawson, J. W., MA	Lectr	Cochran, A. B., MA <i>Oxon</i> & <i>N Z</i>	Assoc. Prof
Taylor, Grace M., MSc	Jr. Lectr.	Bertram, J. M., MA <i>Oxon</i> & <i>N Z</i>	Sr Lectr
		McKenzie, D. F., PhD <i>Camb</i> , MA	Sr Lectr
Chemistry		Culliford, S. G., DSO, PhD <i>Lond</i> , MA	Hon Lectr
Slater, S. N., DPhil <i>Oxon</i> , MSc, FRIC	Prof.		
England, B. D., MSc PhD <i>Lond</i>	Sr. Lectr	Wright, J., MA	Lectr
Truscoe, R., MSc <i>Lond</i> , PhD <i>Warsaw</i>		Johnston, S. F. W., MA	Lectr.
		Orsman, H. W., MA	Lectr
Harvey, W. E., PhD <i>Camb</i> , MSc	Sr. Lectr.	Bowley, C. C., MA	Jr Lectr.
Wilson, A. T., PhD <i>Calif</i> , MSc	Sr Lectr.	Fowler, J., MA	Jr Lectr.
Daunt, W. E., MSc	Sr Lectr	Jones, Florence R., MA	Jr Lectr
Matheson, R. A., MSc PhD	Lectr.	Savage, R. T., MA <i>Camb</i>	Jr Lectr.
Curtis, N. F., MSc PhD	Lectr.	Waldron, P. J., MA	Jr Lectr.
Briggs, M. H., BSc <i>Liv</i> , MS <i>Corn</i>	Lectr.		
Segal, W., MSc PhD <i>Melb.</i>	Lectr	English Language Institute	
Ward, A. D., MSc	Lectr	Pittman, G., BA DipEd <i>W Aust</i>	Dir
Alet, Ivi R., MSc	Jr. Lectr.		
House, D. A., MSc	Jr. Lectr.		
		French, see Mod. Langs	
Classics			
Murray, H. A., MA <i>Aberd.</i> , BA <i>Camb.</i>	Prof.	Geography	
Kalfas, Denise D. H., MA <i>Syd</i> & <i>Oxon.</i>	Sr Lectr.	Buchanan, K. M., BA <i>Birm.</i>	Prof.
DipClassArchaeol <i>Oxon.</i>		McKenzie, D. W., MSc	Assoc. Prof.

Franklin, S. H., BCom *Burm.*
Watters, R. F., MA PhD
Wheeler, R. H., MA
Macnab, J. W., MSc *Lond*, BSc

Sr Lectr.
Sr Lectr.
Lectr
Lectr

Hoffmann, P., PhD *Vienna*, MA

(German) Lectr.

Gronwall, M. H., MA

Jr Lectr.

Duncan, Anne C., MA

Jr Lectr

Piper, Marion V., BA *Nott*, LL&L *Lyons*

Jr Lectr

Warren, P. R., MA

Jr Lectr

Geology

Clark, R. H., PhD *Edin.*, MSc, FGS

Prof.

Bradley, J., DipEd DSc *Durh.*

Sr. Lectr.

Wellman, H. W., DSc

• Sr. Lectr

Lauder, W. R., BE MSc

Lectr

Vella, P. F., MSc

Lectr.

German, see Mod. Langs.

History

Wood, F. L. W., MA *Oxon*, BA *Syd.*

Prof

Beaglehole, J. C., CMG, PhD *Lond*, MA

(Colonial H.) Res Fellow, Lectr

Munz, P., PhD *Camb*, MA

Assoc Prof

Oliver, W. H., DPhil *Oxon.*, MA

Sr. Lectr.

Boyd, Mrs Mary B., MA

Lectr.

Avery, Margaret E., MA *Lond.*

Lectr

Beaglehole, T. H., BA *Camb.*, MA

Lectr.

Miller, H. G., MA

Hon Lectr.

Italian, see Mod. Langs

Law, English and New Zealand

Campbell, I. D., LL.M

Prof

Inglis, B. D., BA LL.D JurDr *Chc*

Sr Lectr

Barton, G. P., PhD BA LL.M

Sr Lectr

Patterson, D. E., BA LL.B

Lectr

Birks, W. R., LL.M

† Lectr

Eichelbaum, J. T., LL.B

† Lectr

Kurtz, L. M., LL.B

Lectr

Cain, G., LL.M

Lectr

Comber, S. A., LL.B

Lectr

Hardie Boys, M., LL.B

Lectr

Law, Jurisprudence

Aikman, C. C., PhD *Lond.*, LL.M

Prof

Matheson, D. L., LL.B

Sr Lectr

Ferneyhough, C. J., LL.B

Jr Lectr

Mathematics

Campbell, J. T., PhD *Edin*, MA

Prof.

Seelye, C. J., PhD *Edin.*, MSc

Assoc. Prof

Burns, J. C., BA *Camb*, PhD *Manc*,

MSc

Sr Lectr

Patterson, D., MA MSc

Sr Lectr

Haivie, D. C., MSc

Sr Lectr.

Malcolm, W. G., MA

Lectr

Renner, R. M., MSc

Jr Lectr.

Erdos, J. A., MSc

Jr Lectr.

Gallagher, Pauline I., MA

Jr Lectr

Modern Languages

Norish, P. J., MA PhD *Camb.*

(French) Prof

Huntington, Frances M., MA

Sr Lectr

Carrad, D. B., MA *Oxon*

Sr Lectr

Sorani, A

(Italian) Sr Lectr

Danlow, N., PhD DrJur *Vienna*, MA

Sr. Lectr.

Music

Page, F. J., MusB

Prof

Lilburn, D. G.

Sr. Lectr

Farquhar, D., BA *Camb. & N.Z.*, MusB

Lectr.

Nielson, Margaret A., MA *Calif*, MusB

Jr Lectr.

Philosophy

Hughes, Rev. G. E., MA *Glas.*

Prof

Hudson, H., MA

Sr. Lectr

Londley, D. G., PhD *Melb*

Sr Lectr

Lloyd-Thomas, D. A., MA

Lectr

Physics

Walker, D., PhD *Burm*, MSc

Prof

Peddie, G. A., MA

Assoc. Prof

Bull, C. B. B., BSc PhD *Burm*

Sr. Lectr.

Hooton, D. J., PhD *Edin*, MSc

(Theoret. P) Sr. Lectr

Collings, E. W., MSc PhD

Lectr.

Humphrey, R. W., MSc

Lectr

Chapman, N. G., MSc PhD

Lectr

Gellen, J. W., MSc

Lectr

Political Science and Public Administration, School of

Scott, K. J., MA LL.B DPA

Prof

Assoc Prof

Brookes, R. H., BSc(Econ) *Lond*

Sr Lectr.

Roberts, J. L., LL.B DPA

(Pub Adm.) Sr. Lectr

Harrison, R. J., BSc(Econ) *Lond*, BA *De Pauw*

Lectr.

Robinson, A. D., MA

Lectr

...

Jr Lectr.

Psychology

Beaglehole, E., PhD DLat *Lond.*, MA,

FRSNZ

Prof.

Adcock, C. J., PhD *Lond*, MA

Sr. Lectr

Ritchie, J. E., BA

Lectr

Mangan, G. L., MA DipEd PhD

Lectr

Vaughan, G. M., MA

Jr Lectr

Russian, see Mod. Langs.

Social Science, School of

Munn, W. G., MA *Camb.*

Prof-in-Charge

McCreary, J. R., MA

Sr Lectr

Robb, J. H., MA BSc(Econ) PhD *Lond.*

Sr. Lectr

VandenBeig, Mrs Dorothy M., MA

Lectr

Thompson, A. W. S., MB ChB

† Lectr.

Taylor, N. R., LL.B

† Lectr.

Zoology and Biology

Richardson, L. R., PhD MSc *McG.* Prof.
 Fell, H. B., PhD *Edin.*, DSc Assoc. Prof.
 Salmon, J. T., DSc (Biol.) Assoc. Prof.
 Ralph, Patricia M., MSc Sr. Lectr.
 Garrick, J. A. F., MSc Lectr.
 Balham, R. W., MA PhD Lectr.
 Castle, P. H. J., MSc Jr. Lectr.

Easterbrook-Smith, W. H. B., BA

Haig, N. T., BA Tutor-Organizer
 Garrett, D., BA Tutor-Organizer
 Williams, A. T., BA Tutor-Organizer

Specialist Tutors

Martin, Nancy (Music)
 King, Nanoye M., DipHSc (Home Sci.)
 Laird, J. D. (Arts & Crafts)
 Brown, Mrs. Joan (Home Sci.)
 Parker, W. (Maori Adult Educn.)
 Atkinson, Jane M. (Music)

ADULT EDUCATION

Dakin, J. C., MA *Oxon.*, BA Dir.
 Cook, W. C., BA MCom Tutor-Organizer

ADMINISTRATIVE AND OTHER STAFF

Asst Registrars W. Summers, BCom,
 FRANZ, W. D. Dawson, MA, N. N. Rodley,
 BCom, B. J. Walsh, BSc; D. B. Leadbetter,
 MSc Asst to Vice-Chancellor S. G. Culliford,

DSO, PhD *Lond.*, MA DipEd. Liaison Officer
 with Post-primary Schs. R. Hogg, MA Phys.
 Educn. Instr. W. H. Landreth, Waide, Weir
 House. I. A. McLaren, AM *Chic.*, MA.

ASSOCIATED COLLEGE

PALMERSTON NORTH UNIVERSITY
 COLLEGE, P.O. Box 644, Palmerston North.
 Establd. 1960

Principal—K. W. Thomson, MA PhD *Wash.*

TEACHING STAFF EDUCN. A. Cooper, MA
 DipEd, P. S. Freyberg, MA DipEd DipJ,
 Lectrs ENGL. J. R. Tyne, MA *Oxon.*, Sr. Lectr.,

P. C. M. Alcock, MA DipJ, Lectr. GEOG.
 B. G. R. Saunders, BA *N. Staffs.*, DipEd *Adel.*,
 E. C. R. Warr, MSc(Econ) *Lond.*, Lectrs HIST.
 J. R. M. Owens, MA *Oxon.*, Lucie Halberstam,
 MA, Lectrs MATHS. G. U. Whitehead, MA
Camb., Lectr.

Margaret Hall, BA, Librarian A. C. Watts,
 Sec.

GENERAL INFORMATION (see also p. 683)

Victoria Univ. of Wellington was establd. in 1957 by an amendment act which reconstituted Victoria Univ. Coll. and declared the univ. to be a constituent instn. of the Univ. of N.Z. The former instn., Victoria Univ. Coll., was the last of the 4 main constituent colls. of the Univ. of N.Z. to be establd. It thus completed, apart from special provision for agric. teaching, the general structure of the country's instns. for univ. work. In 1887 Sir Robert Stout, then premier, introduced a bill to found a coll. serving the Wellington, Hawke's Bay and Taranaki districts. It was Stout's hope that the Wellington coll., being at the seat of govt. and of the court of appeal, might specialize in the teaching of law, pol. sci. and hist., as well as in some depts. of sci. The bill passed the house of representatives, but was shelved by the legislative council. A new ministry coming into office in 1888, the matter lapsed for 7 more yrs., in spite of the constant urgings of the univ. senate and court of convocation. In 1894 Stout again came forward with a 'Middle District of New Zealand Univ. Coll. Bill'—the Middle District now comprising not merely Wellington, Hawke's Bay and Taranaki, but Nelson, Marlborough and Westland as well. No provision could be made in a private member's bill for the expenditure of money and though the bill was

finally passed and the govt. even apptd. certain members of a coll. council, no further action was taken. The final step was taken by Mr Seddon, the premier, on his return from the diamond jubilee celebrations. His Victoria College Act, passed on Dec. 22, 1897, founded the coll. 'in commemoration of the 60th yr. of the reign of H.M. Queen Victoria'. It was to be a liberal foundation, bringing univ. educn. within the reach of the working classes. The coll. was affiliated to the Univ. of N.Z. in 1899. Endowed by govt. with 4000 acres. Coll. bldgs., towards which govt. gave £31,000, were opened in 1906, addnl. wings for library, etc., and for phys. erected 1921-22, new admin. and biol. blocks erected 1937-39; 3rd storey to biol. block completed in 1954. Six-storey sci. block completed in 1958.

The govt. approved of a grant to the univ. for the establishment in 1960 of a branch coll. at Palmerston North, a city some 95 miles N. of Wellington, where Massey Coll. is situated. This branch coll. is known as Palmerston North University College (for staff, see 'Associated College', above) and in its 1st yr. it offered to internal students-instrum. at stage I in the subsjs. educn., Engl., hist., geog. and maths. Addnl. subsjs. will be available in succeeding yrs. A dept.

of extra-mural studies will provide tuition to external students throughout New Zealand in a restricted number of subjects

CONSTITUTION The council, the governing body of the Univ, consists of the vice-chancellor (*ex officio*) and 17 other members apptd. or elected as follows: 2 by the governor-in-council, 4 by the court of convocation, 2 by the professorial bd., 1 by the teaching staff, 1 by the Wellington city council, 2 by members of educn. bds., 1 by governing bodies of secondary schs., 2 by teachers in primary schs., 1 by teachers in secondary and day technical schs., 1 by the executive of the students' assocn

INCOME (1960) Total income, £464,265 (govt grant, £418,957; student fees, £44,308, other sources, £100)

FACULTIES AND DEANS *Arts*, Prof I. A. Gordon (Engl.), *comm.*, Prof F. W. Holmes (econ.), *law*, Prof I. D. Campbell, *sci*, Prof H. D. Gordon (bot)

LIBRARY Approx. 107,108 vols Available to staff, students, grads. and others by arrangement at nominal fee N.Z. Royal Soc lib also housed in Univ bldg and available to staff and students

LABORATORIES Bot., chem., educn., geog., geol., phys., psychol., zool

ENTRANCE REQUIREMENTS As prescribed by Univ of N.Z., see p. 683.

FIRST DEGREES (of Univ of N.Z.) BA, BSc, 3 yrs., BCom, LLB, MusB, 4 yrs Also 1st yr of degree courses in agric, dent, engin, home sci, med

HIGHER DEGREES (of Univ of N.Z.) MA, MSc, MCom, LL.M., 1 or 2 yrs., PhD, 2 yrs

DIPLOMAS *Univ. of N.Z. educn.*, 1 yr postgrad or 2 yrs undergrad., banking, music, 3 yrs *Univ of Wellington. pub. admin., soc. sci.*, 2 yrs.

FEES *Arts* (3 yrs.), about £55 (MA, £9 9s addnl); *sci* (3-4 yrs.), about £70 (MSc, £12 12s. addnl), *law* (4-5 yrs.), about £85, *comm* (4 yrs.), about £60 Exact fees vary in accordance with subs. chosen. Dipls in pub admin and soc sci, each £10. 10s p a

ADULT EDUCATION. Adult educn has been provided for since 1915, when the WEA, then at the outset of its work in N.Z., establd 3 tutorial classes in Wellington In 1945 the Adult Education Act was passed, which set up a natnl. council and 4 regional councils Regular classes and discussion groups are now arranged throughout the Middle District (1957: 364 classes or groups in 98 different communities)

RESEARCH SCHOLARSHIPS (2) Univ res scholps of £450 p a. for 2 yrs Sr Jacob scholps for full-time postgrad res., value and duration determined by the council in each case

RESIDENCE War House, Salamanca Rd., Kelburn, accomm for about 99 men students. Fees, approx £5 per wk Warden I. A. McLaren

PUBLICATIONS *Calendar*, 38 (Dec.); *Spike* (students' magazine), normally publ towards end of each session, *The Middle District*, a publicn issued to graduates.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS *Bldgs completed.* student union bldg., extension to admin bldg

NEW CHAIR. Accountancy

RETIREMENTS Kate H Stocker (drama adult educn)

RESIGNATIONS. Prof. P. M. Conlon (mod langs), apptd to overseas post, A. S. Carrington (accty), apptd prof of accty, Canterbury, J. W. Rowe (econ), apptd econ advisor to Assoc Banks, N.Z., K. L. McKay (classics), apptd sr lectr., A. N. U.; Lenore Harty (Engl.), apptd lectr., Otago, Dr R. G. Stone (mod langs), apptd sr lectr., Otago

DEATHS D. M. Anderson (lectr in Engl., Palmerston North Univ Coll.)

Statistics

STUDENT NUMBERS, 1961

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1012	1620
Women	445	368
Total	1457	1988

Distribution by Faculties *Arts*, 1332, *comm.*, 899, *law*, 340; *pub. admin.*, 10; *sci*, 847, *soc sci*, 17. Total. 3445

Included in the figures above are—

Postgraduate students, 239

New admissions, 858

Students from other countries, 116 (Countries from which largest numbers came Fiji, 26, Vietnam, 21, N. Borneo, 12, Sarawak, 12, Samoa, 9, Singapore, 9)

DEGREES AWARDED (by Univ of N.Z.) (1960) *Arts*: BA, 123; MA, 32 *Comm*: BCom, 30, MCom, 3 *Law*: LLB, 42. *Mus*: MusB, 5 *Sci*: BSc, 69, BSc (hons), 5, MSc, 29 Total number of first degrees awarded, 269.

DIPLOMAS AWARDED (1960) *By Univ of N.Z.* DipEd, 10, DipBank, 6; DipMus, 4. *By Victoria Univ of Wellington* DipSocSci, 10, DipPubAdmin, 6

LINCOLN COLLEGE*

Founded 1873

Postal Address: Lincoln College, New Zealand

Telephone: Christchurch 625839

VISITOR—THE MINISTER OF EDUCATION

CHAIRMAN OF BOARD OF GOVERNORS—T D J HOLDERNESS

PRINCIPAL—M M BURNS, CBE, MSc PhD *Aberd*, FNZIC

VICE-PRINCIPAL—I E. COOP, DPhil *Oxon*, MSc, FNZIC

REGISTRAR AND TREASURER—H G HUNT, BCom, FCIS

LIBRARIAN—J A FRAMPTON, BA *Brist*

TEACHING AND RESEARCH STAFF

[†=Part-Time]

Agricultural Economics

Philpott, B P, MCom MA *Leeds* Prof.
Ward, J. T., BLitt *Oxon*, BSc(Econ) Sr Lectr
DipAg(Econ) PhD *Lond*

Agricultural Engineering

Riddolls, A W., BE BSc Reader, Hd. of Dept.
Lindsay, G G., BSc(Agr) *R'dg* Lectr
Baird, W C Sr Instr
King, D L Sr Instr
Pierson, R A Technician
Milne, M. R. W Res Technician

Agricultural Law

Wills, E P, BA LL.M MCom †Lectr

Agricultural Microbiology

Blair, I. D., PhD *Lond.*, MAgrSc Reader, Hd. of Dept
Mulcock, A P, MSc PhD Sr Lectr
Fenwick, Phillipa, BSc Res Officer
Res. Officer

Agricultural Zoology

Harrison, R. A., DSc St. Lectr
Williams, G R., BSc *Syd* Lectr
Pottinger, R. P., BSc BAgrSc Asst Lectr

Animal Husbandry

Coop, I E, DPhil *Oxon.*, MSc, FNZIC Prof
Stevens, P G, DipAg *C.A.C.* Sr. Lectr.
Hart, D. S., MA *Camb.* Sr. Lectr
Hollard, M G, MAgrSc Sr Lectr.
Clark, V R Tech Officer

Farm Management and Rural Valuation

Flay, A. H., DipAg *C.A.C.*, BSc MAgrSc Assoc Prof
Garrett, H. E., BLitt *Oxon.*, BA MAgrSc Reader
Cooke, M B, CertAgr DipAg *C.A.C.* St Lectr
Stewart, J D, DipVFM *C.A.C.*, MA (on leave) Lectr
Rydc, B J P, DipVFM *C.A.C.* Lectr
Oldfield, J H., DipVFM DipAg *C.A.C.* Field Officer
Ower, D. K., DipAg *M.A.C.*, DipVFM *C.A.C.* Field Officer
Guise, J. W B, DipAg DipVFM *C.A.C.* Field Officer
Don, A J, DipVFM *C.A.C.* Field Officer
Mason, G, MAgrSc Res Officer

Horticulture

Glazebrook, J H., BSc(Hort) *R'dg* Sr. Lectr
Challenger, S, BSc(Hort) *R'dg* Lectr
Cradock, S A., DipHort *C.A.C.* Instr

Plant Science

Langer, R. H. M., BSc(Agric) BSc PhD *Durh.* (Plant Sci) Prof
Iversen, C E, DipAg *C.A.C.*, MAgrSc Reader
Morrison, T M., MSc PhD (on leave) Sr Lectr
White, J G H, MAgrSc Lectr
Wright, G M, MSc †Lectr
Daly, G T, BAgrSc Asst Lectr

Rural Education

McArthur, A. T G, BSc *Lond*, MAgrSc Sr. Lectr

* Associate Member of the Association of Universities of the British Commonwealth

McSweeney, D. B., MA DipAg C.A.C. Lectr.
Blackmore, R. C. Visual Aids Officer

Veterinary Science

McLean, J. W., BVSc Syd, PhD Calif, MAgrSc Assoc Prof.
Thomson, G. G., BSc(VetSc) Edin. Sr. Lectr.
Hopkirk, C. S. M., DVSc Melb †Res Officer

Soil Science

Walker, T. W., DIC, ARCS, PhD

DSc Lond, FNZIC

Adams, A. F. R., MSc

Elphick, B. L., BSc Lond.

Edmunds, A. R., BSc

Campbell, A. S., MSc

Horn, A. H., MSc

Prof

* Sr. Lectr

Lectr

(Phys) Lectr

(Chem) Lectr

Officer i/c Chem Services

Wool

Henderson, A. E., PhD Lond, BAgSc

Reader, Hd. of Dept

Simpson, J. C

Burridge, P. C

Fraser, I. E. B., BSc PhD Leeds

Parsons, Gilian, BSc

Instr.

† Instr

Res Officer

Wool Metrologist

ADMINISTRATIVE AND OTHER STAFF

Accountant E. R. Noonan. Warden J. D. Mackay, MBE, BA BSc

GENERAL INFORMATION (see also p 683)

In 1872 the provincial council of Canterbury set aside certain lands for the endowment of higher educn., incl provision for a sch. of agric. Land suitable for the activities of such a sch was bought at Lincoln in 1877 by the Canterbury Coll. bd., which was administering the endowments, and Lincoln Agric. Coll. was opened in 1880. By the Canterbury Agric. Coll. Act, 1896, control of Lincoln Agric. Coll. was removed from the Canterbury Coll. bd. and vested in a separate bd. of governors, the coll. thenceforth being known as Canterbury Agric. Coll. In 1913 a univ. degree in agric. was instituted and the coll. was recog. as a sch. of agric. by the Univ. of New Zealand. A series of amending acts was passed between 1922 and 1927, and by legislation passed in the latter yr. the coll. became a coll. of the univ. The coll. is situated nr the township of Lincoln, about 13 mls south-west of Christchurch, South Island.

CONSTITUTION. The Canterbury Agric. Coll. Act, 1930, with subsequent amendments, constitutes the present authority of the coll. It is governed by a bd. of governors consisting of the principal and 15 members elected as follows: 1 by governor-general of N.Z., 3 by Canterbury members of the House of Representatives, 2 by council of Univ. of Canterbury, 1 by Council of Univ. of Otago, 1 by South Island agric. and pastoral assocns., 3 by South Island federated farmers of N.Z., 3 by grads., 1 by staff.

INCOME (1960). £304,429 (grant, 51 per cent; fees and donations, 3 per cent; endowments, 1 per cent; trading, 45 per cent).

LIBRARY 10,000 vols. Subscribes to 300 journals.

LABORATORIES, ETC. Normal range of bldgs. to provide teaching & res. facilities in agric. econ., agric. engin., farm management & valn., hort., plant & animal scis., soil, vet. sci. and wool res.

The COLLEGE FARMS comprise approx 2228 acres, 1350 acres being situated at the coll. and 878 acres 8 mls distant at Ashley Dene farm. Special facilities are available for sheep and plant res. on a field scale. Full facilities are available for teaching hort.

The CROP RESEARCH AND BOTANY DIVISIONS (D.S.I.R.), which are the main centres in N.Z. for plant breeding and bot. study, are sited contiguous to the coll. Both these instns., together with other sub-stns. of D.S.I.R. associated with them, co-operate with the coll. in the provision of material for teaching and res.

The TUSsock GRASSLANDS AND MOUNTAIN LANDS INST., estab'd at the coll. under a separate cttee. of management, is responsible for the investigation of various aspects of management of the tussock grasslands of New Zealand and the development of techniques to bring about the more protective and stabilizing cover of vegetation and soil conservation. It also facilitates co-ordination of res. and the dissemination of information.

RESEARCH. Investigations are proceeding in soil sci., the various major fields of plant sci. and animal sci., agric. econ., farm management & valn., and agric. engin. Facilities are available for postgrad. study and res. in these fields.

ADMISSION. See p. 683. Overseas students desiring to be admitted *ad eundem statum* to any of the degree courses at the coll. should supply full details of the undergrad. or grad. course already taken. Subsequently, formal applicn. must be made to the registrar of the Univ. of N.Z. Non-members of the univ. may be admitted to the dipl. courses, details of pre-requisite qualifs. being obtainable from the coll. registrar.

FIRST DEGREES (of Univ. of N.Z.) BAgR, BAgR(Hort)—3 yrs; BAgRSc, BAgRSc(Hort)—4 yrs.

HIGHER DEGREES (of Univ. of N Z.) MAgrSc, MAgrSc(Hort)—normally 1 yr following the BAgrSc course, PhD—a 2-yr full-time course open to candidates who have been admitted to a master's degree of Univ. of N Z (either by exam or by admission *ad eundem statum*) at the standard of 1st or 2nd class hon.

UNIVERSITY CERTIFICATE OF PROFICIENCY Any matriculated person may take a course in any one or more subjects of the degree courses for Univ. of N Z cert of proficiency in that subject or subjects

COLLEGE DIPLOMAS Valuation & farm management, agric engin.—advanced courses of 1 yr which must be taken after appropriate pre-requisite courses, agric, hort.—2-yr courses together with addnl practical experience Wool-classing—1 session.

COLLEGE CERTIFICATE in wool-classing

OTHER COURSES Intensive general course in agric—1 yr after 3 yrs' practical experience, sp courses for 3rd-yr tlg coll students in agric and for soil conservators, various short courses in agric. and hort subjects

FEES Tuition fees PhD, £21, master's degrees, £12:10s, bachelor's degrees, dipl courses and intensive course in agric, £22:10s, wool-classing course, £12, short courses, £1 per wk

ACADEMIC YEAR March to Nov.. 3 terms of 9, 10 and 12 wks.

STUDENT RESIDENCES Accommod for approx 300 men and women students in 3 residential halls Fees £4 18s. 6d per wk

STUDENTS' ASSOCIATION The assocn caters for the athletic and social side of the student's life Normal facilities available for sport

PUBLICATIONS *Calendar* (5s), *Rural Educn Bulletin* (5s p a for 10 monthly copies), *Annual Review* (7s 6d), *Chamber of Commerce Bulletin* (10s p a), *Lincoln Coll Farmers' Conference Proceedings* (7s 6d), *Life and Work at Canterbury Agric Coll* (the first 75 yrs of the agric. coll at Lincoln), compiled by I D Blair (Caxton Press, Christchurch, 1956)

THE YEAR 1960

RETIREMENTS L Morrison (agric zool.), P G Stevens (animal husb), C J Morse (farm management)

RESIGNATIONS H J Walker (accountant), on election to parliament

Statistics

STUDENT NUMBERS, 1961
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	338	306
Women	8	66
Total	346	372

Distribution by Faculties Agric, 672, hort, 46 Total 718.

Included in the figures above are .—

Postgraduate students, 21.

New admissions, 167.

Students from other countries, 49 (Countries from which largest numbers came Australia, 27, Fed of Malaya, 8)

DEGREES AWARDED (by Univ. of N Z) (1960) BAgr, 2, BAgrSc, 7, MAgrSc, 1, MAgrSc (Hort), 2 Total number of first degrees awarded, 9

DIPLOMAS AWARDED (1960) DipVFM, 27, DipAgEng, 2, DipAg, 42, DipHort, 5

CERTIFICATES AWARDED (1960) Wool-classing, 20

[Information compiled as at 11/7/61]

MASSEY COLLEGE*

Founded 1926

Postal Address . Massey College P.O., Palmerston North, New Zealand

Cables and Telegrams Massey College, New Zealand

Telephone : Palmerston North 7940

VISITOR—THE MINISTER OF EDUCATION

CHAIRMAN OF COUNCIL—E D. HOLT, JP

* Associate Member of the Association of Universities of the British Commonwealth

PRINCIPAL—A. STEWART, DPhil *Oxon.*, MAgrSc

REGISTRAR—A. J. WEIR, JP, BSc

LIBRARIAN—MARY G. CAMPBELL, MA *Edn.*

TEACHING AND RESEARCH STAFF

[* = Joint member of the staffs of the College and Dairy Research Institute, † = Part-Time]

Agricultural Biochemistry

Hawke, J. C., PhD *Camb*, BSc
 Sr Lectr, Hd. of Dept.
 Richards, E. L., PhD *Brist*, MSc Sr Lectr
 Brooks, R. R., BSc *Brist*, PhD *Cape T* Lectr
 Grimmer, M. R., MSc Jr Lectr

Wallace, G. M., BSc, FNZIC Sr Lectr
 Harkness, W. L., DipDy *M A C* Lectr*
 Le Heron, B. S., DipDy *M A C* Lectr*
 Quinn, Sybil E Demr

Horticulture

Agricultural Botany
 Yeates, J. S., PhD *Camb* & *N Z*, MSc
 Sr Lectr, Hd. of Dept.
 Campbell, Ella O., MA Sr Lectr
 Eslet, A. E., MAgrSc Lectr
 Calder, D. M., MSc (on leave) Jr Lectr
 Skipworth, J. P., MSc Jr Lectr

Hockey, K. C. Sr Lectr, Hd. of Dept.
 Richards, M., BSc(Hort) *Nott* Sr Lectr.
 Fisher, K. J., BAgrSc(Hort) Jr Lectr

Microbiology

Sargent, J. D., MSc Sr Lectr, Hd. of Dept.
 Wenham, H. T., MS *Wis*, MSc Sr Lectr
 Cox, G. A., MSc Lectr*

Agricultural Economics and Farm Management

Candler, W. V., PhD *Iowa*, MAgrSc
 Walter Buchanan Prof
 Hodgson, J. N., BAgrSc Sr Lectr
 Watson, N., DipAg DipVFM *C A C* Sr Lectr
 MacGillivray, P. A., BAgrSc Lectr
 Sargent, E. D., BSc(Agric) *Durh* Lectr
 Gilliland, H. Y., LLB † Lectr
 Salter, R. D., BA BCom † Lectr
 Thompson, S., BCom † Lectr

Physics and Engineering

McGregor, A. A. D., BE MSc
 Sr Lectr, Hd. of Dept.
 Hodgson, E. R., MSc Sr Lectr
 Dickson, A. J. Lectr
 McKay, I. R. Insti
 Rickard, K. J. Instr.

Plant Science

Jacques, W. A., BSc *Wales* Prof
 Sr Lectr, Actg Hd. of Dept.
 Cross, M. W. Sr Lectr
 Robinson, G. S., MAgrSc Sr Lectr
 Schwass, R. H., MAgrSc Sr Lectr.
 Webb, B. H., BAgrSc Jr Lectr

Agricultural Engineering, see Phys and Engin**Agricultural Extension**

Hughes, A. H., MS *Wis*, MAgrSc Lectr

Agricultural Zoology

Tetley, J. H., DSc MAgrSc
 Assoc Prof, Hd. of Dept.
 Gurr, L., MSc Sr Lectr
 Boshier, D. P., MSc Lectr
 Dale, P. S., MSc Lectr

Poultry Husbandry

Kissling, J. H. Lectr, Manager

Sheep Husbandry

Rae, A. L., PhD *Iowa*, MAgrSc Prof
 Barton, R. A., DipAg *M A C* Sr Lectr.
 Small, E. Sr Lectr
 Ch'ang, T. S., MAgrSc Lectr
 Cockrem, F. R., MA *Camb*, PhD Res Officer

Soil Science

Fife, C. V., MSc Sr Lectr., Hd. of Dept.
 Jacks, H., PhD *Lond*, MAgrSc Sr Lectr.
 Pollok, J. A., MS *Minn*, BAgrSc Lectr.
 Bowler, D. G., DipAg *M A C*
 Drainage Advisory Officer

Dairy Husbandry

Campbell, I. L., PhD *Missouri*, BAgrSc Prof
 Flux, D. S., PhD *R'dg*, MAgrSc Sr Lectr
 Dunkin, A. C., MSc(Agric) *Lond* Sr Lectr
 Davey, A. W. F., BAgrSc Lectr
 Munford, R. E., MAgrSc (on leave) Lectr
 Wilson, G., BAgrSc Temp Jr Lectr.

Food Technology

Scott, J. K., BE Logan Campbell Prof.
 Ward, J. W. Sr Lectr
 Singleton, J. A., BSc BAgrSc Sr Lectr*
 Henson, J. H., BAgrSc Sr Lectr.

Veterinary Pathology and Animal Physiology

		Hd. of Dept
Newhook, J C	Sr Lectr, Actg	Hd. of Dept
Reynolds, B A	Lectr	Lectr

Wool

Meek, T A, DipWool M A C	Hd of Dept
Shadwell, A, DipWool M A C	Instr
Corrigan, M K, DipWool M A C	Asst. Instr
Gunn, R A, DipWool M A C	Asst Instr

ADMINISTRATIVE AND OTHER STAFF

Asst Registrar (Finance) R L McEwen,
BCom Sheep Farm Supervisor. W R R

Hewitt Dairy Farm Supervisor I P M
McQueen, BSc(Agric) Lond.

GENERAL INFORMATION (see also p 683)

The college (named in honour of the Rt. Hon. W. F. Massey, prime minister of N.Z., 1912-25) was established under the New Zealand Agricultural College Act in Sept 1926 as the result of an agreement between Victoria Univ Coll., Wellington, and Auckland Univ. Coll. to amalgamate their respective schools of agric and to establish the new coll. in the Palmerston North-Marton area. On July 29, 1927, an amending statute, the Massey Agricultural College Act, was passed, and the coll established with that title. A further amending and consolidating act, the Massey Agricultural College Act, 1952, was subsequently passed.

CONSTITUTION. The coll. is governed by a council consisting of the principal and 11 members elected as follows: 3 by the governor-general, 1 by council of the Univ of Auckland, 1 by council of Victoria Univ of Wellington, 1 by Palmerston North city council, 2 by grads, 1 by holders of dipls., 2 by profs and lectrs.

INCOME (1959) Approx £159,000, excluding hostels, farm and trading activities (govt. grants, 80.6 per cent; fees, 6.2 per cent; endowments, interest and rents, 3.7 per cent; res. grants, 8.9 per cent; misc, 0.6 per cent).

LIBRARY 20,200 vols, 320 periodicals

LABORATORIES, FIELD STATIONS, ETC. Main sci bldg. contains lecture rooms, teaching and res labs, library, assembly hall, studies, common rooms, etc. Lecture rooms and studies for econ, hort and sheep husb depts. are situated in an adjacent bldg. A vet clinic comprising lecture room, labs., X-ray room, operating theatre and studies, houses vet dept. Other bldgs for wool teaching, engin. and carpentry instruction, stock demonstration, machinery demonstration.

The COLLEGE FARMS comprise some 4100 acres, 1250 acres being situated at the coll., 1050 acres 8 miles distant and 1800 acres 60 miles distant. Full facilities are available for teaching hort

ADMISSION See p 683. Overseas students desiring to be admitted *ad eundem* status to any of the degree courses at Massey Agric. Coll. should supply full details of the undergrad or grad course already taken. Subsequently, formal applicn. must be made to the registrar of the Univ

of N.Z. For other than degree courses, no exam qualif. is required, but certain pre-course practical experience is called for.

FIRST DEGREES (of Univ of N.Z.) BAgr, BAggr (Hort)—3 yrs. BAggrSc, BAggrSc(Hort), BFood Tech—4 yrs

HIGHER DEGREES (of Univ of N.Z.) MAggrSc, MAggrSc(Hort), MAggrSc(DairyTech), MFood Tech—normally 1 yr following the BAggrSc course but in some cases, especially overseas students, 2 yrs are required. PhD—a 2-yr full-time course open to candidates who have been admitted to a master's degree of Univ of N.Z. (either by exam or by admission *ad eundem* status) at the standard of 1st or 1st class honours.

COLLEGE DIPLOMAS Dairy engin., dairy farming, hort, sheep farming, 1 yr; dairying (buttermaking, cheesemaking or market milk), 3 winter terms, wool and wool-classing, 2 yrs.

UNIV CERT OF PROFICIENCY Any matriculated person may take a course in any one or more subjects of the degree courses for Univ of N.Z. cert of proficiency in that subject or subjects.

COLLEGE CERTIFICATES Poultry farming, 1 yr

OTHER COURSES Various short courses available

RESEARCH. Facilities available for postgrad. study or res in most branches of agric.

FEES. PhD, £21; master's degrees, £12 10s; bachelor's degrees, £22 10s. p.a., dipl in sheep farming and dairy farming, £22 10s. p.a., dipl in hort, £22 10s. p.a., dipl in wool-classing, £12 10s p.a., dipl in dairying, £10 p.a.

ACADEMIC YEAR Feb to Oct two terms of 11 wks each, one of 7 wks

The DAIRY RESEARCH INSTITUTE AND THE GRASSLANDS DIVISION & PLANT CHEMISTRY LAB (D S I R), which are the centres for N.Z. for dairy and grasslands res respectively, are located at the coll. These institutions co-operate with the coll. in the provision of material for teaching and for postgrad res.

STUDENT RESIDENCES Three men's hostels accommodating 300. One women's hostel accommodating 25. Fees, per week, men—£4 2s 6d

Postal address Massey Coll P O, Palmerston North

STUDENTS' ASSOCIATION The assocn. caters for the athletic and social side of the student's life. Excellent facilities available for cricket, tennis, swimming, athletics, hockey, shooting, football, etc

PUBLICATIONS. *Calendar* (Feb), free *Post-grad Courses and Facilities for Res*, free *Sheep Farming Annual* (12s 6d) and *Dairy Farming Annual* (10s) (proceedings of annual meetings of sheep farmers and dairy farmers held at the coll), (Oct-Dec) Also a series of technical publications

THE YEAR 1960

NEW DEPARTMENTS By merger of agric. econ and farm management & valuation depts agric econ & farm management, by splitting soils & field husbandry dept plant sci, soil sci

NEW CHAIRS Plant sci, Walter Clark Buchanan chair of agric econ & farm management, Logan Campbell chair of food technol

RETIREMENTS Prof A. W. Hudson (soils & field husbandry)

RESIGNATIONS Dr H B Low (agric econ), apptd to Econ & Monetary Council, Dr E Z Arlidge (soils), apptd to soil bureau, D S I R

Statistics

STUDENT NUMBERS, 1961
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men .	527	2
Women .	13	4
Total .	540	6

Included in the figures above are —

Postgraduate students, 25

New admissions, 221

Students from other countries, 80 (Countries from which largest numbers came Australia, 22, India, 18, Fed of Malaya, 10)

DEGREES AWARDED (by Univ of NZ) (1960)
BAgr, 4, BAgrSc, 14, BAgrSc(DairyTech), 1,
BAgrSc(Hort), 1, MAgrSc, 3 *Total number of first degrees awarded, 20*

DIPLOMAS AWARDED (1960) DipAg, 56,
DipHort, 10, DipDy, 18, DipWool, 18.

NIGERIA

University College, Ibadan (p. 717)

University of Ife (p. 724)

University of Nigeria (p. 725)

UNIVERSITY INSTITUTIONS IN NIGERIA

[Specially contributed for this edition by Sir Alexander Carr-Saunders,
formerly Director of the London School of Economics]

The first institution of university rank to be established in Nigeria was University College, Ibadan, founded in 1948 when teaching began, and it is proposed that the college should become a university in 1962. When the college was founded the constitution of Nigeria was unitary, and the college was created by the central government. Under the present constitution there is the federation of Nigeria comprising three constituent regions, north, east and west, higher education is on the concurrent legislative list, and it is therefore open to the federal government and the regional governments alike to create universities. The position of the single pre-existing university institution had to be defined under the constitution and it was scheduled as a federal responsibility. The legislature of the eastern region, making use of its powers under the constitution, created the University of Nigeria in 1955, this university is situated at Nsukka, and teaching began in 1960. These are the only two institutions of university status now open in Nigeria, but a large expansion of universities is planned. The Commission on Post-School Certificate and Higher Education in Nigeria (called the Ashby commission after its chairman, Sir Eric Ashby) reported in 1960 and recommended the foundation of two more universities, one in federal territory at Lagos and one in the northern region at Zaria. Following these recommendations the federal government is taking active steps to found a university in Lagos while the legislature of the northern region has set up a provisional council for the University of the Northern Region. Furthermore it has been decided by the government of the western region to found a university at Ife. Thus, in addition to University College, Ibadan (soon to become the University of Ibadan), a federal responsibility though in the western region, and the University of Nigeria, a creation of the eastern region, there will presently be another federal university, that of Lagos in federal territory, and two more regional universities, one created by the northern region and one by the western region.

In 1961 the federal government issued a sessional paper which contemplated a total enrolment of 10,000 students in all Nigerian universities by 1970. The paper stated that 'universities should have autonomy in the management of their affairs' and that 'the overall national interest' would be preserved by the statutory establishment of (1) the National Universities Commission, (2) the Inter-Regional Man-Power Board and (3) the All-

Nigeria Academic Council. The first of these bodies will make plans for the balanced development of universities, will examine the financial needs of the universities, will receive block grants from the federal government and will allocate such grants to the universities in accordance with need. The second body will survey periodically the nation's man-power needs and will formulate programmes for man-power development through university expansion. The third body, whose membership will be drawn from the academic staff of the universities, is 'designed to ensure the maintenance of the highest academic standards'. These proposals thus foreshadow a system under which there will be federal universities, created or taken over by the federal government and wholly financed by it, and universities created by regional governments which will be eligible for financial assistance from the federal government through the National Universities Commission. The sessional paper states that 'the total capital expenditure for the period 1961-1970 is likely to be of the order of £75 million and the total recurrent cost in 1970 of the same order'.

CONSTITUTION The University of Nigeria is governed by a provisional council, its definitive constitution has not yet been announced. The supreme governing body of University College, Ibadan, is the council, consisting of 24 members of whom seven are members of the academic staff, of the remainder six are nominated by the regions, two by each region, three by the governor-general, two by the Inter-University Council for Higher Education Overseas, one by the visitor and three co-opted, together with the chancellor and the chairman. There is a senate consisting of all the professors and certain other members of the academic staff, it is laid down that the senate 'shall manage the educational affairs of the college and act for the college in all academic matters'. The constitution is modelled on the pattern of those found in the English civic universities, and as in these universities academic matters are under the effective control of the academic staff. When the college becomes a university the constitution will need revision, but the revision needed is slight since, except for the lack of power to grant degrees, the college has all the attributes of a university. In the session 1959-60 the income of the college amounted to a little more than £1 million, of this sum rather more than £175,000 was derived from fees, nearly all the remainder coming from the federal government in the form

of a block grant the amount of which is announced for a period of years. The University of Nigeria is supported by a fund derived from the Eastern Region Marketing Board and amounting to £2,500,000 at the end of 1959.

PRE-UNIVERSITY EDUCATION The school system is organized on the English pattern of primary and secondary schools. Taking the country as a whole a large proportion of the children enter primary schools, but in some areas the proportion of pupils who complete primary education is small, thus in the northern region only about one in eleven of children of school age is at school. Secondary schools are far less well developed. The Ashby commission found that there were about 650,000 pupils in the first year of primary school but only about 12,300 in the first year of secondary school, moreover there were only 553 pupils in the whole country doing sixth form work in schools. Thus the foundation provided by the secondary schools, on which higher education rests, is slender, but so great is the enthusiasm for education that thousands of Nigerians, after preparation gained outside schools, enter each year for the General Certificate of Education. Over 1000 Nigerians with normal entrance requirements applied for places in University College, Ibadan, in 1959, but there were places for only about 300 of them.

ADMISSION The minimum entrance qualifications normally demanded by University College, Ibadan, and by the University of Nigeria are equivalent to those demanded by the University of London, both institutions admit at a lower level a small number of students who, through no fault of their own, have been unable to prepare for the G.C.E. examination, but entry at this lower or concessional level will not be permitted by the college after the session 1960-61. Fully qualified applicants have no right of entry to either institution, selection is made from among qualified applicants. Registration for higher degrees at the college is open only to members of the academic staff and to those with first London degrees, this restriction will come to an end as soon as it becomes a university and awards its own degrees.

DEGREE COURSES At present all students of the University of Nigeria are working for a pass degree in arts, the full syllabus has not yet been announced. It is proposed shortly to offer degrees in science and in certain professional subjects. University College, Ibadan, is in special relationship with the University of London. Students work for degrees of that university, the university permits extensive modification of the London syllabuses to suit local needs and conditions, but the standard of London degrees is maintained. Members of the staff of the college co-operate with London examiners in setting the papers and marking the scripts, but the final adjudication rests with the London examiners. Courses for the BA are offered leading to a pass degree and to honours degrees in classics, English, geography,

Greek, history, Latin and mathematics, in the faculty of science there are courses for the BSc leading to an honours (general) degree in science, and to honours degrees in botany, chemistry, geography, mathematics, physics and zoology. Degree courses are also offered in agriculture (BSc(Agric)), divinity (BD), economics (BSc(Econ)) and medicine (MB BS). The course in medicine lasts for five years, all other degree courses take three years. The college offers in addition courses leading to a postgraduate certificate (1 year) and a diploma (1 year) in education, and to diplomas in child study (18 months) and librarianship (2 years).

STAFF The grading of the academic staff of the college follows British practice—professors, senior lecturers, lecturers and assistant lecturers. Vacancies are normally advertised. Salaries are kept generally in line with those obtaining in Great Britain. There is annual home leave and provision for study leave. Teaching methods resemble those in English civic universities, the time available for research is no less than that which falls to the staff of those universities. In 1960 there were 205 members of the teaching staff of the college of whom 57 were locally born, 118 came from the United Kingdom, 23 from the rest of the Commonwealth and 7 from elsewhere. The proportion which locally born members of the staff form of the whole staff has been increasing year by year.

STUDENTS In 1960 there were 255 students at the University of Nigeria, the number is expected to rise sharply in the session 1961-62. In the same year there were 1255 students at the college, with the opening of new halls of residence the number is expected to reach 1800 in the session 1961-62. At both institutions all students are full-time and all live in halls of residence. All undergraduate members of the college are required to join the students' union under whose auspices social, cultural and athletic activities are organized, a building for the union was opened in 1960. There is a comprehensive medical service, employing two full-time medical officers, nurses and other ancillary staff, under which students obtain treatment free of charge. There are college scholarships, state scholarships and donor scholarships; there are also awards made by the federal and regional governments. It is estimated that well over 90 per cent of the students are in receipt of some form of award. The academic year begins in October and is divided into three terms on the British pattern.

EXTRA-MURAL STUDIES At the college there is a department of extra-mural studies whose activities extend throughout the federation, but it is likely that the additional universities, now planned, will in due course take over the work in their areas. The department organizes weekly tutorial courses of which there are over 100 each year, residential courses and week-end schools. The schools are conducted all over the federation, the residential courses are held at the college in vacations.

OTHER INSTITUTIONS OF HIGHER EDUCATION
Among other institutions of higher education the most important has been the Nigerian College of Arts, Science and Technology with branches at Zaria, Ibadan and Enugu. The work of the college extended from instruction in engineering at degree level to preparation for the G C E. Each branch has specialized in one or more subjects, for example that at Zaria in engineering, that at Ibadan in pharmacy and that at Enugu in estate management. It has now been decided that the Nigerian College should cease to exist as a federation of branches and that the site and buildings of the Zaria branch should be taken over by the University of the Northern Region, of the Ibadan branch by the University of Ife, and of the Enugu branch by the University of Nigeria,

it will be for the universities to decide how far they will continue to provide the courses now offered in these branches. There are four technical institutes in the federation, the sessional paper of the federal government proposes that facilities for technical education should be greatly increased. The only other type of institution for higher education is the teacher training college, there are more than 300 such colleges, mostly small in size, and of very different standards.

FURTHER INFORMATION
The most useful source of information relating to higher education in Nigeria is the report of the commission on post-school certificate and higher education in Nigeria published in 1960 by the Federal Ministry of Education, Lagos, under the title *Investment in Education*.

UNIVERSITY COLLEGE, IBADAN*

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 .. Lectr.

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Asst Lectr

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Fullerton, W T, MB ChB *Glas.*

Lectr

Hendrickse, J. P. de V., MB ChB *Cape T*

..

Lectr

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Temp Prof.

Tompkins, A B, MD *Lond*, MRCP

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Hendrickse, R G, MD ChB *Cape T.*,

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Sr Lectr

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Prof.

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Watson-Williams, E J., BA MB BChir *Camb*,

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Worledge, Sheila M, MB BS *Lond*

(Haematol) Lectr

Brew, D. St J., MB BS *Lond*

(Morbid Anat) Lectr

Hall, Elizabeth W, MB BS *Lond*

Lectr

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Sr Lectr

Gool, R Y., MB BCh *Rand*

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Bunning, P S C, MB BS *Lond*

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Grillo, T A I, BA PhD *Camb*

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Dosekun, Chief F. O., MA MD *Dub*,

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Sr Lectr.

Parratt, J. R, BPharm PhD *Lond*

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Elebuke, Mrs. O., MB ChB *Burm*

Asst Lectr

Preventive and Social Medicine

Prof

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Lectr

RadiologyCockshott, W. P., MD DMRD *Edin.* Sr LectrBarton, C. J., MB ChB *Edm.*, DMRD

Lectr

Lectr

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FRCS, FRCSed (Otolaryngol) Sr. Lectr

Sr Lectr.

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Asst Dir

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Allanah, S. S., BCom *Burm*

Tutor

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Tutor

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Tutor

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Tutor

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Tutor

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Res. Fellow

Adu, S. A., BSc *Wales*

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Dobbin, Jennifer L. M., BA *Oxon*

Jr. Res. Fellow

W. Muriel King

Sec

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Acad. Sec. Asst. Registrar (Acad.)A. E. Oradubanya, BA *Lond* Chief Accountant.

H. Preston, Sr. Accountant. N. C. R. Bourne,

BCom *Lond* Accountant. J. C. A. Lamikanra,

Estate Manager: L. T. Chubb Chief Engineer

A. Williams, BSc *Burm* Maintenance Officer

O. O. Apampa Electr. Engineer. I. Ighehon,

BEng *Sheff* Motor Transport Officer: S. O.

Akinwunmi. Clerk of Works S. Pearson,

Catering Officer. Cafeteria Manager,

Hostel Blocks Asst. Catering Officer.

S. T. Sonake. Dep. Librarian. J. Packman,

BA *Lond.*, DipLib, FLA Sub-Librarians: B. G.Hood, BA *N.Z.*; Elizabeth H. Peeler, MAVanderbilt, BA in LS *Emory*, MSLS *Col.*Margot E. Thompson, BSc *Lond*, Juliet O.Landsay, MA *Edin.*, C. C. Momah, BA *Lond.*,S. C. Nwoye, BA *Lond.*; Mrs. F. AdetowunOgunsheye, MA *Camb.* Asst. Librarian Mrs.Tinuade O. Odeinde, BSc *Hull* Printing Man-

ager E. Gresty Principal's Sec. Sybil Reid

Registrar's Sec. Gillian Mintel, BA *Camb.* Bur-

sar's Sec. Mrs. Ena M. Alele Admin. Officers

O. Fatodu, BSc(Econ) *Lond.*, Margaret E.Higgs, BA *Lond.*, L. A. Ilegbodu, I. Ogbue,BA(Econ) *Durh.*, E. A. Maciver Slowe, BAWales, O. Sonubi, MA *Glas* Med. OfficerK. H. Gillison, MB ChB *Edin.*, FRCSed Farm

Manager. G. E. Udom

WARDENS OF HALLS OF RESIDENCE

Mellanyby

Hall D. F. Ojo, BSc PhD *Edm.*, Tedder Hall.J. O. Oyelese, BSc *Burm*; Kutu Hall C. I. O.Olaniran, BSc PhD *Lond*, Sultan Bello Hall.M. J. Banham, BA *Leeds*, Q. Elizabeth Hall(Women). Jennifer L. M. Dobbin, BA *Oxon*,Chm. Students' Hostel O. Awe, BSc PhD *Lond*,Hostel Blocks Rev E. C. O. Ilogu, MA *Col.*,STM *N.Y.*

* * *

LONDON OFFICE London Representative

Marjorie G. Chappell, MA *Lond.*

GENERAL INFORMATION

The coll. was opened in 1948 with a provisional scheme of govt. In 1954 assent was given by the governor on behalf of H.M. the Queen to an ordinance enacted by the legislature of Nigeria, the purpose of which was to reconstitute the coll on a more permanent basis as a coll. in special relation with Univ. of Lond.* for whose degrees the coll. presents its students. New legislation is (March 1962) before the govt., the purpose of which is to establish the coll. as an autonomous univ. offering its own degrees.

CONSTITUTION The coll. council is the supreme governing body and is charged with control of finance. The senate is an academic body which, generally, manages, and where necessary advises the council upon, the educnl. affairs of the coll. In respect of each fac. there is a fac. bd. which deals with courses of study and exams and matters of detail concerning the work of the fac. Fac. bds. are required also to deal with matters referred to them by the senate. The coll. is open to all classes and communities 'without any distinction whatsoever'.

INCOME A grant was made under the colonial development and welfare act towards the cost of the permanent bldgs. The Nigerian govt. has endowed the coll. and makes an annual grant. In addition, endowments amounting to £1,175,000 have been received from the Nigerian Cocoa Marketing Bd. There is also an endowment fund. Income (1959-60) £1,124,705 (incl. Nigerian govt. annual subvention, £538,160; endowment interest, etc., £365,975; student fees, £175,248; rents and misc., £45,322).

FACULTIES AND DEANS (1961-62) *Agric.*, Prof. R. J. McIlroy; *arts*, Prof. Kathleen Geoghegan (maths), *econ. & soc. studies*, Prof. R. H. Barback (econ), *engin.*, ; *med.*, Prof. G. M. Edington (pathol), *sci.*, Prof. E. Nyoku (bot).

LIBRARY 135,000 vols., 2500 current serial publications. Sp. collections include W. African hist. and ethnol. (including 150 Arabic MSS), trop. agric. and trop. med. The library is the legal depository for all Nigerian publications.

LABORATORIES, FIELD STATIONS, ETC. The fac. of agric. has its teaching, res. and admin. bldgs. and its own farm on the coll. site. On the farm, grassland res., crop and animal production are actively proceeding and small herds of Zebu and Ndama cattle, as well as poultry, swine, sheep and goats, are maintained. A considerable area is under mechanized cultivation. As part of res. into moisture conditions in Nigeria, measurements of evapo-transpiration at 10 installations, covering the Niger delta to the northern frontier, are being made.

BOTANICAL GARDENS planned to expand to 80 acres. Mainly indigenous species grown. *Indev. seminum* publ. annually.

UNIVERSITY COLLEGE HOSPITAL Provisionally recognized for clin. teaching for MB BS of the Univ. of London under special relation with the univ.*

INSTITUTE OF EDUCATION (see also 'Teaching Staff', above) Founded 1956, exists to promote res. into W. African educn., to assist trg. colls. assoc. with the inst. in solving problems with which they may be confronted, and to train teachers. 3 courses are offered, leading to postgrad. cert. in educn. of Univ. of London, coll. dipl. in educn. and univ. dipl. in child study.

The NIGERIAN INST. OF SOCIAL AND ECONOMIC RESEARCH (see also 'Teaching Staff', above) is sponsored by the Nigerian fed. govt. and by the univ. coll., with which it operates in close association. Its functions are to conduct econ. and social res. and to provide a centre for indep. res. workers in Nigeria.

INSTITUTE OF CHILD HEALTH Founded 1961 with funds from United Africa Co. received through fed. govt. Its aims are to conduct and co-ordinate res. into problems of child health.

LANGUAGE OF INSTRUCTION. English.

ADMISSION There are 2 methods of admission: (1) by passing the coll. entrance exam. Candidates are ordinarily eligible if they have passed the Cambridge school cert. exam with passes at credit standard or obtained a general cert. of educn. with passes at ord. level in Engl. and 4 other subjects. (2) By direct entry. This is exemption from the entrance exam and may be applied for by candidates who have satisfied the full minimum entry requirements of the Univ. of London together with the addnl. requirements for entry in specific degree subjects.

ACADEMIC YEAR Oct. to June. 3 terms.

FEES for bd. and tuition. *Agric.*, £132-£187 p.a.; *arts*, £127-£152 p.a.; *cdcen.*, £180 p.a.; *med.*, £162-£262 p.a.; *sci.*, £132-£162 p.a. Postgrad. £180. All students are resident.

SCHOLARSHIPS, ETC. Fees plus £75 p.a. for remainder of course awarded by coll. on prelim. exam. and on sessional exam. for direct entry in any fac., Nigerian federal govt. awards annually 10 state scholrs. covering fees, vacation allowances and allowance of £70 p.a. for prelim. & degree course (£80 clin. med.); Nigerian Cocoa Marketing Bd. (open to sons and daughters of cocoa farmers), fees plus £65 p.a. (prelim. students), and £70 p.a. (degree students), and vacation allowances. Federal and regional govts. award bursaries similar to those of the N.C.M.B.,

* For a note on these 'special relationship' arrangements, see p. 961.

to selected students in any fac allowances, according to region, from £50 to £70 (prelim students), £55 to £70 (degree students), £70 to £80 (clin med students), John Holt scholp, 'Cambridge' scholp, Shell Co of Nigeria scholp; Nigerian Tobacco Co scholp, United Africa, Lever scholp. Co scholp., Shell-B P scholp

FIRST DEGREES (of Univ of London). The coll has been admitted to a sp relation with the Univ of London*, and courses of instruct are given in preparation for degrees of that univ. The coll staff co-operate with the Univ of London in preparing syllabuses and in the exams 2 yrs—BA gen., BSc gen.; 3 yrs—BA hons (in classics, Engl., geog, Greek, hist, Latin, maths), BSc spec (in bot, chem, geog, maths, phys., zool), BSc(Agric), BSc(Agric) hons, BSc(Econ), BD, 4 yrs—BSc(Eng), 6 yrs—MB BS

By arrangement with the Nigerian Coll of Arts, Sci and Technol, the courses for BSc(Eng) are given by the dept of engin at the Zaria branch of the coll, which has been recog as the fac of engin of Univ Coll, Ibadan

HIGHER DEGREES (of Univ of London) Post-grad and res. facilities are available in arts, sci. and agric. The coll has started a 1-yr course for the degree of MSc(Agric). Full-time members of the teaching staff may register as internal students for the PhD degree of the Univ of London

DIPLOMAS 1 yr (postgrad.)—postgrad cert in educn (of Univ of London), 1 yr—coll dipl in educn, 18 mos.—coll dipl in child study

LIBRARIANSHIP COURSE, 1 yr, leads to registration exam of Library Asscn., London, and (2yrs) coll DipLib

VACATION COURSES, involving residence in the

coll, are conducted during the long vacation by the dept. of extra-mural studies

ADULT EDUCATION The dept of extra-mural studies arranges classes throughout the 3 regions of Nigeria, the work being financially supported by the regional govts

RESIDENCE Men: Mellanby Hall (accommodates 208 students), Tedder Hall (195), Kun Hall (207), Sultan Bello Hall (167), Clin Students' Hostel (148), Old Site (120). Women: Q Elizabeth Hall (145), New Hostel Block (450)

Partly furnished **STAFF RESIDENCES** of varying types are provided in the coll grounds.

STUDENT HEALTH SERVICE under the supervision of the coll med officers

The **UNION** controls all student athletic and other extra-curricular activities. Student officers elected annually

The **GUILD OF GRADUATES**. All grads of the coll and all grad. members of staff are eligible for membership

The **UNIVERSITY BOOKSHOP**, a limited company controlled by the coll, carries a very varied stock ranging from sec. mod level to books required for postgrad res. and covering most fields of gen. lit. also. It serves the coll, trg. colls, schools, libraries and individuals throughout Nigeria

UNIVERSITY PRESS. Operates under direction of publicns cttee. of senate and has its own printing press. It does all official coll printing and also prints books of scholarship relating to Nigeria and several Nigerian journals of a learned and cultural nature

PUBLICATIONS. *Calendar* (annual, 3s 6d), *Principal's Annual Report*, *Library Record* (monthly)

THE YEAR 1960

PRINCIPAL BENEFACTIONS Rockefeller Foundation, \$40,000 for res. in fac of agric (incl \$28,500 for res. fellowships and \$11,500 for exper. pigeries), Ford Foundation, £20,000 for radiological apparatus, \$10,000 for a W African seminar on labour & manpower, org by extra-mural dept; United Africa Co., £25,000 for a central inst of child health

MAJOR BUILDING DEVELOPMENTS *Bldgs completed* students' union; NISER; domiciliary midwifery centre, 30 staff flats.

RESIGNATIONS P. O. Ahimie (extra-mural), apptd to fed govt; Prof C L H Alexander (educn.), Prof. N S. Alexander (phys.), Miss A C Allan (sec. to principal); N H Booth (extra-mural), M A. Brimer (educn psychol), apptd to res post at Univ, Dr K Ezera (govt), apptd sr. lectr, Brist, of Nigeria, Prof A. D

Galloway (religious studies), apptd sr lectr, Glas, Dr R Harris (bacteriol), V C Ike (asst registrar), apptd dep registrar, Univ of Nigeria, J D Irwin (registrar), apptd vice-principal, Cambridge Coll of Technol, D McEwan (library), Dr D Mendel (physiol), apptd sr lectr in physiol, King's Coll, Lond, Dr S D. Onabamiro (parasitol), apptd min of educn, W Nigeria; Dr B Siertsema (phonetics), apptd to chair of linguistics, V U Amst, Miss M Slater (sec to NISER.), Prof J E Webb (zool), apptd to chair of zool. & biol, Westfield Coll, Lond, C N Williams (bot), Dr S J Worsley (acad sec), apptd to Univ of Lond, Dr A Zulauf (maths), apptd to chair of maths., Univ Coll of Sierra Leone

DEATHS A. Olagunju (lectr in maths), D Wheatley (lectr in plant pathol)

* For a note on these 'special relationship' arrangements, see p 961

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	1176 *	—
Women	79	—
Total	1255 *	—

Distribution by Faculties. *Agric*, 87, *arts*, 363; *educn*, 51, *med.*, 236, *sci*, 291, *res.*, 17.
Total. 1045

Included in the figures above are —

New admissions, 377 (excluding Zaria)

Postgraduate students, 24

Students from other countries, 43

DEGREES AWARDED (1960) Special relationship
with Univ of London—*Agric* BSc(Agric), 11
Arts BA, 54; BA (hons), 58, *agrotat*, 1
Engin BSc(Eng), 1 *Med* MB BS, 13 *Sci*
BSc, 4, BSc (spec), 46 External degrees of
Univ of London—BA (hons), 3, BSc (spec.), 6
Total number of first degrees awarded, 197

DIPLOMAS AWARDED Associateship dipl in
educn, 37

CERTIFICATES AWARDED (1960) PGCE, 6.

* Includes 114 engineering students at Nigerian College, Zaria

UNIVERSITY OF IFE

Founded 1961

Postal Address Ibadan Branch, Ibadan, Nigeria, West Africa

CHAIRMAN OF PROVISIONAL COUNCIL—Chief F R A WILLIAMS, QC, MA Camb

VICE-CHANCELLOR—O A AJOSI, OBE, JP, MD DPH Glas

PRO-VICE-CHANCELLOR—S O BIOBAKU, CMG, MA Camb, PhD Lond

REGISTRAR—A. Y EKE, MA Camb, BSc Lond.

GENERAL INFORMATION

The univ is an entirely independent instn to be governed by a council establd by Univ of Ife (Provisional Council) Law, 1961

It is hoped to admit students for the academic year 1962-63

CONSTITUTION. Governing body of univ is council, composed of following members apptd by govt. in council chairman, vice-chancellor, pro-vice-chancellor, not less than 5 nor more than 9 other members not employed on academic or admin staff of univ., and registrar as secretary. There are also 2 members of academic bd selected by the bd. Academic bd is empowered to regulate teaching, academic policy and advancement of res. of univ., and to deal with any other matters assigned to it by council.

INCOME. Govt of western Nigeria allocated initial sum of £1,000,000 from its estimates for 1961-62. It is also envisaged that the Western Region Marketing Bd will donate a substantial sum for bldg of univ.

FACULTIES. During 1st quinquennium 8 facs (agric., arts, econ, engin, law, med, sci, sociol)

are to be developed. There is also to be an Inst of African Studies.

LOCATION. Ife, seat of the new univ, is an ancient town with important historical and archaeological associations. It lies 55 miles NE of Ibadan, headquarters of western Nigeria, and 143 miles from Lagos, capital of the fed of Nigeria. Site of univ is about 3 miles from Ife town and covers 16,000 acres of good agric land.

STUDY LEAVE. On recommendation of academic bd, study leave may be granted to a member of staff for 1 term after ~~the univ has completed 9 terms of service~~

ACADEMIC YEAR. Oct to June 3 terms

STUDENT RESIDENCES. Students are to be accommodated in residential student hostels and in lodgings in town.

STAFF RESIDENCES. Staff accomm, if provided by univ, will be at a rental not exceeding 7 per cent of salary.

UNIVERSITY OF NIGERIA

Founded 1960 (Statute of Incorporation, 1955)

Postal Address Nsukka, Nigeria, West Africa

Cables and Telegrams Nigersity, Nsukka

Telephone Nsukka Exchange

(London Representative, 33 Craven Terrace, W.2 Telephone, Paddington 7961)

CHAIRMAN OF PROVISIONAL COUNCIL—H E The Rt Hon N AZIKIWE, MA MSc LLD DLitt,
Governor-General of the Federation of Nigeria

ACTING PRINCIPAL—G M JOHNSON, MSc LLD *Calif*

REGISTRAR—

ACTING SECRETARY TO PROVISIONAL COUNCIL—B. CHUKWUEBE, MA BSc *Oxon.*

BURSAR—J MANGOLD, MA *Camb.*

LIBRARIAN—R. V ATHAIDE, PhD BSc LLB *Bom*, FLA

TEACHING STAFF

Economics		Sr Lectr	
Cox-George, N. A., MSc PhD <i>Lond.</i>	Prof	Russell, Rev Father B, MSc HDipEd <i>Dub</i>	Lectr
Fashola, O, MA <i>Ill</i>	Sr Lectr.	Music	
	Lectr.	Echezona, W W C	Lectr
	Lectr		
Education		Physical Education	
Okala, J B C, MA EdD <i>Col</i> , MA(Ed) <i>N Y</i>	Prof	Whitfield, M, BSc <i>Ohio State</i>	Sr Lectr
Fafunwa, A. B., BSc <i>Florida</i> , MA PhD <i>N Y</i>	Sr Lectr	Christian, Miss P E G, BA BT DipEd <i>Bom</i> , MPE <i>Springfield</i>	Lectr
Adeyefa, Rev S A., MA BCL <i>Durh</i>	Sr Lectr	Political Science	
Ukpaby, E N, MA <i>Atlanta</i> , PhD <i>Brandeley</i> , BSc <i>Tuskegee</i>	Lectr	Blyden, E W., MA MEd PhD <i>Hav</i>	Sr Lectr
Anowi, J O, MA BEd <i>Edin</i>	Lectr	Ezeia, K, MA <i>Hav</i> , DPhil <i>Oxon.</i>	St. Lectr
Anyaeagbunam, J C, BA MS <i>N Y</i>	Asst Lectr	Aligwekwe, I E, MA <i>McG</i> , PhD <i>Ohio State</i>	Lectr.
Njoku, O, BSc <i>Benedict</i> , MA <i>S'ton</i>	Asst Lectr	Aligwekwe, Mrs. E C, MA PhD <i>Ohio State</i>	Lectr.
Inyang, P E B, BA <i>N U I</i> , MEd <i>Lond</i>	Asst Lectr	Sociology	
English		Ndem, E B, MA DipEd <i>Lond.</i> , BA <i>Manc</i>	Prof
Bordinat, P, MA <i>Wayne State</i> , PhD <i>Birm</i>	Prof		Lectr.
	Prof		Lectr.
Shelton, A. J., BS PhD <i>St Louis</i>	Sr Lectr	LOANED BY MICHIGAN STATE UNIVERSITY	
Thomas, P D, MA <i>Oxon</i>	Sr Lectr.	Davis, R., MA PhD <i>Mich State</i>	
Diggs, P. L., BA <i>Virginia State</i> , LLB <i>Howard</i> , MA <i>Iowa</i>	Lectr	(Vocational Educn) Prof.	
Rogers, P E, BA <i>Utah</i> , MA <i>Corn</i>	Lectr.	Edwards, A. L, MA <i>Mich</i> , PhD <i>Iowa</i>	
History		(Econ) Asst Prof	
	Prof	Ferguson, L C., AB <i>Miami</i> , MA	
Achufusi, M, MA PhD <i>Lep</i>	Sr Lectr	PhD <i>Ohio State</i>	(Pol Sci) Prof.
	Lectr	Hanson, J. W, MA PhD <i>Ill</i>	(Educn) Prof
Mathematics		Hill, M C, MA <i>Kansas</i> , PhD <i>Chic</i>	(Sociol) Prof.
Chaudhuri, P C, MSc <i>Calc.</i> , PhD <i>Lond</i>	Prof	Lawton, K., BSc <i>Mann</i> , PhD <i>Mich State</i>	(Agric)

Loving, A D, MA DEd *Wayne State*
Dean of Students
Martin, B, BS *Tor*, MS PhD *Conn*
(Entomol)
Tibbs, Mary Admin Asst

LOANED BY INTER-UNIVERSITY COUNCIL FOR HIGHER EDUCATION OVERSEAS

Noonan, J A, MA DPhil *Oxon* (Engl)
Wardle, K L, MA *Camb* (Maths)

ADMINISTRATIVE AND OTHER STAFF

Dep Registrar V C Ike, BA *Lond* Asst
Registrar H C Oguchi, LLB *Brist* Asst
Librarian C. Okigbo, BA *Lond* Med Officer
O L. Ekpechi, MB BS *Lond* Chief Accountant
J B Fleming Dep. Chief Accountant J H

Bassey Univ Engineer Maintenance
Engineer O G Edozien Catering Manager
Miss R Iloanya
London Representative Col E C Alderton

GENERAL INFORMATION

The univ is an independent inst to be governed by a council established by the Univ of Nigeria Law 1955

CONSTITUTION The paramount governing body of the univ is the council which is composed of the chancellor, chairman, principal, vice-principal and such other persons not exceeding 15 in number as may be provided for by the univ statutes. The senate, which deals with academic matters, consists of the principal, deans of the several facs, dirs of the several insts., all profs of the univ, the librarian, the dir of extra-mural studies and 2 members of the academic staff to be elected by congregation.

INCOME. The income of the univ. is derived from a 'Univ. of Nigeria Fund' which consists of an annual grant of half a million pounds from the Eastern Regional Marketing Bd—a statutory corporation created by the govt. of Eastern Nigeria. The fund, which was set up as a result of an Eastern Regional directive of 1955, totalled £2,500,000 at Dec 31, 1959. An addnl. source of income is expected from the development of a large acreage of land which is being allocated to the univ for this purpose on the lines of the land grant colls of the USA.

FACULTIES Arts The coll of educn. admitted students in Jan 1961

LOCATION The univ town of Nsukka is 40 miles from Enugu, the admin. capital of Eastern Nigeria. A total area of 1000 acres of land has been acquired for use by the univ. and a further 15,000 acres is contemplated for use by the univ. as an agric. and commercial site.

MICHIGAN State Univ is contributing considerably to the organization of the new univ. A jt univ advisory cttee, which it is hoped will include representatives of Michigan State Univ. and of the Univ of London as well as members of the Univ of Nigeria, is to report to the univ on a wide range of its activities.

FIRST DEGREES The univ intends to award its own degrees. It is proposed that most degree

courses will take 4 yrs, or 3 yrs for students of advanced standing.

HIGHER DEGREES The groundwork is being prepared for master's and doctorate degrees of the university. There are at present no postgrad students.

DIPLOMAS 2-yr univ. dipl in educn

FEES Inclusive fee for tuition and residence for undergrads. £130 per academic yr.

ACADEMIC YEAR 3 terms of 10 wks each, from Oct to June inclusive

LANGUAGE OF INSTRUCTION English

SCHOLARSHIPS 24 univ foundation loan scholps awarded Oct 1960 (value, £145 p a, awards annual till further notice), 1 Bank of W Africa scholp; 1 Pfizer scholp, Nigerian Fed & regional govt scholps

STUDENT RESIDENCE The majority of students are accommodated in the univ. There are 2 hostels, one for men and one for women. More hostels are under constrcn.

STAFF RESIDENCES. Staff accomm. is provided by the univ. at a rental not exceeding 7.7 per cent of salary.

UNIVERSITY HEALTH CENTRE A health service for staff and students is in operation, under the direction of a full-time med officer. There is provision for in-patients.

STUDENTS' UNION There is a students' union to which all students belong on payment of £2 p a. Temp union bldg includes canteen, offices and games rooms.

STAFF SCHOOL A univ primary sch has been establd. It is proposed that a univ sec school will be built in the near future.

UNIVERSITY BOOKSHOP. The Univ Bookshop (Nigeria) Ltd., Ibadan (see p. 722), at present runs a branch bookshop in the univ.

THE YEAR 1960

OPENING CEREMONY performed on Oct 7, 1960, by H.R.H. Princess Alexandra of Kent (representative of H.M. Queen Elizabeth II at Nigerian independence celebrations) when she laid foundation stone of univ auditorium in presence of about 10,000 guests (incl H.E. the governor-general of the fed of Nigeria, the premier of E Nigeria, ministers and reps of univs in W Africa, U.K. and U.S.A., and of the community)

The foundation undergrads came into residence on Oct 10, 1960

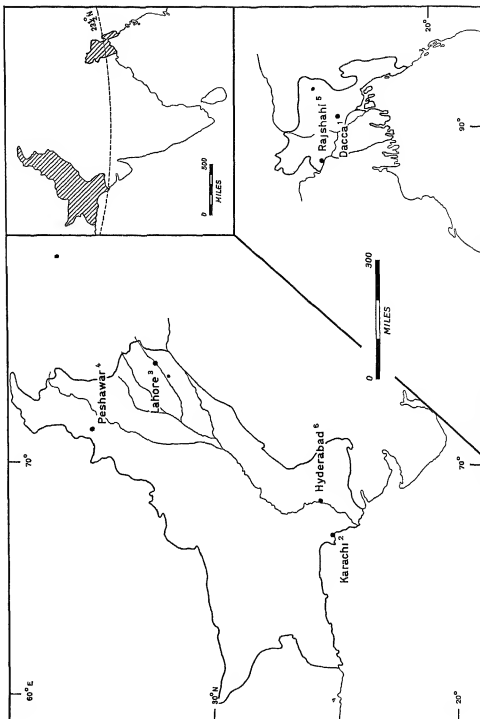
MAJOR BUILDING DEVELOPMENTS *Bldgs. completed*. temp admin block, block of lecture rooms, hostel blocks, 36 sr staff houses, temp students' union, temp health centre

Statistics**STUDENT NUMBERS, 1960-61**

Fac of Arts	214 (187 m, 27 w)	Coll. of
Educn	41 (35 m, 6 w)	

PAKISTAN

- 1 University of Dacca (p. 735)
- 2 University of Karachi (p. 742)
- 3 University of the Panjab (p. 746)
- 4 University of Peshawar (p. 754)
- 5 University of Rajshahi (p. 759)
- 6 University of Sind (p. 763)



The places named are seats of university institutions as numbered overleaf

THE UNIVERSITIES OF PAKISTAN

[Originally contributed by Dr. A. H. Zuberi, then Vice-Chancellor of Rajshahi University, subsequently revised by the Secretary of the Inter-University Board of Pakistan]

HISTORY. The universities of India and Pakistan have not developed from such famous ancient centres of learning and scholarship as Takshasila and Nalanda. Takshasila flourished as a centre of education only till the fifth century A.D., while Nalanda ceased to exist towards the end of the twelfth century.

In the mediæval period, while seats of Hindu learning remained in the east and south, the Muslim rulers evolved an elaborate system of higher education and encouraged the establishment of colleges at places like Delhi, Allahabad, Lucknow, Lahore, Rampur, Ajmer and Bidar. The curriculum in these colleges was somewhat similar to those in the mediæval European universities, that is, the *trivium*—grammar, logic and rhetoric—and the *quadrivium*—arithmetic, geometry, music and astronomy—and to these were added a study of philosophy, theology and Muslim law. Certain colleges specialized in particular subjects. For instance, the college at Lucknow specialized in theology and those at Rampur in logic and medicine, at Lahore, astronomy and mathematics were emphasized. The medium of instruction in these colleges (*madrasahs*) was mainly Arabic. Although most *madrasahs* disappeared or were absorbed in later institutions, some still exist and carry on the traditions of the older form of learning.

When the British succeeded the Muslims as rulers in India, they were slow to develop a distinctive system of higher education, and it was not until the beginning of the nineteenth century that English schools and colleges began to be established in presidency towns like Calcutta, Bombay and Madras.

In accordance with the recommendations of the famous despatch of Sir Charles Wood (1854), the court of directors of the East India Company established the universities of Calcutta, Bombay and Madras in 1857. The model for these universities was the newly established University of London, which was then a purely examining body. This had an unfortunate effect on the development of higher education in the sub-continent, since the universities were slow to establish teaching departments of their own or to encourage intercollegiate instruction. It is significant that no other university was established till 1882, when the University of the Punjab was founded. The University of Allahabad was established in 1887 and thus there were only five universities till 1914. In 1914–20 a rapid development of higher education took place. Eleven

universities were established then largely because education became a provincial subject when provincial autonomy was granted in 1919, and there was democratic pressure in provincial parliaments for the rapid extension of facilities for higher education.

When Pakistan came into being on the partition of India, in 1947, there were only two well-established universities in the country, namely, the University of the Punjab (1882) and the University of Dacca (1920), the University of Sind had been created only a few months before partition and began to function at Karachi on April 3, 1947. Independence brought in its wake a significant movement for the development of higher education at an accelerated pace and three more universities were subsequently established, namely, the universities of Peshawar (1950), Karachi (1950) and Rajshahi (1953).

STRUCTURE OF UNIVERSITIES There is no single pattern to which all the universities conform though all are now both teaching and affiliating institutions. The trend of present policy in the sub-continent is against the establishment of purely affiliating and examining universities.

Although Dacca began as a unitary teaching university whose jurisdiction was restricted to the city of Dacca, from 1947 it also assumed the functions of an affiliating university. Karachi is an affiliating university, whose jurisdiction is limited to the city of Karachi. It has, however, also organized teaching on a federative basis and all postgraduate and research teaching is under the direct control of the university. The structure of the Punjab is more complex. The university began as a purely affiliating institution but gradually developed its own teaching departments. It has three kinds of college under its jurisdiction: (i) university colleges which are maintained by the university itself; (ii) teaching colleges in Lahore which are maintained by the government of West Pakistan and private managing bodies (there is also a government technical college affiliated to the university but situated outside Lahore); (iii) affiliated colleges located in various districts. Peshawar is an affiliating as well as a teaching university, all the technical and professional colleges, in addition to the postgraduate teaching departments, are under its direct administrative and academic control. Sind has a limited number of postgraduate teaching departments of its own, most of the undergraduate teaching work being carried on in the affiliated

colleges. University teaching at *Rajshahi* is confined to the postgraduate level, all undergraduate teaching up to BA and BSc standard is carried on in the affiliated colleges

RELATIONSHIP TO GOVERNMENT. All the universities were established by acts of provincial legislatures except Karachi, for which an act was passed by the central legislature since it is situated in the federal capital. All are corporate, autonomous bodies. All statutes and ordinances framed by the universities are subject to sanction by the provincial or federal government or the chancellor, as the case may be

FINANCE The annual grants made by provincial governments through their education departments constitute the main source of income of all the universities. University accounts are strictly audited by the accountant-generals of the provincial governments. During the last few years, the government of Pakistan have accepted the principle of making direct grants for various schemes submitted to them by the universities from time to time. These grants are not routed through the provincial governments and are at present awarded by an *ad hoc* committee appointed by the government of Pakistan on which the Vice-Chancellors' Committee of the Universities of Pakistan is represented

The budgets of universities in Pakistan are formulated on an annual basis. They are first submitted to the syndicate or executive council, as the case may be, and then placed before a larger body called the senate or court. The ratio of government grant to total budget varies from one university to another, but the general pattern seems to be that government grants amount to more than one-half of the total annual income, the remaining income coming from such other sources as tuition fees, examination fees and fees for the registration of graduates

ADMISSION, STRUCTURE OF DEGREE COURSES, ETC. After matriculation (which follows ten years of school attendance) students are admitted to intermediate or degree colleges where two-year courses lead to the intermediate examination in arts or science. BA and BSc pass degrees each take a further two years (three years for honours). The course for a master's degree in arts or science lasts for two years after the pass BA or pass BSc, or one year after an honours degree. The Inter-University Board of Pakistan has recommended the universities to adopt a three-year course for a bachelor's degree in arts or science, whether pass or honours, to be followed by a two-year course for the master's degree. In all universities the PhD course lasts for two or three years after the MA or MSc. Some universities do not hold their own entrance examinations but accept the intermediate certificate as a qualification for admission to a course leading to a pass or honours degree; others hold their own matriculation and intermediate examinations. Diplomas in education and foreign languages are awarded by some universities. English is the medium of

instruction in all universities and colleges (including intermediate colleges)

TEACHING STAFF. Professors, readers and lecturers are selected by committees which are usually composed of members of the faculties, academic board or council, and experts nominated by the chancellor. The appointments are made by the executive council or the syndicate of the university. There is no restriction with regard to the appointment of teachers of foreign nationality. Most of the teachers employed have gained their first degrees from universities in Pakistan or India and many have higher degrees from Europe, the UK or USA

The retiring age in most universities is sixty years. There is no pension scheme but the benefit of provident funds is available. There is no fixed provision for sabbatical leave but each university may grant study leave to its teachers for a period of two to three years

Teaching at the undergraduate level is conducted by lectures and group discussions. The tutorial system has been introduced in all universities and at the honours and postgraduate level special attention is paid to tutorial and seminar work

STUDENTS In 1959-60, 56,883 students were enrolled at undergraduate (excluding intermediate) and postgraduate levels in universities and arts and science and professional colleges. 8935 in university teaching departments, 28,681 in arts and science colleges, and 19,267 in professional colleges

In Pakistan students enter college or university a little earlier than in the United Kingdom. The age of most students lies in the 16-19 range. On the basis of the 1951 census it has been estimated that the 16-20 age group forms about 10 per cent of the entire population and that of this age group approximately 4 per cent are students in intermediate or university classes.

The general level of fees is almost uniform and amounts to approximately £15 a year. Dacca, Panjab and Peshawar have hostels or halls of residence, while Karachi, Rajshahi and Sind are endeavouring to move to new campuses where similar facilities will be available. The cost of residence is about £57 a year

ACADEMIC YEAR. At Dacca, Karachi and Rajshahi, the academic year normally begins in July and is divided into three terms: July-September, November-December and January-April. At Panjab and Peshawar the three terms are September/October-December, January-March, April-June. At Sind there are two terms: July-November, November-March

ADULT EDUCATION No adult education classes are conducted by the universities.

INTER-UNIVERSITY ORGANIZATIONS. The Inter-University Board of Pakistan was constituted in 1948 by the Ministry of Education, Government of Pakistan. The board consists of three members from each university, one being the

vice-chancellor and the other two nominees of the syndicate or the executive council (one of these nominees must be the principal of an affiliated college or the head of a teaching department). The chairman and the secretary of the board for 1961 are respectively Dr M Husain, Vice-Chancellor, University of Dacca, and Professor K. M. Hosain, MA *Alig*, BA *Oxon* (42W, P E C H S Block 6, Karachi 29, West Pakistan).

There is also a Standing Committee of Vice-Chancellors with well-defined powers. All the vice-chancellors are members *ex officio* of the Inter-University Board, the two other nominees of each university retire annually and are replaced by new nominees. The educational adviser to the government of Pakistan has the right to attend meetings of the board but has no power to vote.

The Inter-University Board created in 1953 an Inter-University Sports and Athletic Board which is responsible for organizing sports and athletics on a national basis.

A National Union of Students was formed in 1957.

THE UNIVERSITIES TO-DAY. The government of Pakistan have set up a planning board which has prepared an elaborate plan for the expansion and co-ordination of education over a five-year period. An attempt is being made to integrate all forms of higher education into one system in which educational standards will be comprehensively defined and maintained. It is being generally recognized in Pakistan that this can be achieved only by affirming the leadership of the universities in the cultural life of the nation and by making them the focal points of real and effective national policies for higher education. The planning board also recommended the setting up of a University Grants Committee on the model of the UGC in Britain so that it may help the government as well as the universities in formulating long-range plans and in directing the expansion of the universities on a planned basis. The total expenditure on education by the central and provincial governments was raised from Rs 226,728,000 in 1959-60 to Rs 264,906,000 in 1960-61, this is an increase of 16.8 per cent and also represents an increase in expenditure on education from 6.99 per cent of the total revenue expenditure to 7.58 per cent.

Higher education in Pakistan is still based on the western concept of liberal education. Education is entirely secular, teachers and students being at liberty to pursue their studies or research free and unfettered from any political or theological bias. But with the phenomenal increase in student numbers the universities in Pakistan have become conscious of the role which they are destined to play in the national life of the country, and there is a general tendency to maintain and assert the continuity of Islamic traditions and idealism.

INSTITUTIONS OF HIGHER EDUCATION OTHER THAN UNIVERSITIES. Higher education in Pakistan is almost entirely confined to universities,

there being hardly any independent professional or technical institutions providing postgraduate instruction. Medical, law and engineering colleges are constituent colleges of a university, are subject to the control of the university in academic matters but administratively are under the relevant government departments. The faculties and boards of studies relating to these colleges are formed according to university statutes and their conduct is regulated by the university's legislative and administrative organizations: the senate, the syndicate and the academic council. At present there are no teacher training faculties in universities but plans are being made for initiating courses in education as a part of the universities' teaching activity. Teacher training colleges, like the Central Training College, Lahore, are administered by the Government Directorate of Public Instruction and are intended to supply trained teachers for government secondary schools.

NATIONAL EDUCATION COMMISSION. The government of Pakistan has set up a National Education Commission, with wide terms of reference, which has been enquiring into the entire range of existing educational facilities in the country and has made recommendations for the reorientation and reorganization of the educational system, in the light of national needs. So far as university education is concerned, the commission was specifically asked to consider, *inter alia*, the constitution, administration, control and jurisdiction of universities, the finances of universities and colleges, admission requirements (including the place of the present intermediate courses), the length of degree courses (including postgraduate courses), advanced study and research, scientific and technological education, the need for the highest standards of teaching and research in the universities and colleges, the need for the co-ordination of specialist fields, the advancement of Islamic studies and oriental learning; the qualifications and conditions of service of university and college teachers, student discipline, the development of a tutorial system; and the system of examinations. The report of the commission has been published (*see below*). The chairman of the commission was Dr. S. M. Sharif, educational adviser and *ex-officio* secretary to the government of Pakistan, Ministry of Education, Karachi.

In accordance with the recommendations of the Commission on National Education, intermediate classes have been transferred from degree colleges to separate institutions under the control of boards of secondary and intermediate education, the duration of the pass and honours courses has been extended to three years, with a university examination at the end of each year, and four new universities have been established: West Pakistan University of Engineering and Technology at Lahore; West Pakistan Agricultural University at Lyallpur; East Pakistan University of Engineering and Technology at Dacca; and East Pakistan Agricultural University at Mymensingh.

FURTHER INFORMATION (see also the 'Publications' section in each university entry below) Apart from the *Commonwealth Universities Yearbook*, the following handbook and official reports may be consulted

Handbook of the Universities of Pakistan, 1955-56. (Inter-University Board of Pakistan, 1956)
Report of the Commission on National Education (Government of Pakistan Press, Karachi, 1960)
 Other Publications of the government of Pakistan
The First Five Year Plan (1955-60). Education and Training (1956).

Six-Year National Plan of Educational Development for Pakistan, Part I (1951)

Proceedings of the Pakistan Educational Conference held on November 27, 1947, at Karachi

Minutes of the Council of Technical Education for Pakistan, 1948.

Report of the Agriculture and Veterinary Education Committee, 1950

Proceedings of the Advisory Board of Education for Pakistan (published from time to time by the Ministry of Education, Government of Pakistan)

DIRECTORY TO SUBJECTS OF STUDY

RESEARCH DEGREES Most universities lay special emphasis on research. The following degrees are awarded *Dacca*—PhD in arts or science, LLD, DLitt, DSc *Karachi*—PhD in arts or science. *Panjab*—PhD in arts or science, LLD, DSc, DLitt, DOL *Peshawar*—PhD in arts or science. *Rajshahi*—PhD in arts *Sind*—DPhil, DEd.

OTHER DEGREES, DIPLOMAS, ETC. The following notes relate mainly to subjects that cannot be studied at all universities

Agriculture *Dacca*, *Panjab*, *Peshawar* and *Sind* award a bachelor's degree in agriculture, *Dacca*, *Panjab* and *Sind*, a master's degree also.

Commerce All universities except *Peshawar* award a BCom, *Dacca*, *Karachi*, *Panjab* and *Rajshahi*, an MCom also

Dentistry is taught at most universities only as part of the medical degree course, *Panjab* offers a BDS and MDS.

Education The training of teachers for elementary schools is usually given in normal schools unconnected with the universities, but *Dacca* has a college for the training of teachers for primary schools (a diploma, and higher diploma, in education are awarded) Courses for teachers in secondary schools—*Dacca*, *Karachi*, *Peshawar* and *Sind* award the degree of bachelor of teaching (BT), *Panjab* the degree of bachelor of education (BEd) and *Rajshahi* a diploma in education, the MEd is awarded by *Panjab*, *Rajshahi* and *Sind*, the MT by *Dacca* and the DEd by *Sind*.

Engineering and Applied Science. All universities except *Rajshahi* offer a bachelor's degree in engineering. In addition, a diploma in engineering is awarded by *Dacca* and an MScTech by the *Panjab*

Fine Arts. MA course at the *Panjab*

Foreign Languages *Dacca*—junior and senior proficiency certificate in elementary German; *Karachi*—certificates in Bengali, French, German

and Spanish, *Panjab*—diplomas in French, German, Spanish and Turkish *Peshawar*—diplomas in French and German.

Forestry. *Peshawar* offers a pass and an honours degree.

Home Economics *Panjab* and *Peshawar* offer a bachelor's degree

International Relations *Dacca* offers an MA, and *Panjab* a postgraduate diploma (evening classes) in international affairs.

Journalism A diploma is awarded by *Karachi* and *Panjab*

Law All universities award an LLB; *Dacca* and *Panjab* an LLM and LLD in addition

Medicine The degrees of MB BS are awarded by all universities except *Rajshahi*, *Panjab* also offers an MD and *Sind* a BUMS.

Oriental Learning *Dacca* has a department of Islamic studies which offers courses leading to a bachelor's degree. *Karachi* has a faculty of Islamic learning. *Panjab* offers the following degrees in oriental learning. BOL, MOL, DOL *Peshawar* holds examinations for proficiency, high proficiency and honours in oriental learning and has a department of Islamiyat which offers courses leading to the degrees of BA and MA in Islamiyat. *Sind* has a faculty of Islamic studies under which are grouped departments of religion, Islamic culture and Muslim history

Pharmacy *Panjab*—BSc

Public Administration *Karachi* has an institute of business and public administration and awards the degrees of master of public administration and master of business administration. Specialization in public administration forms part of course for MA in political science at the *Panjab*

Social Work *Panjab*—MA.

Veterinary Science *Dacca*—BSc(AH), LVS (licentiate in veterinary science). *Panjab*—BSc(AH)

UNIVERSITY OF DACCA*

Founded 1921

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CHANCELLOR—THE GOVERNOR OF EAST PAKISTAN (*ex officio*)
VICE-CHANCELLOR—M. HUSAIN, PhD *Hesdel*.
TREASURER—S. M. ALI, BSc
REGISTRAR—A. H. TALUKDAR, MA *Lond & Dacca*
DEPUTY REGISTRAR—N. AHMAD, BA
LIBRARIAN—M. S. KHAN, MA BL, FRHistS

TEACHING STAFF

[†=Part-Time]

Arabic and Islamic Studies

Haque, S, MA PhD <i>Lond</i> .	Prof.
	Reader
Aziz, A, MA	(on leave) Lectr
Rahim, S A, MA BE BT	Lectr
Ishaque, M, MA PhD	Lectr
Rahman, K M A, MA BT	Lectr
Hasan, M S, MA DPhil <i>Oxon.</i>	(on leave) Lectr
Sadeque, Mrs S Fatima, MA PhD <i>Lond</i>	Temp. Lectr
Rahmani, A A, MA	Temp. Lectr
Ahmed, Z, MA	Fellow

Rahman, M, MSc PhD *Texas*
Sukur Khan, G. M. A.
Purakayastha, A. R.

Fellow
Fellow

Botany

Ahmed, M., MSc PhD *Camb.*
Huq, A, MSc PhD *Lond*
Islam, A. K. M. N., MSc
Khan, M. S., MSc *Alig*
Ismail, M, MSc
Khan, S. A., MSc *Luck.*
Khan, Md A A, MSc
Mia, M D A W, MSc
Jalaluddin, Md, MSc
Bhattacharjee, J. K., MSc
Khan, N A, MSc
1 Lab. Asst

Prof.
Reader
(on leave) Lectr
(on leave) Lectr
Lectr.
(on leave) Lectr.
Lectr
Temp. Lectr.
Lectr
Fellow
Fellow

Bengali and Sanskrit

Hai, M A, MA <i>Lond & Dacca</i>	Prof.
Muhammad, K D, MA	(on leave) Lectr
Chaudhury, A N M M, MA <i>Harv. & Dacca</i>	Lectr
Chowdhury, M H, MA	Lectr.
Sharif, A, MA	Lectr
Ibrahim, Mrs Nilima, MA PhD	Lectr
Tagore, R G, MA	Lectr.
Kantha, S, MA	Lectr
Ansuzzaman, A T M, MA	Lectr.
Bachaspatt, K	
Chakrabarty, B	

Chemistry

Khundkar, M. H., MSc PhD *Durh.*
Ahmad, M., MSc PhD *Penn.*
De, S. C, DSc
Bhuiyan, A. M, MSc
Bhuiyan, A. S. M. N. H, MSc
Nawab, A, PhD *McG*, MSc
Hyder, S. Z., PhD *Lond*, MSc
Rahman, A, PhD *Lond*, MSc
Huque, M, PhD *McG*, MSc
Nabi, S N, MSc PhD *Camb*
Khorusani, G S M, MSc
Eusuf, M, MSc
Haque, K. E., MSc
Zaman, A. K. H A, MSc
1 Lab Asst

Prof
Reader
Lectr
Lectr
Lectr.
Lectr
Lectr
Lectr
Lectr
Lectr
Temp. Lectr
Fellow
Fellow

Biochemistry

Ahmad, K., MSc PhD <i>Wis.</i>	Reader
Jabbar, A, MSc PhD <i>Lond</i>	Lectr.
Alam, S A K M N, MSc	(on leave) Lectr.
Rahim, A, MSc	Temp. Lectr
Khan, M N H, MSc PhD <i>Ott</i>	Lectr

* Member of the Association of Universities of the British Commonwealth

Commerce

Husain, A F A , MA MSc(Econ) Lond	Prof
Safullah, M , MA Calc , BCom Lond	Reader
Shahadatullah, A H , MCom (on leave)	Lectr
Fatouk, A , MA Calc , PhD	Lectr
Quddus, R , MCom	Lectr
Habibullah, M , MCom	Jr Lectr
Haque, W , MA	(on leave) Jr Lectr
Baquer, A A M , MCom	Temp Lectr
Malek Mian, A , MCom	Temp Lectr
Choudhury, S A , MCom	Temp Lectr
Subhan, K M , MA LLB	† Lectr
Khan, A U , MCom	† Lectr

Economics

Huda, M N , PhD Corn., MA	Prof
Islami, N , MA PhD Harv	
Huq, M , PhD Lond , MA	Reader
Mahmood, A N M , MA	(on leave) Lectr
Dhar, H , MA	Lectr
Alam, S N , MA MSS Inst for Soc Studies	
(TheHague), MA	Lectr
Sobhan, R, BA Camb	Lectr
Ahmad, A S M M , MA	(on leave) Lectr
Razzak, A , MA	Lectr
Ahmad, M , MA	(on leave) Lectr
Hossain, K T , MA	(on leave) Jr Lectr
Hossain, M A , MA	
Ahsau, A , MA	Temp Lectr
Islami, M M , MA	Temp Lectr
Karim, A , MA	Temp Lectr

English

Hossain, S S , MA PhD Nott	Prof.
Murshid, K S , PhD Nott , MA	Reader
Gomes, R A , MA	Reader
Thakurta, J G , MA	Lectr
Roy, B C , MA	Lectr
Munim, K M A , MA	Lectr
Chowdhury, A F S I , MA	Lectr
Karim, M E , MA	Temp Lectr
Hoque, M A , MA	Temp Lectr
Hena, A , MA	Supernumerary Teacher
Hena, M A , MA	Temp. Fellow
Jahan, Miss R , MA	Temp Fellow

Geography

Ahmad, N , MA PhD Lond	Prof
Dietrich, Prof S de	Fulbright Scholar
Rizvi, A I H , MA Alg , PhD Louisiana	Lectr
Khan, F K , MA Alg , PhD Louisiana	Lectr
Nagavi, S H H , MA N Carolina	(on leave) Lectr
Huq, Md F , MA PhD	Lectr
Huq, M A Q L , MSc	Lectr
Islam, M. A , MSc	(on leave) Lectr
Cartographer	

Geology

Latif, M A , MSc Calc , PhD Lond	Reader
Wahab, M A	† Lectr

History

Hahm, A , MA PhD	Prof
Dani, A H , MA PhD Lond	Reader
Kabir, M , MA PhD Lond	Reader
Sayed, A F M , MA	Lectr
Bhattacharyya, S C , MA	Lectr
Rahman, W , MA	Lectr
Karim, A , MA PhD	(on leave) Lectr
Khair, M A , MA	(on leave) Lectr
Ali, M M , MA	(on leave) Lectr
Ahmad, G , MA	Temp Lectr
Asghar, G A , MA	Temp Lectr
Choudhury, A M , MA	Fellow
Nasiruddin, A Z M , MA	Fellow
Bultman, Dr W A	Fulbright Scholar

International Relations

Aziz, M A , MA PhD Lond , MSS Inst	Prof
for Soc Studies (TheHague)	Reader
Siddiqua Huda, Mrs Ummekulsum K ,	
MA	Lectr
Khan, R A , MA	(on leave) Lectr
Rafiq, Mrs. L	(on leave) (German) Teacher
Yusuf, S S , MA	Temp Lectr
Sturmhofel, Mrs G	(German) Teacher

Islamic History and Culture

Habibullah, A B M , MA Calc., PhD	
Diplab Lond , FLA	Prof
Khan, A M , MA Calc.	Lectr
Imamuddin, S M , MA DPhil Calc.	Lectr
Islam, M S , MA Calc , PhD Berl	Lectr
Karim, M R , MA	Lectr
Tarafdar, M M R , MA	Lectr
Alam, A K M A , MA	Temp Lectr
Hasan, S M , MA	Temp Lectr
Hashmi, A R	† Lectr
Ahmed, Mrs Sufia, MA PhD Lond.	

Law

Siddiqui, N U A , MA BCL Oxon.,	Sr. Prof.
LLD Dub.	Prof
Ansari, S , LL M MA	(on leave) Reader
Momen, M N , BL Calc	Lectr
Kabir, L , LLB	Lectr
Sahabuddin, M , LLB Camb & Calc	
Ahmad, M , MA LLB	Temp Lectr
De, B K , MA BL Calc.	† Lectr
Khan, A , MA LLB	† Lectr
Hakim, M , MA	† Lectr
Mostafa, A T M , MA	† Lectr
Choudhury, A S , MA BL Calc.	† Lectr
Khondkar, A B , LLB	† Lectr
Sobhan, A	† Lectr
Rahman, S M S , MA	† Lectr
Ahmed, M U , MA LLB	† Lectr
Haque, S M H	† Lectr

Mathematics

		Noorazzaman, A H M, MA	Lectr
	Prof	Rashiduzzaman, M, MA	Lectr
Huq, S M A., MSc PhD Lond		Ahmad, M, MA PhD	Lectr
	(on leave) Reader	Ansuazzaman, M, MA	Temp Lectr
Rahman, M., MA PhD McG.	Temp. Reader		
Khalifa, A R., MSc Calc.	Lectr.		
Sarder, R A, BA Camb, MSc	Lectr		
Huq, M S, MA MSc	Lectr.		
Husain, D., MSc	(on leave) Lectr		
Rahman, A F M A., BSc Lond	Lectr.		
Rahman, M, MSc BA Camb.	Lectr.		
Sadeque, P I, MSc	Temp Lectr		
Husain, Q M., MA PhD	Lectr		
Hakim, A, MA PhD	Lectr		
Gaffur, A., MSc	(on leave) Temp Jr. Lectr		

Sanskrit, see Bengali**Sociology**

Karim, A K N., MA Col	Reader
Afsaruddin, M, MA Mch	Lectr
Fazal, M A, MA	Temp Fellow
Sn-aduddin, K A. M, MA	Temp Fellow
Naqi, S A, MA	Temp Fellow
Owen, Dr J E	Unesco Prof
Pirkei, T	†Visiting Prof
Langerhans, H.	

(on leave) Supernumerary Teacher

Persian and Urdu

Shadani, W H A, MA Pany., PhD Lond.	Prof.
Huda, M Z, MA Patna	Lectr.
Chaudhury, A M F. A, MA	Lectr
Siddiqui, A, MA PhD Alig	Lectr
Sabzwari, S S A, MA Calc & Agia,	
PhD	(on leave) Lectr.
Fauq, M H Q, MA	Temp. Lectr

Philosophy

Jilani, G., MA PhD Lond	Prof
Deb, G. C, MA PhD Calc.	Lectr
Fakhruzzaman, M, MA	Lectr
Rob, M. A, MA	Lectr.
Matin, A, MA	Lectr.
Khan, N N M B A, MSc Ray	Fellow
Ahmed, M	Fellow

Physics

	Prof
Ali, I., MEE N.Y., MSc PhD Lond	Reader
Chaudhury, A. M, MSc PhD Lond,	
FRMetS	Reader
Rahman, S M. F, MEE Purdue, MSc	Reader
Biswas, S C, MSc	Lectr.
Huq, M S, MSc McG & Dacca	Lectr.
Emran, M, MSc	Temp Lectr
Siddiq, A K M, PhD Sask, MSc	Lectr
Hussain, M A M M., MSc	(on leave) Lectr
Ahmad, S, MSc	Lectr
Islam, M, MSc	(on leave) Lectr.
Sen Gupta, H., MSc	Lectr
Kamal, A N, MSc	(on leave) Lectr.
Harun-ar-Rashid, A. M, PhD Glas, MSc	Lectr
Mesbahuiddin, S, MSc	Fellow
Hussain, Md V, MSc	Fellow
Roy, A K, MSc	Fellow

Political Science

	Prof
Chowdhury, G W, MA PhD Col	Reader
Chaudhury, M A, MA PhD Lond	Reader
Rahman, M., MA	Lectr
Razzaq, A, MA	Lectr
Ali, S M M, MA	Lectr.
Miah, N M, MA	Lectr

Soil Science

Ghani, M O, PhD Lond, MSc	(on leave) Prof
Karim, A Q M B, MSc Alig, PhD Lond	
	(on leave) Reader
Karim, A, MSc PhD Adel.	Temp Reader
Majlish, M A. K, MSc	Temp. Lectr
Huq, A K M F, MSc PhD McG	Lectr.
Choudhury, M S, MSc	Lectr
Bhuiya, M Z H, MSc	Lectr
Ali, H, MSc	Lectr
Islam, A., MSc	Lectr
Ahmed, Z U, MSc	Fellow
Idris, Md, MSc	Fellow
Anam, K, MSc ²	Fellow
1 Lab Asst	

Statistics

Husain, Q M, MA Calc, PhD	Prof
Maniruzzaman, A. N. M, MSc	Lectr.
Atiqullah, M, MA	Lectr.
Obaidullah, M, MSc	Lectr
Qamaruddin, M, MA	Temp Lectr
Ahmad, M M., MSc	Lectr
Mostafa, M G, MSc	Lectr
Rizia, Miss Syed, MSc	Lectr
Semuddin, M, MSc	Lectr
Ahmad, M U	Instr

Urdu, see Persian**Zoology**

Yousufzai, H K, MSc DPhil Alld,	
PhD Qu.	Reader
Shafiq, S A, MSc Alld, DPhil Oxon.	Lectr
Khan, A W, MSc Calc.	Temp. Lectr
Bhuiyan, A. L, MSc	Lectr
Haque, A K. M A, MSc PhD Nott	Lectr
Kabir, S M H, MSc	(on leave) Lectr
Khan, M A A, MSc	(on leave) Jr Lectr
Bashirulla, A K M	Fellow
Khatoun, Miss A	Fellow
1 Lab Asst.	

ADMINISTRATIVE AND OTHER STAFF

Inspector of Colls . A M Choudhury, MA
 Med Officer S Ahmed, MB Calc Addtl
 Med Officer. Capt S Ahmad, MB Calc. Asst.
 Med Officer M Mortaza, MB BS. Asst
 Registrar K C Chowdhury, BA Controller
 of Exams. M. R. Khan, MA Addtl Asst
 Controller of Exams . F Haq, BA Asst Controller
 & Sec to Vice-Chancellor A Z. Khan,
 MA Proctor . N Momen, BA Office-in-
 charge, Univ Students' Information Bureau
 K C Chowdhury, BA Dir of Phys Educn
 Major M Rahman, BA DPE *Mad* Phys
 Instrs M Ahmad, BA, K C Roy, J C Roy,
 BSc Accounts Officer S K. Rahmatullah, BA

Executive Engineer M Khaliuddin, BE.
 Steward M Dabiruddin Mesh Press Manager
 M Choudhury, BA Asst Librarian A R
 Mirdah, BA Jr Asst Librarian . K A M
 Shamsul Huda Mia, BA DptLibSc Electrical
 Engineer . Keshab Chandra Karmaker
 Provosts of Halls Salmullah Muslim Hall
 M. Huq, MA PhD *Lond* , Fazlul Huq Muslim
 Hall M Saifullah, MA Calc , BCom *Lond* ,
 Dacca Hall . M. Rahman, MSc PhD ; Jagannath
 Hall : G C. Deb, MA PhD Calc ; Iqbal
 Hall M Ahmed, MSc PhD Penn ; Women's
 Hall Mrs Akhtar Imam, MA *Lond* & *Dacca*
 Supt , Women's Hall : Mrs Jahanara Begum

CONSTITUENT COLLEGES

[IA, BSc(Engn), etc., after the name of a coll means that courses are provided there for
 Intermediate Arts, BSc(Engn), etc]

DACCA, *Ahsanullah Engineering College*, Ramna
 BSc(Engn), Dipl in engn Principal—W
 Ahmed, BSc Calc , MScEE PhD *Stan* , MIEE.
 60 other Teachers

DACCA, *College of Social Welfare and Research*
Centre, 84 Shantunagar MA in soc welfare
 Principal—A K Ahmadullah, MA MCom MSc
Lond 10 other Teachers

DACCA, *Dacca Medical College*, Ramna MB
 BS, condensed MB BS Principal—Lt -Col
 M. M Haque, MB 57 other Teachers

DACCA, *East Pakistan Agricultural Institute*,
 Tejgaon BAG, MAG Principal—F Ahmed,
 MS Ohio, MSc MA BT. 16 other Teachers

DACCA, *Govt College of Physical Education*

Dipl in phys educn Principal—Major M T
 Hossain. 8 other Teachers

DACCA, *Teachers' Training College*, Dhanmon-
 dai BED (group A), MED. Principal—M. O
 Ghani, DipEd *Lond* , MA BT. 16 other Teachers.

MYMENSINGH, *East Pakistan College of Veteri-
 nary Science and Animal Husbandry*, Keot Khali,
 Mymensingh. BSc(AH), LVS Principal—S M
 Ali, BSc Calc 30 other Teachers

MYMENSINGH, *Teachers' Training College* BED
 (groups B and C), MA in educn Principal—
 K A F M A Quasem, MA BT Calc , MSin
 Educn S.III 13 other Teachers

MYMENSINGH, *Women's Training College*. BED
 (group B) Principal—Miss Azzun Nessa, MED
Arizona, MA BT. 10 other Teachers

AFFILIATED COLLEGES

BARISAL, *B.M. College*. BA, BSc, BCom, IA,
 ISc, ICom. Principal—A K M. Kabir, MA
 42 other Teachers.

BARISAL, *Fazlul Huq College*, Chakhar. BA,
 IA, ISc, ICom. Principal—E Karim, MA
 MCom LLB. 15 other Teachers.

BARISAL, *Patuakhali College*, Patuakhali. IA,
 ICom Principal—A Ahmed, MSc 12 other
 Teachers

BARISAL, *Women's College*. IA Principal—
 Mrs. M. Kabir, MSc. 12 other Teachers

BARISAL (PIROJPUR), *H S. Suhrawardy College*
 IA, ICom Principal—A H. M A Qudus, MA
 9 other Teachers.

CHITTAGONG, *Chittagong College* BA hons.,
 BSc hons , BA, BSc, IA, ISc Principal—A. F M
 Muzaffar Ahmed, MA 46 other Teachers

CHITTAGONG, *Chittagong Night College* BA,

BCom, IA, ICom Principal—A A. R Karim,
 MA 31 other Teachers

CHITTAGONG, *Chittagong Women's College*. BA,
 IA. Principal—Miss Firdaus Ara Sabeth, MA
 19 other Teachers

CHITTAGONG, *East Pakistan Cadet College* IA,
 ISc Principal—Lt.-Col W M. Brown, MA
Camb 17 other Teachers

CHITTAGONG, *Govt College of Commerce*
 BCom, ICom. Principal—A S Khan Choud-
 hury, MA BT. 17 other Teachers

CHITTAGONG, *Islamic Intermediate College*
 IA, IIS Principal—S Rahman, MA 5 other
 Teachers

CHITTAGONG, *Laro College* LLB Principal—
 U N Siddiqui, BL Calc. 6 other Teachers

CHITTAGONG, *Sathama College*, Sathama. IA,

ICom, ISc Principal—A M Md Nasrullah Khan, MA Calc 9 other Teachers

CHITTAGONG (KANUNGOPARA), *Sir Asutosh College* BA, BSc, IA, ISc, ICom Principal—M L Nag, MA Calc 23 other Teachers

CHITTAGONG (NAZIRHAT), *Nazirhat College* IA, ISc, ICom. Principal—M B Ghani, MA 13 other Teachers

COMILLA, *Brahmanbaria College* BA, IA, ICom. Principal—A Azhar, MA 19 other Teachers

COMILLA, *Victoria College* BA, BSc, BCom, IA, ISc, ICom Principal—S Rahman, MA 45 other Teachers

DACCA, *Central Women's College* IA, BA Principal—Mrs B Mahmuda Nasir 18 other Teachers

DACCA, *Dacca City Night College* BA, BCom, IA, ICom Principal—N Ahmed, MA 13 other Teachers

DACCA, *Dacca College* BA, BSc, IA, ISc, ICom Principal—M U Ahamed, MA Tor 59 other Teachers

DACCA, *Eden Girls' College* BA, BSc, IA, ISc Principal—Mrs Zebunnessa Rahman, MA 47 other Teachers

DACCA, *Islamic Intermediate College* IIS Principal—A S Mahmood, MA LLB 10 other Teachers

DACCA, *Jagannath College* BA, BSc, BCom, IA, ISc, ICom Principal—A K Manzurul Haq, MSc Alg 54 other Teachers

DACCA, *Law College* Principal—Aleem-AI-Razee, MA PhD Lond, LLB 12 other Teachers

DACCA, *Narsingdi College*, Narsingdi BA, IA, ICom Principal—D M Azraf, MA 15 other Teachers

DACCA, *Notre Dams College* BA, IA, ISc Actg. Principal—Rev. W. L. Graham, MS *Notre Dams* 22 other Teachers

DACCA, *Quaid-i-Azam College*. BA, BSc, BCom, IA, ISc, ICom Principal—A M A R Fatmi, MA 44 other Teachers

DACCA, *Salmullah College* BA, BCom, IA, ICom Principal—K P Banerjee, MA Calc 12 other Teachers

DACCA (MANIKGANJ), *Devendra College* BA, IA, ICom Principal—A Majid, MA 12 other Teachers

DACCA (MUNSHIGANJ), *Haraganga College* BA, BCom, IA, ICom, ISc. Principal—Azimuddin Ahmed, MA Calc 21 other Teachers

DACCA (NARAYANGANJ), *Tolarang College* BCom, IA, ISc, ICom Principal—K. N Chakraborty, MA Calc 26 other Teachers

DACCA (TEJGAON), *Holy Cross College*. BA,

IA Principal—Sr Augustine Marie, MA *Loyola* 13 other Teachers.

FARIDPUR, *Quaid-e-Azam Memorial College*, Gopalganj IA, ICom Principal—H. Ahmed, MA 14 other Teachers

FARIDPUR, *Rajenda College* BA, BSc, IA, ISc Principal—S A F Waheed, MA. 23 other Teachers

FARIDPUR, *Srikrishna College*, Ramdia IA, ICom Principal—A Jalil Mia, MA 8 other Teachers

FARIDPUR (MADARIPUR), *Nazimuddin College* BA, IA Principal—A M Choudhury, MA 11 other Teachers

MYMENSINGH, *Ananda Mohan College* BA, BSc, IA, ISc, ICom. Principal—S B Hossain, MA 37 other Teachers

MYMENSINGH, *Bhupur College*, Bhupur IA Principal—K U Ahmed, MA Calc 6 other Teachers

MYMENSINGH, *Mumun Nisa Women's College* IA Principal—Miss Nurun N Begum, MA

MYMENSINGH, *Nawabad College* IA, IIS Principal—R Ahmed, MA BT 10 other Teachers

MYMENSINGH, *Netrokona College*, Netrokona IA, ICom Principal—T Ahmed, MA 11 other Teachers

MYMENSINGH (BHAIRAB), *Hajj Asmat College* IA, ICom Principal—A Ahmed, MA 7 other Teachers

MYMENSINGH (GATFORGAON), *Gafforgaon College* IA Principal—A U Malik, MA 6 other Teachers

MYMENSINGH (JAMALPUR), *Ashiq Mahmud College* BA, IA Principal—H Rahman, MA 14 other Teachers

MYMENSINGH (KAGMARI), *Moulana Muhammad Ali College*, Tangail IA, ICom Principal—A Jalil, MA 8 other Teachers

MYMENSINGH (KARATIA), *Saadat College*, Tangail. BA, BCom, IA, ISc, ICom. Principal—T Ahmed, MA 23 other Teachers.

MYMENSINGH (KISHOREGANJ), *Gusudayal College* BA, BSc, IA, ISc, ICom Principal—M Wasimuddin, MA 20 other Teachers

MYMENSINGH (TANGAIL), *Kumudini Girls' College* BA, IA Principal—Miss N A Hameed, MA Luch 8 other Teachers

NOAKHALI, *Chaumahm College* BA, IA, ISc, ICom Principal—T Hossain, MA 20 other Teachers

NOAKHALI, *Feni College*, Feni BA, IA, ISc, ICom Principal—G M A Mannan, MA 20 other Teachers.

SVLHET, *M.C. College* BA hons, BSc hons, BA, BSc, IA, ISc, ICom Principal—Md S Choudhury, MSc BT 45 other Teachers.

SYLHET, *M M College*. BCom, IA, ICom
Principal—P C. Goswami, MA Calc 13 other
Teachers

SYLHET, *Women's College* BA, IA Principal
—Mrs H. A. Choudhury, MA 9 other Teachers

SYLHET (HABIGANJ), *Brindaban College* BA,
BCom, IA, ICom Principal—M. Huq Choud-
hury, MA 19 other Teachers.

SYLHET (MOULVI BAZAR), *Moulvi Bazar College*.
IA, ICom. Principal—M A Qussem, MA 9
other Teachers

SYLHET (SUNAMGANJ), *Sunamganj College*. BA,
IA, ISC Principal—Capt K. Ahmed, MA 17
other Teachers.

TIPPERAH, *Chandpur College* BA, IA, ISC,
ICom Principal—A W Khan Choudhury, MA
BT Calc. 24 other Teachers.

TIPPERAH (PASCHIMGAON), *Navab Fawzunnisa
Islamic Intermediate College*. IA, ICom, IIS.
Principal—S Rahman, MA. 8 other Teachers

GENERAL INFORMATION

The Univ. was establd. in 1921 under the Govt. of India Act XVIII of 1920, which was based on the recommendations of the Calcutta Univ. Commission presided over by Sir Michael Sadler, as a unitary, teaching and residential univ. with a constitution similar in many respects to those of mod. English univs. Following the creation in 1947 of the province of E. Bengal as part of Pakistan, the E. Bengal educn. ordinance, 1947, was promulgated, by which the univ., without prejudice to its original character as a teaching and residential univ., was entrusted with sole authority to recognize and affiliate all educn. instns. in E. Bengal above matric. and high Madrasa standard. Accordingly, in 1947, the univ. affiliated 55 1st and 2nd grade colls. throughout the whole of E. Bengal, as well as several other instns.

With effect from the session 1961-62, the responsibility of arranging and conducting the inter. courses has been entrusted to the E. Pakistan sec. educn. bd., Dacca.

CONSTITUTION. The authorities of the univ. include the court, the executive council, the academic council and the facs.

The court consists of about 170 members, incl. *ex-officio* members, reps. of the registered grads., of the affiliated colls. and of assocns. approved by the chancellor, etc. It has the power of making and amending statutes, of considering and cancelling ordinances and of passing resolutions on the annual report and the annual accts. and financial estimates.

The executive council is the executive body of the univ. and consists, besides *ex-officio* members, of reps. of the court, of the affiliated colls., etc. Its main functions are to hold, control and administer the funds of the univ. and to regulate and determine all matters concerning the univ. in accordance with the Dacca Univ. Act, statutes and ordinances.

The academic council is the academic body of the univ. and consists, besides *ex-officio* members, of reps. of the affiliated colls., etc. Its main functions are to control and maintain the standard of instructn., educn. and exams.

Each of the 7 facs. has charge of teaching, courses of study and res. work, subject to the control of the academic council.

INCOME (1959-60). Rs. 3,962,495 (govt. grants, Rs. 1,900,000, fees, Rs. 940,536; press & publications, Rs. 155,454, misc., Rs. 340,428)

FACULTIES AND DEANS. *Agric.*, Principal F Ahmed, *arts*, Prof. A. B. M. Habibullah (Islamic hist. & culture), *educn.*, Principal M. O. Ghani, *engin.*, Dr. W. Ahmed, *law*, Prof. N. U. A. Siddiqui; *med.*, Lt.-Col. M. M. Huq, *sci.*, Prof. Q. M. Husain (stats.).

UNIVERSITY PRECINCT. The univ. area covers about a sq. ml. of fine parkland, incl. over 100 acres of playing fields, and lies about 1 ml. N.W. of the centre of Dacca city.

LIBRARIES, ETC. Univ. library over 160,000 vols. and about 25,000 Sansk., Bengali, Arabic, Urdu and Punthi MSS. Reading room. Separate sci. library. Each hall of residence has a library.

LABORATORIES. Bot., chem., geog., geol., phys., psychol., soil sci., stats., zool.

The usual **LANGUAGE OF INSTRUCTION** is English.

ADMISSION. Min. standard required for entry to degree courses is that of the univ. inter. exam. or equivalent.

FIRST DEGREES 3 yrs. [from 1960-61] from inter. (for both pass and honrs.)—BA, BCom, BSc, 3 yrs.—BAg., 4 yrs.—BSc(Engin.), 5 yrs.—BSc(AH), MB BS.

HIGHER DEGREES 1 yr.—BED; 2 yrs. (1 yr. for honrs. BA or BSc of the univ.)—MA, MA in educn., MSc; 2 yrs.—LLB, MCom, MAG, 3 yrs.—LLM. Also PhD, DLat, DSc, LL.D., open to grads. of 3 yrs.' standing, but grads. of other univs. must pursue res. in this univ. for 2 yrs.

DIPLOMAS AND CERTIFICATES. Dipl. in engin., 3 yrs.; licentiate in vet. sci. (LVS), 3 yrs.; dipl. in phys. educn., dipl. in military sci., each 1 yr., jr. & sr. proficiency cert. courses in elem. German, 1 yr.; cert. in geog., 1 yr.; IA, ISC, ICom and IIS, 2 yrs. each.

FEES. Tuition, per session BA (pass), BA honrs., BSc (pass), BCom, LLB, Rs. 120, BSc honrs., MA, MCom, Rs. 144, MSc, Rs. 180. Registration, Rs. 6 (res. students, Rs. 20), admission, 1 month's tuition fee; athletic, Rs. 5,

students' union, Rs 8, migration fee, Rs. 15; transfer fee, 1 month's tuition fee; enrolment of registered grads, Rs 10 (for life, Rs 100) Hostels - seat-rent varies from Rs 3 to Rs 6 p m including cost of light, water, med attendance, medicine and servants Cost of food about Rs 40 p m

ACADEMIC YEAR July to April, 3 terms Term dates (approx) July 18 to Sept 23, Oct. 18 to Dec 22, Jan 4 to April 22

TUTORIAL CLASSES are organized in all depts and all univ teachers participate under the control of the hds. of depts and provosts.

RESIDENCE Students reading in the univ itself must live either in one of the halls of residence or under spec. approved conditions. Halls for Muslims Salmullah Hall (accomm. for 400 students), Fazlul Huq Hall (370), Iqbal Hall (258), for non-Muslims Jagannath Hall (160), for all students Dacca Hall (300) Women Students' Residence (33) For provosts, see p 738 Some univ teachers live in houses within the univ area

STUDENT HEALTH SERVICE. On admission to the univ. for the first time each student is medically examined All students receive free med attention Resident students also receive med. care in the halls 1 med officer, 2 asst med officers and 1 pt-time lady med officer.

PHYSICAL EDUCATION. After exam. by the med. officer, each student must undergo regular courses of phys. educn. in the well-equipped gymnasium. Coaching is also given in various sports.

THE STUDENTS' INFORMATION BUREAU assists students to secure admission to foreign univs. and other insts. The bureau library contains up-to-date calendars, handbooks, pamphlets and prospectuses of foreign educn. and technical insts. for reference by students.

UNIV OFFICERS' TRAINING CORPS. One bn., commanded by Major M. Rahman. Adjutant, Capt M A Haq

PUBLICATIONS. *Prospectus* (free); *Annual Report* (free); *Syllabuses and Bulletins*, various prices, *Calendar*, Rs 10; *Dacca Univ. Studies* (twice p a), Rs 7

UNIVERSITY PRESS In addn. to the ordinary printing work of the univ., the press undertakes, under the direction of the bulletin cttee, the publication of theses and other original work of the teaching staff and res students, and of the univ. selections in Engl & Bengali for inter. and degree courses *Postal Address* The Press Manager, Dacca Univ. Press, Ramna, Dacca.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS *Bldgs completed* Iqbal hall, teachers' trg inst, 2nd storey over geog. bldgs for accomm of dept of geol, semi-permanent bldg for office and store-room of dir of phys educn

RESIGNATIONS M M Hoque (pol. sci).

HONORARY DEGREES *LLD*—FM Md Ayub Khan, pres. of Pakistan, HE G A. Nasser, pres, United Arab Republic.

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	37,611	—
Women	2,969	—
Total	40,580	—

The figures above relate to students in constituent (2499) and affiliated (34,957) colls. and in the univ proper (3124)

Distribution by Faculties *Agric*, 419, *arts*,

26,948; *educn*, 412, *engin*, 921, *law*, 1369; *med*, 747, *sci*, 9764 Total 40,580

Included in the figures above are —

Intermediate students, 28,326

Postgraduate students, 1191

New admissions to the univ. proper, 1888

Students from other countries, 28 (Country from which largest number came. Ceylon, 13)

DEGREES AWARDED (1959-60) *BAG*, 29, *BSc* (AH), 11; *BA* (pass), 1117, *BA* (hons.), 198, *MA*, 383, *BCom*, 369, *BCom* (hons.), 28, *MCom*, 50, *BSc* (pass), 375, *BSc* (hons.), 53; *MSc*, 122; *BE*, 212; *MA* in educn, 14, *MAG*, 3, *LLB*, 95, *MB BS*, 167, *MB BS* (condensed), 37, *BSc*(Engin), 153 Total number of first degrees awarded, 2537

DIPLOMAS AWARDED (1959-60) *Lic* in vet. sci, 27, *lic* in civil engin (*LCE*), 152, *phys educn*, 16.

CERTIFICATES AWARDED (1959-60). *Inter arts*, 1984; *inter sci*, 1199, *inter comm*, 782, *Islamic inter. studies* (*IIS*), 13, *military sci*, 34

UNIVERSITY OF KARACHI*

Founded 1950

Postal Address Country Club Road, Karachi, West Pakistan

Telephone 43012-5

CHANCELLOR—THE PRESIDENT OF THE REPUBLIC OF PAKISTAN (*ex officio*)

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION IN THE CENTRAL GOVERNMENT (*ex officio*)

VICE-CHANCELLOR—I H QURESHI, MA PhD *Camb*

HONORARY TREASURER—

REGISTRAR—Lt -Col S F H ZAIDI

DEPUTY REGISTRAR—S M NAJMUDDIN, MA *Patna*

LIBRARIAN—

PROCTOR—Major A HASSAN

PROVOST—A. L. SIDDIQI

UNIVERSITY TEACHING STAFF

Arabic

Yusuf, S M., PhD *Alig* Reader
Haq, M M Reader
Arshad, H S R A., MA *Delhi* Lectr

Bengali

Syed, A H A A., MA *Dacca* Reader
Farooq, M, MA *Dacca* (on leave) Lectr

Botany

Hasnain, S Z., MSc *Alig*, PhD *Minn* Prof
(on leave) Reader
Naqvi, S H Z, MSc *Alld*, PhD *Qu* Lectr.
Ali, S I, PhD (on leave) Lectr
Nizarnuddin, M, PhD Lectr
Ahmad, R, PhD Lectr
Malik, M A B, MSc Lectr
Qadir, S A., MSc Lectr
Quvaishy, Mrs H B, MSc Lectr
4 Demrs

Business Administration, Graduate School of

Breuninger, H R, MBA *Texas* Chief Adviser
Mead, R R., AB PhD *Penn* (Marketing) Adviser
Grimsley, G, AM PhD *S Calif.* (Personnel Management) Adviser
Henningsen, F. A., MA *Montana* (Acctg) Adviser
Rydell, F, MA *Montana* (Acctg) Adviser
Henemer, S. M., MA *Penn* (Stats) Adviser

Biesiot, P G, MBA *Corn*, MSc *Nebraska* (Indust Management) Adviser
Mukhtar, I. A, MA *Alig & Col*, PhD Reader
Sycol, A, MA PhD *Penn* (on leave) Reader
Uzair, M, MA *Penn* (on leave) Reader
Khan, T M, MA *Georgetown* (Stats) Reader
Khan, M A, MA *Agra*, MBA *Penn* (on leave) (Bus. Admin.) Reader
Iqbal, M, PhD *N Carolina* Reader
Husain, M., MA *MBA* Lectr
Zaheeruddin, MA *LLB Alig* Lectr
Rahman, R., MA *LLB Nag* Lectr
Syed, A H, PhD *Penn* (Pub Admin.) Lectr
Hasnat, A, MCom *Tor* Lectr
Farooqi, Mrs Anisa, MA Lectr
Habib, W, MBA Lectr
Zamul Abedeen, S, MA Lectr
Ali, M, MA Lectr
Saeed, K. M., MA *MBA* Lectr
Qureshi, M A, MBA Lectr
1 Demr, 2 Fellows

Chemistry

Siddiqi, R H, MSc PhD *Alig*, DPhil *Oxon.* Prof
Haq, A K S, MSc *Dacca*, DIC, (on leave) Reader
PhD *Lond* Reader
Ahmad, S., MSc *Alig* Lectr.
Ahmad, N, MSc *Pary*, PhD *Manc* Lectr.
Salam, M. A., MSc *Agra* Lectr.
4 Demrs

Economics

.. Prof
Fareed, Q M., MA *Camb.* Reader

* Member of the Association of Universities of the British Commonwealth

Kadri, A H, MA <i>Alg</i>	Lectr.	Persian	
Siddiqi, Q H, MA LLB <i>Alg.</i> (on leave)	Lectr	Sarwar, G, MA PhD <i>Alg.</i>	Reader
Chowdhry, M K, BSc <i>Lond</i>	Lectr	Imam, M., MA <i>Patna</i>	Lectr.
Rahman, M, MA <i>Patna</i>	Lectr	Khan, A. A., MA BT <i>Alg</i> (on leave)	Lectr.
1 Fellow			

English

Ashraf, S A N A, MA <i>Camb</i> (on leave)	Reader	Ahmad, M. M., MA <i>Alg</i> , PhD <i>Marburg</i>	Prof
Husain, S. M., MA <i>Patna</i> (on leave)	Lectr.	Ansari, T. H., MA <i>Alg</i>	Lectr
Jamil, Mrs. Maya, MA <i>Luck.</i>	Lectr.	Khan, A R, MA <i>Alg.</i>	Lectr
Kureshi, Mrs. Maki, MA <i>Smith, BA</i>	Lectr.	Ali, M. I., MA <i>Bom</i>	Lectr
Kibriya, Mrs. N., MA <i>Dacca</i>	Lectr		
Ahmad, I, MA	Fellow		
4 other Fellows			

Geography

.....	Reader	...	Prof.
Ahsan, S Z, MSc <i>Alg</i>	Lectr.	Karam, S M, MSc <i>Alg.</i> , PhD <i>Tor.</i>	Reader
Siddiqi, S I, MA PhD <i>Alg</i>	Lectr.	Tirmiza, S M A., MSc <i>Alg</i> , DPhil <i>Oxon</i>	Reader
Siddiqi, M I, MA <i>Alg</i> , DSc <i>Kiel</i>	Lectr	Khan, M Aslam, DIC, PhD <i>Lond</i>	Reader
4 Demrs		Hasan, S B, MSc <i>Alg</i> (on leave)	Lectr
		Hussain, S A, MSc	Lectr
		7 Demrs	

Geology

Khuda, M, MSc <i>Calc</i> , PhD <i>Lond</i>	(on leave) Lectr	Political Science	
Valiullah, M, MSc <i>Wis</i>	Lectr	Ahmad, I, MA <i>Luck.</i>	Reader
Husain, M A, MSc <i>Alg.</i>	Lectr	Kadri, W., MA <i>Alg</i>	Lectr.
4 Demrs		Salahuddin, C A, MA <i>Trav & Col.</i>	Lectr
		Husain, S A, MA	Lectr
		1 Fellow	

History

.....	Prof.	Psychology	
Islam, R, MA <i>Alg</i> , PhD <i>Camb.</i>	Reader	Aslam, Q. M., MA <i>Pary. & Camb</i>	(Moral Sci.) Prof.
Rahim, A., PhD <i>Lond.</i> , MA	Actg. Reader	Zuberi, H, MA <i>Alg</i>	Lectr
Siddiqi, M. H., MA <i>Alg</i> , PhD <i>Manc.</i>	(on leave) Lectr.	Rehmatullah, Mrs Sourayya	Temp. Lectr
		1 Demr, 1 Fellow	

International Relations

Chaudhri, M. A., MA <i>Oregon</i> (on leave)	Lectr.	Sociology	
Kadeer, A. A., MA <i>Osm.</i> , PhD <i>Paris</i>	Lectr	Jilani, M S	Lectr -in-Charge
Hasan, Miss Khurshid, PhD	Lectr		

Islamic History

Siddiqi, A H, LLB <i>Alg</i> , PhD <i>Lond</i>	Reader	Statistics	
Saleem, M, MA LLB PhD <i>Alg</i>	Lectr.	Hurai, A	Lectr
Hashmi, Y A, MA LLB <i>Alg</i> , PhD	(on leave) Lectr	Urdu	
Ansari, Z I, MA <i>McG & Karachi</i>	Lectr	Siddiqi, A L, MA PhD <i>Alg</i>	Reader
		Ali, M H S S, MA <i>Mys.</i> , PhD <i>Luck.</i>	Lectr.
		Qayyum, A., MA <i>Luck</i>	Lectr.
		Kashfi, A. K., MA	Lectr
		1 Fellow	

Journalism

Shanif-Al-Mujahid, MA <i>Madr</i>	Lectr		
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Mathematics

.....	Reader	Zoology	
Hanafi, A R., MSc <i>Alg.</i>	Lectr	Qadri, M A H, DSc <i>Alg</i> , PhD <i>Alg.</i> & <i>Camb.</i> , FPAS	Prof.
Zaidi, N H, MSc <i>Alg</i>	Lectr	Mohiuddin, A, MSc <i>Osm</i> , PhD <i>Lond.</i>	(on leave) Reader
Qureshi, M. A. R., MA <i>Edin & Karachi</i>	Temp. Lectr.	Tufail, M, MSc <i>Alg</i> , PhD <i>Lond</i>	Lectr.
		Tirmiza, Mrs S. M, DPhil <i>Oxon.</i>	Lectr.
		Haqar, S. M	Lectr.
		Ahmad, M. M.	Temp Lectr
		6 Demrs, 1 Fellow	

Microbiology

Anwar, A A., PhD <i>Minn</i> , MPH <i>Johns H</i>	Reader		
Siddiqi, M, MSc	(on leave) Lectr		
4 Demrs			

ADMINISTRATIVE AND OTHER STAFF

Controller of Exams. M A Rahim, BA
Asst Registrar (Exams) : A A. Quraishi, BA
Algh Asst Registrar (General) S A Hameed,
MA Algh Asst Registrar (Acad) . Dep

Librarian A Moid, MA DipLib Pay (on
leave) Chief Accountant. Inspector
of Colls : ..

RECOGNIZED TEACHING COLLEGES

(All these colleges are in Karachi)

[IA, BA, etc., after the name of a coll means that courses are provided there for
Intermediate Arts, BA, etc.]

A.P.W.A. GIRLS' COLLEGE, Lalukhet. IA, ISc,
BA. Principal—Mrs Siddiqi, MB 7 other
Teachers

CENTRAL GOVT COLLEGE FOR MEN, Nazimabad
IA, ISc, BA, BSc Principal—A Baten 35
other Teachers

CENTRAL GOVT COLLEGE FOR WOMEN, Freire
Rd. IA, ISc, BA, BSc Principal—Mrs Zinat R
Ahmad, MA Luck., CertEd Camb 51 other
Teachers

CENTRAL GOVT TEACHERS' TRAINING COLLEGE,
Nazimabad BED, MEd Principal—Q H K
Bakhtia 1, DipEd Lond & Camb, MA 17 other
Teachers

COLLEGE OF HOME ECONOMICS, near National
Stadium IA, BA (Home Econ) Principal—Mrs.
Sushila H Lall, MA. 27 other Teachers

D. J. SIND GOVT SCIENCE COLLEGE. ISc, BSc
(pass) Principal—L A D'Souza, BA MSc. 38
other Teachers.

DOW MEDICAL COLLEGE, Hospital Rd. MB
BS. Principal—M A Shah, MS Pay. 94 other
Teachers

ISLAMIA COLLEGE, Clayton Rd IA, ICom, BA,
BCom Principal—G M Khan 54 other
Teachers.

JAMIA COLLEGE, Malir. IA, ISc, ICom, BA,
BSc, BCom. Principal—S M Shafi, BSc Lond
33 other Teachers

JINNAH COLLEGE, Nazimabad IA, ISc, ICom,
BCom Principal—I M Khan, MA. 17 other
Teachers

KARACHI COLLEGE FOR WOMEN, Princess St
IA, BA Principal—Mrs M Qureshi, MA 24
other Teachers

NATIONAL COLLEGE IA, ICom, BA, BCom
Principal—H Adil, MA. 20 other Teachers

N.E.D. GOVT. ENGINEERING COLLEGE, Burns
Rd. BE (civil, mech. and electr), dipl in engin.
Principal—S M Alam, BSc Manc, MICE 37
other Teachers

OSMANIA COLLEGE, Nazimabad IA, ICom,
BCom Principal—S A Hashmi, MA MCom
LLB 14 other Teachers

P E C H INTERMEDIATE COLLEGE IA, ISc
Principal—Begum Majid Malik

ST JOSEPH'S COLLEGE FOR WOMEN, Saddar
IA, ISc, BA, BSc Principal—Sister Mary Emily,
BA DipEd Lond 27 other Teachers

ST PATRICK'S COLLEGE, Saddar IA, ISc,
ICom, BA, BCom Principal—Rev D'A A
De'Souza, BE Bom, MEd MSc Wash 16 other
Teachers

SIND GOVT. COLLEGE OF COMMERCE AND
ECONOMICS, Burns Rd ICom, BCom. Principal
—R Rahman. 15 other Teachers.

SIND MUSLIM COLLEGE, Strachen Rd IA,
ISc, ICom, BA, BSc, BCom, MA Principal—
S A Kohathi 85 other Teachers

SIND MUSLIM LAW COLLEGE, Strachen Rd.
LLB Principal—H. A. Rahman 16 other
Teachers

SIR SYED GIRLS' COLLEGE, Nazimabad IA,
ISc, BA Principal—Mrs. Umme S Zaman,
MA 35 other Teachers

SYED RAZA ALI COLLEGE, Britto Rd IA, ISc,
ICom, BA, BCom Principal—S R K Rizvi,
MA LT 40 other Teachers

URDU COLLEGE, Princess St IA, ISc, ICom,
BA, BSc, BCom, LLB (Urdu is the medium of
instruction) Principal—Col Ataur Rahim 55
other Teachers

GENERAL INFORMATION

The Univ. of Karachi Act was passed by the
central legislature in 1950, but the univ. did not
come into existence till June 1951. It is an
affiliating, examining and teaching univ., and its

territorial jurisdiction extends only over Karachi
Hons and postgrad teaching and res directly
under the control of the univ have been started
in several depts. (see above)

FACULTIES AND DEANS *Arts*, Dr A. H. Siddiqi (Islamic hist.), *sci*, Prof M. A. H. Qadri (zool.). The posts of dean of the fac of *comm*, of *educn*, of *engin.* & *technol.*, of *Islamic learning*, of *law*, and of *med* are vacant.

UNIVERSITY PRECINCT The new campus (foundation stone laid in 1957 by the president of Pakistan) is on the Country Club Rd., and consists of 1279 acres allotted by the govt of Pakistan. The univ. has now moved to this new campus, among the bldgs already completed there are those for the admin block, fac of arts, auditorium, phys & chem depts as well as temp blocks for other sci depts. It is proposed to complete the construction programme in 3 phases, each of 5 yrs' duration.

LIBRARY 82,000 vols. Also 25 dept libraries to provide facilities for hons. and postgrad study and res.

TEACHING HOSPITAL Civil H, Karachi.

THE GRADUATE SCHOOL OF BUSINESS ADMINISTRATION was formerly known as the Inst of Pub and Bus Admin, establd in 1955. GSBA became separate entity under Univ of Karachi in 1961, financed by govts of Pakistan and U.S.A., it aims to help improve quality of bus admin in Pakistan through educn, trg, res and consultation programmes (incl provision of service to bus community and assembly and publishing of suitable material). Univ of S. California acts in advisory capacity. GSBA offers courses for MBA of Univ of Karachi and in-service programme for persons in employment who cannot study full-time. Minimum admission requirement: BA, BSc or ICom.

BUREAU OF (URDU) COMPOSITION, COMPILATION AND TRANSLATION The purpose of the bureau is (1) to standardize, compile and publish Urdu technical terms in all branches of learning, espec sci, (2) to produce and translate text-books in Urdu, and (3) to translate classics from foreign langs into Urdu and vice versa. Dir (with status of prof): Major Aftal Hassan.

ADMISSION Min qualif for entrance to the univ other than professional courses is a pass at high sch or such other exams held under the auspices of a univ or public bd. as are recog by the univ.

FIRST DEGREES 2 yrs—LLB, 3 yrs (post-inter)—BA pass & hons, BSc pass & hons, BCom, BHE, 3½ yrs—BE, 5 yrs—MB BS.

HIGHER DEGREES 1 yr after bachelor's degree—BED, 2 yrs after bachelor's degree—MA, MSc, MEd, MBA, 2 yrs after master's degree—PhD.

DIPLOMAS 1 yr—journalism, library sci.

CERTIFICATES 9 mos—Bengali, French, German, Italian, Spanish.

FEES. Univ exams, from Rs 30 to Rs. 100, tuition, Rs 12 to Rs 20 p.m (for 10 months p.a.).

ACADEMIC YEAR 3 terms Aug 15–Oct 23, Nov 1–Dec 24, Jan 9–May 14.

LANGUAGE OR INSTRUCTION English in all subjects at all exams. Urdu in arts up to MA, in sci up to inter and in comm up to BCom.

RECREATION. The univ sports bd organizes the activities of the univ. in this field. Inter-collegiate sports are arranged for hockey, cricket, badminton, football, volley-ball, tennis, table tennis, swimming and athletics.

PUBLICATIONS. Annual *Courses of Study* for all exams, *Annual Report*, *Karachi Univ Magazine* (annual); *Karachi Univ Students' Union Magazine* (annual), univ. sci. teachers, in collaboration with other scientists of Pakistan, publish *The Scientist* (bi-annual); the dept. of econ and comm publishes the *Federal Economic Review* (quarterly), the dept. of Bengali publishes the *Bengali Literary Review* (bi-annual), *Venture* (Engl lang and lit quarterly review), *Jareeda* (Translation Bureau journal), Urdu translation of *Sulukul-Malik-fi-tadbiri-mamalik* (1st book of pol sci in Islam).

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	999	97
Women	431	16
Total	1430	113

In addition, there were 24,708 students in recognized colls.

Distribution by Faculties *Arts*, 574, *sci.*, 856. Included in the figures above are—

Postgraduate students, 985.

New admissions, 1369 (full-time, 1256, part-time, 113).

2 B 2

Students from other countries, 23.

DEGREES AWARDED (1959-60) BA (pass), 837, BA (hons), 14, BHEc, 24, MA, 242, BSc (pass), 511, BSc (hons), 71, MSc, 89, BCom, 376, MCom, 3, BE, 90; LLB, 160, MBA, 74, MPA, 9; MB BS, 154, BE (mech & electr.), 38, BE (civil), 100, PhD (arts), 1.

DIPLOMAS AWARDED (1959-60) Journalism, 16, library sci, 21, *engin.* civil, mech & electr., 422.

CERTIFICATES AWARDED (1959-60) German lang, 25, Spanish lang, 8, French lang, 77, Bengali, 3, Italian, 12.

UNIVERSITY OF THE PANJAB*

LAHORE

Founded 1882

Postal Address · Lahore, West Pakistan
Cables and Telegrams · University, Lahore
Telephone (Registrar) Lahore 3747

PATRON—THE PRESIDENT OF PAKISTAN (*ex officio*)
CHANCELLOR—THE GOVERNOR OF WEST PAKISTAN (*ex officio*)
VICE-CHANCELLOR—Professor T. M. KHAYAL, MA
REGISTRAR—M. BASHIR, BSc Edin
HONORARY TREASURER—A. ALI SHAH
LIBRARIAN—A. RAHIM, BLS Ton., MA

TEACHING STAFF

[†=Part-Time]

[(U)=post maintained entirely by the Univ; (DSC)=Dyal Singh Coll, (EngC)=Govt. Coll of Engin & Technol, (FCC)=Forman Christian Coll, (GC)=Govt Coll., (HCC)=Hailey Coll of Comm; (IC)=Islamia Coll, (ICW)=Islamia Coll for Women, (IHPM)=Inst of Hyg. & Prev. Med; (KEMC)=King Edward Med Coll; (LMTC)=Lady MacLagan Trg Coll, (LWC)=Lahore Coll for Women, (MAOC)=Muhammadan Anglo-Oriental Coll.; (RL)=Regional Laboratory]

Arabic		Khawaja, S. D., MSc <i>Algh</i>		Reader (U)
Abdullah, S. M., MA DLitt		Rashid, A. A., MSc(Tech) BT	Sr. Lectr. (U)	
Principal, Prof, Hd of Dept. (U)		Qureshi, A. K., MSc(Tech) PhD	Sr. Lectr. (U)	
Elahi, R. M. N. E., PhD <i>Camb & Pany</i>		Bandey, A. H., MSc(Tech)	Lectr (U)	
MA	Reader (U)	Tanweer, A. K., MSc(Tech)		
Sarun, A. S., Fazil <i>Al Ashar</i> , HP HA	Maulvi (U)		(on leave) Lectr. (U)	
Noor-ul-Hasan, HA	Lectr (U)	Shami, M. D., MSc(Tech)	(on leave) Lectr (U)	
Malik, Z. A., MA	Lectr (U)	Dim, I. M., MSc(Tech)	(on leave) Lectr (U)	
Hassan, M. N., HA	Lectr. (U)	Qureshi, A. H., MSc(Eng) Lond	Lectr. (EngC)	
Khalil, M. F. H.	Visiting Prof	Hussain, A., PhD Lond, BSc(Engg)	Lectr. (EngC)	
Astronomy		Ahmad, M., BScEngg <i>Algh</i>	Lectr. (EngC)	
Zia-ud-Din, M., MA <i>Algh</i> , PhD <i>Wales</i>		Naseer, M., MSc(Tech)	Lectr (IC)	
Curator of Observatory, Hd. of Dept. (U)		Safdar, M., MSc	(on leave) Lectr (U)	
Bhatti, M. A., MSc	Lectr (U)	Ijaz, H., MSc	Lectr (U)	
Rizvi, S. M. H., MA	Lectr (U)	Mian, M. A., MSc(Tech)	Lectr (U)	
Botany		Pikka, H., MSc(Tech)	Lectr (U)	
Lodhi, S. A., MSc <i>Corn & Pany</i>		Romani, M. N., MSc(Tech)	Lectr (U)	
Reader, Hd of Dept. (U)		Badar, T. A., MSc(Tech)	Lectr (U)	
Hamid, A., MSc	Sr. Lectr (U)	Hussain, A.	†Lectr. (EngC)	
Sheikh, K. H., MSc	Lectr. (U)	Qureshi, A. H.	†Lectr. (EngC)	
Sheikh, M. Z., MSc PhD	Lectr. (U)	Khan, W. A.	†Lectr. (EngC)	
Abidin, Z., DPhil MSc	Lectr. (U)	Jilani, S.	†Lectr.	
Ifthakhar, A., MSc	(on leave) Lectr (U)	Chaudhry, A. G.	†Lectr (U)	
Chemical Technology (Institute of)		Azam, M. A.	†Lectr. (GC)	
Ahmad, N., DScTech <i>Munich</i>		Badr-ud-Din	†Lectr. (RL)	
Prof., Dir of Inst. (U)		Hamid, N. A.	†Lectr. (IC)	
		Nasir, M.	†Lectr. (IC)	
		Ibrahim, M.	†Lectr (HCC)	

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Taj, A. H. †Lectr (MAOC)
 Shaifi, M. †Lectr (MAOC)

Chemistry (Institute of)

Badaruddin, MSc PhD Dir of Inst (U)
 Chughtai, M I D, MScTech PhD *Manc*,
 FRIC Reader (U)
 Faseeh, S A., MA MSc PhD *Luck* Sr Lectr (U)
 Hussain, F, MSc PhD *Lond* Sr Lectr (U)
 Hussain, A, MSc PhD *Lond* (on leave) Lectr (U)
 Rehman, R, MSc PhD *Lond* Lectr (U)
 Tufail, M, MSc (on leave) Lectr (U)
 Nazeeri, M A, MSc (on leave) Lectr. (U)
 Nabi, G, MSc Lectr (U)
 Qazi, A R, MSc Lectr (U)

Economics

Akhtar, S M, MA PhD *Lond*
 Prof, Hd of Dept (U)
 Abbas, S A., MA MSc LLB *Alg*, MSS
 PhD *Inst for Soc Studies (The Hague)*
 Reader (U)
 Aurkzai, A A K, MA Lectr (U)

Education and Research (Institute of)

Jung, C W, PhD Dir (U)
 Stoner, L. H, MA PhD (U)
 Mccandless, B R, MA PhD (U)
 Khatoon, Z Z, MA BED Lectr (U)
 Qmar, Mrs Z, MA BED Lectr (U)
 Din, M, MA BED Lectr (U)
 Malik, D M, MA BED (on leave) Lectr (U)
 Shaukat, Mrs N, PhD *Lond & Panj*,
 MA Lectr (U)

Fine Arts

Ahmed, Mrs. Anna Molka
 Reader, Hd of Dept (U)
 Iqbal, K., DipFineArt *Lond*, BA Sr Lectr (U)
 Afzal, Mrs Anwar, MA DFA
 (on leave) Lectr. (U)
 Malik, Mrs Zalkia, MA DFA Lectr. (U)
 Shamas, M, BA †Lectr (U)
 Mazhar, Mrs. T., MA DFA †Lectr. (U)

French, see Mod Langs

Geography

Ahmad, Kazi S, MA LLB *Alg*,
 PhD *Lond*, Prof, Hd of Dept. (U)
 Kureshy, K. U, MA *Alg*, PhD *Lond &*
Panj Reader (U)
 Elahi, Miss Maryam K, PhD *Lond & Panj*,
 MA Sr Lectr. (U)
 Abbasi, A. A., MA Lectr. (U)

Geology

Martin, N R, AKC, BSc PhD *Lond*.
 Sr. Adviser, Unesco Mission, Hd of
 Dept. (U)

Marks, P., DrPhilGeol Drs *Unescht*
 Palaeontol. Expert, Unesco Mission (U)
 Shams, F A, BA *Camb*, MSc Sr. Lectr. (U)
 Latif, M A, MSc *Lond & Panj* Lectr (U)
 Ali, M., MSc Lectr (U)
 Ahmad, A, MSc Lectr. (U)
 Siddiqui, S F A, MSc Lectr (U)
 Saleem, Z. A, MSc Lectr (U)
 Rahman, A, MSc Lectr. (U)

German, see Mod Langs.

History

Hyde, H M, MA DLat *Lond* Hd of Dept. (U)
 Zafarul Islam, MA PhD (on leave) Lectr (U)
 Agha, N A, MA Lectr (U)
 Qureshi, A H, MA PhD Lectr. (U)
 Abbas, S A, MA Lectr (U)

International Affairs

Husain, D, MA *Alg & Panj*, LLB
 Prof, Hon Hd of Dept (MAOC)
 Wheelless, C M, MA PhD *Georgetown*
 †Lectr (FCC)
 Khan, B A, MA †Lectr (U)
 Ali, S, MA †Lectr. (U)
 Akhtar, S. M., MA PhD *Lond*. †Lectr (U)

Islamic Studies

Siddiqui, A D, MA LLB
 Reader, Hd of Dept. (U)
 Khan, Q D, MA BSc BT Sr Lectr (U)
 Malik, M A, MA Lectr. (U)
 Chaghatat, M A, MA DèS *L Paris* †Lectr (U)
 Ali, B, MA PhD *Berl* †Lectr (U)
 Ahmad, Y H, MA †Lectr (U)

Japanese Language

Sawa, E, BA (U)

Journalism

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 Khursheed, A. S., PhD *Amst.*, MA JD
 Sr Lectr (U)
 Ahmad, J, MA Lectr. (U)
 Sadiq, M, MA PhD Lectr. (U)
 Zahoor-ud-Din, MA PhD Lectr (U)
 Qureshi, W, MA PhD Lectr. (U)
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 Kaleem, M. A., MA Lectr (U)
 Ahmad, M., MA Lectr. (U)
 Wahla, A. R., MA *Calif*. Lectr (U)

Language Unit

MacCarthy, P., MA *Camb* Prof. (U)
 Barker, P R, BA PhD *Calif* Reader (U)
 Gethin, R H. Lectr. (U)

Mathematics

Manzur, H., MA PhD *Durh*
 Reader, Hd. of Dept. (U)

Bhatti, S U., MA Lectr (U)
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 Kazi, M H, MA Lectr (U)
 Chawla, L. M., MA DPhil *Oxon.* †Lectr (GC)
 Roomani, F D A, MA †Lectr (DSC)
 Rashid, S. A., MA †Lectr. (IC)
 Elahi, M M, MA †Lectr (IC)
 Bhatti, M A, MSc †Lectr (U)
 Hafiz, G M, MA Lectr (U)
 Saleem, B. A., MA Lectr (U)
 Riaz-ud-Din, MA PhD *Camb*
 Reader, Phys. Dept (U)

Modern Languages

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 Schwankl, P., DPhil Reader, Hd. of Dept (U)
 Butt, A A., DipEsdHisp *Madrid*
 (on leave) (Spanish) Sr. Lectr, Hd of
 Dept (U)
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 (Turkish) †Lectr., Hd of Dept (U)

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 Prof., Hd. of Dept (U)
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 Salahuddin, MSc Lectr (U)
 Ali, G, MSc (on leave) Lectr (U)
 Ashraf, M., MSc Lectr (U)
 Shah, A U, MSc Lectr (U)
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 Hamid, A., MB BS PhD *Lond* †Lectr. (KEMC)
 Aziz, A., MB BS PhD *Lond* †Lectr (KEMC)
 Aziz, A., MB BS DPH PhD *Lond*
 †Lectr (IHPM)
 Qureshi, A K, MSc PhD *Lond* †Lectr (U)

Physics

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 Hussain, S. S, MSc Lectr (U)
 Toor, M. I, MSc Lectr. (U)
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 Beg, H A. †Lectr (IC)

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Syed, A H., MA *Chic.*, PhD *Penn* Reader (U)
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 Shaikh, M A, MA LLB Lectr. (U)
 Chughtai, M L D, MA DPhil *Oxon.* Lectr. (U)
 Aslam, K M, MA †Lectr (IC)
 Zakriya Nasim, MA †Lectr (FC)
 Wheelless, C M, MA PhD *Georgetown*
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 Hamid, A, MA PhD †Lectr (GC)

Social Work

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 Ashraf, M S., MA MSW Lectr. (U)
 Ahmad, B., MA Lectr
 Ullah, Mrs Qamar Ata Lectr (U)
 Shah, A, MA Lectr. (U)
 Malik, M A. Lectr (U)
 Abbas, Mrs. R †Lectr. (U)

Sociology

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 Ahmed, M T., MA PhD Sr. Lectr (U)
 Fayyaz, M, MA (on leave) Lectr (U)
 Gardezi, H N., MA Lectr (U)
 Baqai, S D., MA Lectr (U)

Spanish, see Mod Langs.**Statistics (Institute of)**

Zia-ud-Din, M., MA *Alg*, PhD *Wales*
 Prof., Dir of Inst (U)
 Munir, M., MA Lectr. (U)
 Hassan, F, MA Lectr (U)
 Anwar, S M, MA (on leave) Lectr (U)
 Beg, M M A, MA Lectr. (U)

Turkish, see Mod. Langs**Urdu**

Abdullah, S M, MA MOL DLitt
 Prof, Hd of Dept (U)
 Brelvi, E., MA PhD *Luck.* Sr Lectr (U)
 Azim, V., MA *Alld* Sr Lectr (U)
 Hussain, G, MA PhD Lectr (U)

Zoology

Ahmad, M., MSc *Alg*, PhD *Chic*
 Reader, Hd of Dept (U)
 Bakr, A, PhD *Harv*, MSc Sr. Lectr (U)
 Yaqub, M., MSc Lectr. (U)
 Arslan, M., MSc Lectr. (U)
 Vickier, G G Lectr (U)
 Khan, D, PhD *Lond & Panj*, MSc Lectr. (U)

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 Ahmad, Kazi S D, MA LLB *Alg*,
 PhD *Lond.* †Prof (U)

Ahmad, M, MSc *Alg*, PhD *Chic* †Lectr (U)
 Azim, M A, MSc PhD *Lond* †Lectr (GC)
 Qadir, A, MA †Lectr (GC)
 Ata, M, MA LLB *Camb* †Lectr (U)
 Khan, S A, MA †Lectr (U)
 Ajmal, M, MA PhD *Lond* †Lectr (GC)
 Yazdani, A, M. †Lectr (U)

Khan, B A, PhD MA †Lectr. (U)

SOCIAL SCIENCES RESEARCH CENTRE

Pfeffer, K H., PhD *Bel* Dir (U)
 Khan, M K. H. Assoc Dir. (U)
 4 Res Supervisors, 6 Asst Res. Officers

ADMINISTRATIVE AND OTHER STAFF

Dep Registrar (Exams.) B A. Shaikh, MSc.
 Dep. Registrar (Admin & Accounts) S. S
 Haider, MA Dep Registrar (General). S. A
 Khan, MA Asst Registrar (Accounts) M
 Arshad, MA Officer on Special Duty G R
 Shauq Asst Registrar (Exams.) Lt M M
 Saleem Jahangir, MA LLB Univ Chief Engin-
 eer M Ashraf Officer-in-Charge, Univ Press:
 Z. Iqbal, MA. Project Dir, New Univ Campus

Lt-Col Shahbaz Khan, MA
 Dir of Sports (Men) · Fl Lt T Ahmad Khan,
 BA DPE *Madr* (U), Dir. of Sports (Women):
 Mrs Razia A. A Beg, DPE *Cale.*, BA (U).

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 A M Omar.

UNIVERSITY COLLEGES

LAHORE, *Hasley College of Commerce* (tel 2968) Facilities up to MCom Principal—M Hassan, MA. Teaching Staff: A A Hashmi, MA MCom LLB *Agia*, MBA *Wash*, Reader, M. M. Khan, MA LLB *Alg*, MCom *Tor*, Sr. Lectr, H L Phailbus (Shorthand & Type-writing), K U Qureshi, PhD *Lond* & *Pary*, MA (U), N Din, MBA *Wash*, MCom (U), M Ibrahim, MA *Edin*, S. Ahmad, MA BCom (Trade Transport & Geog), A A Siddiqi, MCom *Agia*, R R. Alvi, MCom, Lectrs, Prof M Zia-ud-Din, MA *Alg*, PhD *Wales*, Prof M M Rafique, BA *Alg*, LLB *Lond*, F Horrasji, MCom, M Akbar, MA (U), H A Syed, MA (U), †Lectrs

LAHORE, *Law College* (tel 4453) Courses up to LLM Principal—S Imtiaz Ali, MA LLB *Alg*, LLM *Stan* & *Pary* Profs: M M Rafique, BA *Alg*, LLB *Lond*, S M I K Mokai, BSc LLB Law Lectrs S A Mahmud, LLM *Mich*, K H U Khan, MCL, S K Ahmad, MA LLB, N H Shah, DenDroit *Paris*, MA LLB, R S Sidhwa, MA LLB, C M Siddiqi, MA LLB, R S Akbar, BA LLB, J Iqbal, MA PhD *Camb*, S M Zafar, BA LLB, A S Slam, LLM *Lond* & *Yale*, A A Khan, BA LLB, A Hussain, MA LLB, M. Iqbal, MA, F

Ghani, BA LLB †Reader (U) A R. Shaikh †Lectrs (U): S H Malik, LLM *Lond*, LLB, M Zaman, LLM *Harc* & *Pary*, LLB, M Z Afzal, LLB, M A Manan, LLM *Lond* & *Pary*, LLB, R M Akram, LLB, A Ahmad, LLB, S Akhtar, LLB

LAHORE, *Oriental College* (tel 2573) PhD, MA, courses in Arabic, Persian and Urdu Principal—S M. Abdullah, MA MOL DLitt ARABIC—S M Abdullah, MA MOL DLitt, Hd of Dept, Noor-ul-Hassan, HA, Maulvi, A S. Sarim, HP HA Fazil *Al Ashar*, Additional Maulvi. PERSIAN—M Baqir, PhD *Lond*, MA, Prof & Hd of Dept; V. H Abedi, MA *Delhi* (Spoken Iranian), Reader, A. S Ahsan, MA LLB *Alg*, G J Kakhdum, MA MOL BT HA HP, Lectrs. URDU—S M Abdullah, MA MOL DLitt, Prof. & Hd. of Dept; E Brelvi, MA PhD *Luck*, Sr Lectr, V. Azim, MA *Alld*, Lectr *Inter-collegiate Staff*—A. Qayyum, MA (Govt Coll), G. M Asar, MA (Govt Coll), M B. Badakhshani, MA (Govt Coll), W. Qureshi, MA PhD (Islamia Coll), I. Siddiqui, MA (Islamia Coll), M Sadiq, MA PhD (Dyal Singh Coll.), S Zia ul Haq, MA PhD (Govt. Coll.), M. D Ghaznavi, MA (Islamia Coll)

AFFILIATED COLLEGES

[BA, BSc, etc., after the name of a coll means that courses are provided there for BA, BSc, etc ;
 *—maintained by govt of W. Pakistan]

Professional

BAHAWALPUR, *Govt Training College* (tel. 216) BED. Principal—M. A Haq, MA Other staff, 14

LAHORE, **Central Training College* (tel. 3691). BED. Principal—Namdar Khan, BA *Lond*, MA. Other staff, 22

LAHORE, *College of Home and Social Sciences* (tel : 7122). BSc(HomeEc), BEEd(HomeEc). Principal—Mrs. Mumtaz Bashir, MA. Other staff, 37

LAHORE, **de Montmorency College of Dentistry*

(Govt.) (tel. 4695) BDS, MDS Principal—H R Shah, BA Other staff, 13

LAHORE, **Fatimah Jinnah Medical College for Women* (tel. 3767) MB BS Principal—Shujaat Ali, PhD Durh, MD. Other staff, 50

LAHORE, **Govt College of Animal Husbandry* (tel. 3414) BScAnimalHusb Principal—S M Sarwar, BSc Other staff, 31

LAHORE, **Govt. College of Engineering & Technology* (tel. 4473) BScEngg (civil, mech., electr., mining and chem. engin.) Principal—K M I Khan, BSc. Other staff, 56

LAHORE, **Islama College for Women* (tel. 3574). BEd Principal—Miss Azia I. Rehman-khan, MA Sind, PhD Clark Other staff, 38

LAHORE, **King Edward Medical College* (tel. 64101) MSc (in physiol.), MB BS, MD, MS,

BPharm, DLO, TDD, DMRE, DO Administrator—Lt -Col R Ahmad Khan. Other staff, 56

LAHORE, **Lady Macleod Training College for Women* (tel. 4447). BEd. Principal—Mrs S A Malik, MA BT Alig, DipEd Lond Other staff, 12

LYALLPUR, *Punjab Agricultural College* (tel. 2247) BScAgri, agric, bot, chem, zool. and entomol. for MSc and PhD in agric. Principal—Commandant A Latif Other staff, 33

MULTAN, **Nishtar Medical College* (tel. 2770) MB BS Principal—Lt -Col Nayib Khan, MD Other staff, 51.

RAWALPINDI, *Pakistan Armed Medical College* (tel. 3031) TDD, DMRE, DPH. Commandant—Bugadier G Ahmad, MB BS Bom, MRCP Other staff, 25

Arts and Science

BAHAWALPUR, *Sadiq College for Women* (tel. 485) BA. Principal—Mrs Maqbool B Hassan, MA MLitt Camb Other staff, 18

BAHAWALPUR, *Sadiq Egerton College* (tel. 379) MA, BA, BSc Principal—G Muhammad Shah, MA Other staff, 34

CAMPBELLPUR, *Govt College* (tel. 25) BA, BSc Principal—Ashfaq Ali Khan, MA Other staff, 25

CHAKWAL, *Govt College* BA, BSc Principal—Ch. S Buksh, MA Other staff, 22.

D. G KHAN, *Govt College* (tel. 170). BA, BSc Principal—Q A Rashid, MSc. Other staff, 20

GUJRANWALA, *Govt College for Women* (tel. 2188) BA Principal—Mrs Saeeda A Khan, MA MOL LLE Other staff, 15

GUJRANWALA, *Islama College* (tel. 2286). BA. Principal—M. A Husain, BA Alld, MA Other staff, 27

GUJRAT, *Govt College for Women* (tel. 271). BA. Principal—Mrs Hajira Khatoon Khan, DIC, MSc Alig. Other staff, 15.

GUJRAT, *Zamindar College* (tel. 292). BA, BSc Principal—G Sarwar, MA Leeds & Pany. Other staff, 12

JHANG, *Govt. College* (tel. 46). BA Principal—A. A. Shaikh, MA Lond Other staff, 23

LAHORE, *Dyal Singh College* (tel. 2905) MA, BA, BSc Principal—Rafiq Ahmad Khan, MSc PhD Camb. Other staff, 47

LAHORE, *Forman Christian College* (tel. 69142). MA, MSc, BA (hons.), BSc Principal—R M. Ewing, MA PhilD Prin. Other staff, 52

LAHORE, *Govt College* (tel. 3792). MA, MSc, BA, BSc (hons.) Principal—N Ahmad, MSc Calc., DIC, PhD Lond Other staff, 83.

LAHORE, *Islama College* (tel. 5260) MA, MSc, BA, BSc Principal—H. A. Khan, MA MLitt Camb Other staff, 50

LAHORE, *Islama College for Women* (tel. 3574) BA, MA Principal—Mrs Azra I. Rehmankhan, MA Sind, PhD Clark Other staff, 34

LAHORE, *Kinnaird College for Women* (tel. 4390) MA, BA Principal—Miss P Mangat Rai, AM Harv., MA. Other staff, 33

LAHORE, *Lahore College for Women* (tel. 4523). MA, BA, BSc Principal—Miss A. Ali Mohammed, DSc PhD Nott., MA BT JD Other staff, 49

LAHORE, *Muhammadian Anglo-Oriental College* (tel. 66300) MA, MSc, BA (hons.) Principal—D Hussain, BA Camb, MA Alig & Pany, LLE Other staff, 27

LYALLPUR, *Govt. College* (tel. 2225). MA, BA, BSc Principal—Karamat Hussain, MA Other staff, 58.

LYALLPUR, *Govt. College for Women* (tel. 2595). BA Principal—Miss N. Abdullah, MEd Other staff, 21.

LYALLPUR, *Islama College* (tel. 2498). BA. Principal—H Khan, MA Other staff, 36.

MIANWALI, *Govt. College* (tel. 7) BA, BSc Principal—M M Anwar. Other staff, 19

MIRPUR, *Govt College* BA Principal—Shaikh M Ahmad, MA LLE Alig Other staff, 17.

MONTGOMERY, *Govt College* (tel. 446) BA. Principal—Asghar Ali, MA Camb & Pany. Other staff, 47.

MONTGOMERY, **Govt. College for Women* (tel. 374) BA. Principal—Miss Mayida Mehtab, MSc PhD Edm. Other staff, 14

MULTAN, *Emerson College* (tel 2449) BA, BSc Principal—A. Hamid, MA DipEd Lond. Other staff, 52

MULTAN, *Govt College for Women* (tel 2637). BA. Principal—Miss Iqbal Malik, MA Alg. Other staff, 22.

MULTAN, *Islamia College* (tel 2560) BA Principal—Ch A Ghafur, MA Other staff, 7

MUZAFFARGARH, *Govt College*. BA, BSc Principal—M N Bukhsh, MA. Other staff, 13

QUETTA, *Govt College* (tel. 2530). BA. Principal—S. M Anwar, MA Other staff, 39

RABHWA, *Talim-ul-Islam College* (tel. 65). MA, MSc, BA (hons.). Principal—M N Ahmad, MA Oxon. Other staff, 22

RAWALPINDI, *Gordon College* (tel 3014). MA, BA, BSc Principal—M A Q Dasquawai, MA N. Y, DD Other staff, 52.

RAWALPINDI, *Govt College* (tel 2612) BA, BSc Principal—G Ahmad, MSc Other staff, 35.

RAWALPINDI, *Govt College for Women* (tel. 2722) BA. Principal—Mrs Kaniz Siddiqi, MA Luck & Chnc, DT Luck, PhD Chnc. Other staff, 24

SARGODHA, *de Montmorency College* (tel. 2116) BA, BSc Principal—Abdul Ali Khan, MA Oxon Other staff, 40

SHEIKHUPURA, *Govt. College* (tel 272) BA, BSc Principal—Sardar Muhammad, MSc PhD Other staff, 13

SIALKOT, *Govt College for Women* (tel. 31) BA. Principal—Miss A. Munimuddin, MA Delh. Other staff, 17

SIALKOT, *Jinnah Islamia College* (tel. 144) BA Principal—M K Naeem, MSc Alg. Other staff, 17.

SIALKOT, *Murray College* (tel 127) MA, BA Principal—R C Thomas, MSc Alld Other staff, 37

GENERAL INFORMATION

Establd. in 1882, the univ. is the oldest in Pakistan and was the fourth to be establd. in the Indo-Pakistan sub-continent. Until 1919 the univ. confined its activities mainly to exams, the control of affiliated instns and the provision of instruct in its oriental and law colls. It has, since 1919, undertaken the maintenance of univ teaching depts. for postgrad instructn. and res and co-ordination of advanced teaching. Besides the univ. profs, readers and lectrs, sr teachers of the local colls are associated with univ teaching. The univ. also maintains colls of comm, law and oriental studies, and holds classes in stats, journalism, Turkish, German, French, Russian and Spanish.

By the Panjab Univ. Act of 1954 the matric., inter., Pakistani and oriental langs. exams were transferred from the univ. to the bd. of secondary educn, Lahore.

CONSTITUTION. Until 1959, a cttee. apptd by the chancellor exercised the powers and performed the duties of the various univ. authorities provided for under the Panjab University Act of 1954. Elections to senate, the supreme body of the univ., were held in 1959 and senate and 2 other bodies, syndicate and academic council, functioned till Sept 1961 when a new ordinance was issued by the governor repealing the act of 1954, abolishing senate and providing for the constitution of syndicate, academic council, bds of studies, selection bd, cttee for advanced studies and res, finance cttee. and planning & development cttee.

INCOME (1960-61) Total, Rs. 5,288,633 (govt grants, 45.7 per cent., fees and other sources, 54.3 per cent)

FACULTIES AND DEANS *Agric & animal husb.,*

Dr Khan A Rahman, *comm*, Principal M Hassan, *educn*, Dr Jehangir Khan, *engin & technol*, K. M I Khan, *European langs*, Rt Rev L. H Woolmer, *humanities & soc scis*, Prof Kazi S Ahmad, *Islamic studies & compar religion*, Justice, M Sharif, *law*, Justice S A Rahman, *med*, Lt-Col S M K Malik, *military studies*, *nat scis & maths*, Dr Niaz Ahmad, *oriental learning*, Dr M Shaif.

UNIVERSITY PRECINCT. The univ. is located in a congested area in the city and it has been decided to move to a new site outside Lahore. As a result of the efforts of the chancellor and the continued co-operation of the govt. of W Pakistan and the central govt., it has been possible to acquire about 2300 acres of land at the new site. A master plan has been prepared for the new univ. campus. As a first phase, the univ. plans to implement a 5-yr. constrcn programme (ending May 1965) over an 800 acreage for the time being which will cost not less than 250 million rupees. The work of constrcn has begun. The project (dir. • Lt-Col Shahbaz Khan, MA) will reflect the most progressive trends in higher educn and in its archit. blend the latest scientific building techniques with Pakistan's centuries-old traditions.

LIBRARY. Univ library, 172,235 vols plus 17,765 MSS in Persian, Arabic and Sansk, 437 periodicals. In addn, each teaching dept. has its own library.

MUSEUMS AND LABORATORIES. The univ. maintains well-equipped insts of chem. and chem technol, as well as the Kayshap Res Inst in bot. and phys. There are bot and zool labs also in Govt Coll, which the univ. shares. The depts. of bot and zool have museums.

TEACHING HOSPITALS The following hosps are recog for providing facilities for undergrad. and postgrad teaching in the fac of med Lahore. Mayo H, Lady Willingdon H, Sir Ganga Ram H Multan Nishtar Med H

ADMISSION Students must have passed the inter exam of the bd of secondary educn, Lahore, or equivalent exam The univ. *Calendar*, vol II, lists the exams of other univs., etc., recog as equivalent to the corresp exams of the univ Exams of other approved univs are recog by the syndicate and academic council After passing the inter exam students join one of the colls affiliated to the univ in the various facs Grads are admitted by colls for the master's degree, but postgrad teaching is mainly on a co-operative basis for colls in Lahore and is conducted under the auspices of the univ

FIRST DEGREES 3 yrs from inter.—BA, BA (hons), BSc, BSc (hons.), 3 yrs.—BSc (hons sch), BCom, BPharm, 4 yrs.—BScAgrn, BSc (HomeEc), BDS, BScEngg; 5 yrs.—BScAnimal Husb, MBS BS, 2 yrs. from BA—LLB, 2 yrs from FOL—BOL

BA (hons), BSc (hons) may be taken in Arabic, astron., econ, Engl, geog., geol., hist, Islamiyyat, maths, Persian, philos., pol sci., psychol., Sanskrit, stats, Urdu Candidates are required to offer, in addn to the ordinary degree course, 3 papers of a higher standard in their chosen subject.

The BSc (hons sch) differs from the BSc (hons) degree The former is a 3-yr course, candidates being required to qualify in an Engl prelim exam (in 1st yr), in a number of subsid subs (in 2nd yr), and in the hons sch exam (at end of 3rd yr) There are hons schs in bot, chem, technol, zool BSc (hons. sch) grads may proceed to MSc (hons sch) after a 1-yr. course

HIGHER DEGREES 1 yr.—BED, MSc (hons sch), MCom, MEd, MOL, 2 yrs.—MA, MSc, MScAgrn, MScAnimalHusb, MScTech, MDS, MCom, LLM, 3 yrs.—MD, MS, LLD, PhD, 6 yrs.—DLitt, DSc, DOL Postgrad teaching is provided in Arabic, astron, bot, chem., chem. technol, econ, fine arts, geog, geol, hist, Islamic studies, journalism, maths, Persian, pharm, phys, physiol, pol. sci., psychol., sociol, soc. work, stats, Urdu, zool.

HONORARY DEGREES DOL, DLitt, DSc, LLD, MD.

DIPLOMAS. *Post-matric.* 9 mos.—French, German, Russian, Spanish, Turkish; 3 yrs.—comm *Postgrad* 3 mos.—DMRE pt I, 6 mos.—DMRE pt II, 9 mos.—TDD pt I; 15 mos.—TDD pt II; 1 yr.—internat. affairs, library sci, stats, DPH pt I, DLO pt I, DLO pt II, DOMS pt II, DA; 6 mos.—DPH pt II, after a registrable qualif. in med, surg and midwifery, DOMS pt I

CERTIFICATES. *Post-matric* 1 yr.—French, German, Russian, Spanish, Turkish, comm *Postgrad* 1 yr.—stats

RESEARCH To study the soc and econ problems of Pakistan a soc scis res centre has been set up as a res dept of the univ It co-operates with all the teaching depts in the soc scis and receives financial support from the Asia Foundation It publishes res papers and has entered into res contracts with govt, internat and private agecies

ALLIANCE There is an inter-coll exchange programme between the Univ of the Panjab and its affiliated colls and the State Coll of Washington, USA The exchange is over a broad range of subs, incl agric, bus admin & comm, educn, engrn, home econ, sociol, soc work US specialists in these fields work in univ, teaching depts and in affiliated colls The programme also provides for the supply of equipment and books to participating instns

STUDY LEAVE Study leave on three-quarters' salary (or Rs. 300 p m, whichever is the greater) may be granted after 3 yrs' permanent service to members of the teaching or admin staff who wish to pursue their studies outside Pakistan. Leave is granted for a period not exceeding 3 yrs. in all during the officer's service and not for more than 2 yrs at one time

FEES Univ tuition fees BA—Rs 48 p.a BA hons in fine arts—Rs 96 p.a BA hons in langs—1st yr, Rs 60, 2nd yr, Rs 120, 3rd yr, Rs 180 BSc hons sch—bot, chem, tech, zool 1st yr, Rs 120, 2nd yr, Rs 140, 3rd & 4th yrs, Rs 240 p.a (chem, tech, 4th yr, Rs 310). BSc—astron, stats 3rd & 4th yrs, Rs 36 p.a; bot, zool 3rd & 4th yrs, Rs 48 p.a, geol 1st & 2nd yrs, Rs. 48 p.a, 3rd & 4th yrs, Rs 144 p.a BPharm—Rs 144 p.a MA—Rs 96 p.a MA (soc work)—Rs 144 p.a MA (journalism, fine arts)—Rs. 288 p.a MEd—Rs 318 p.a MSc—bot, phys, zool (Rs 240 p.a), chem technol, geol (Rs 310 p.a) Dips—fine arts, internat affairs, journalism, Rs 180, stats, Rs 120, French, German, Rs 63 Certs—French, German, Turkish, Rs 45

ACADEMIC YEAR 3 terms Sept 12–Dec. 22, Jan. 2–April 1, April 13–June 17

LANGUAGE OF INSTRUCTION English is the medium of exam in all subs except classical langs (where the medium is the cognate Pakistani lang or Engl. or the classical lang itself, at the option of the candidate), Pakistan langs (the lang concerned), and Islamiyyat (Urdu, except for foreigners, candidates from E Pakistan and students from schs. of European type joining any of the affiliated colls, who may use Engl)

The UNIVERSITY FOREIGN INFORMATION BUREAU advises and helps students who go abroad for advanced studies Sec., Prof. Kazim S Ahmad, MA LLB Alig, PhD Lond

RESIDENCE Undergrads. in Lahore colls, unless living with their guardians, are ordinarily required to reside in coll hostels or in hostels recog by the univ The univ. has started a hostel for women postgrad students

STUDENTS' UNION. Provides a modern cafeteria for use of students and staff and facilities for discussion of student and internat. affairs.

GRANTS TO COLLEGES Grants are given by the univ. to Mofussil colls. for prosecution of res., and to colls. affiliated to MA standard for library books required by MA students.

EXTENSION LECTURES Extension lectures by eminent scholars are arranged by the univ. at Lahore and Mofussil colls.

PUBLICATIONS *Univ. Calendar* (4 vols.), Rs 32, *Annual Report*, *Univ. Gazette*, Rs 4 p a (monthly), *Exam. Syllabuses*, Rs 0.37-Rs 2

each, catalogue of Sanskrit, Persian, Urdu and Arabic MSS. in the univ. library, various prices, *Lahore, Past and Present*, by Dr. M. Baqir (1952), Rs 15, *A History of the Punjab Univ.*, by J. F. Bruce (1933), o/p, but a few copies available from univ., *Urdu Encyclopedia of Islam*, Rs 5 each fascicule. The univ. has also published lexicons, grammars, text-books, critical edns., etc.

UNIVERSITY BOOKSHOP. The univ. has a sales dept. which sells the univ. publications.

UNIVERSITY PRESS (tel. 66689). The univ. has its own press, which does all the printing work (incl. text-books) of the univ.

THE YEAR 1960

RETIREMENTS Nil

RESIGNATIONS M. A. Shah (soc. work), M. L. Khan (geog.), D. Kenneth (fine arts), M. Saleem (econ.), A. Rashid (Hailey Coll. of Comm.), N. Saeed (chem.), S. M. Qasim (chem.), T. A. Khawaja (chem.), F. Aziz (chem.), I. Hasan (pharm.), M. Qazi Ahmad (chem. technol.), M. Fafi (chem. technol.), M. A. Mian (chem. technol.), W. M. Butt (chem. technol.), M. A. Malik (bot.), G. Ahmad (geol.)

HONORARY DEGREES *LLD*—Sir Alexander Biggam, dir., postgrad. med. bd., Edinburgh, Sir Alexander Drummond, dir.-gen., army medical services; Prof. C. A. Wells, prof. of surg., Lav.; Lt.-Gen. W. A. Burki, minister for health, labour & soc. welfare, govt. of Pakistan, (posthumously) late Lt.-Col. I. Bakhsh, ex-principal, King Edward Med. Coll., Lahore

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	13,156	6273
Women	2,843	1310
Total	15,999	7583

Distribution by Faculties *Agric. & animal husb.*, 1265, *comm.*, 466, *educn.*, 471, *engin. &*

technol., 473, *humanities & soc. scis.*, *langs., maths & nat. scis.*, *military studies*, 18,132; *law*, 798, *med.*, 1977. Total 23,582

Included in the figures above are —

Intermediate students, nil

Postgraduate students, 2863

New admissions, 1311

Students from other countries, 65 (Country from which largest number came Africa, 29)

DEGREES AWARDED (1959-60) BA, 2860, BCom, 46, BDS, 9, BEd, 620, BPharm, 16, BSc, 956, BScAgric, 180, BScAnimalHusb, 48, BScEngg, 124, BSc(HomeEc), 22, LLB, 212, MA, 632, MBBS, 279, MCom, 27, MOL, 13, MS, 3, MSc, 140, MScAgric, 33, MSc (hons. sch.) & MSc (chem. technol.), 14, PhD (arts), 2; PhD (sci.), 2

DIPLOMAS AWARDED (1959-60) French, 10, internat. affairs, 4, journalism, 2; pub. health, 18; Spanish, 5; stats, 11, Turkish, 2, Islamic studies, 4, library sci., 10, ophthal. med. & surg., 1, med. radiol. & electrol., 6, phonetics & linguistics, 2

CERTIFICATES AWARDED (1959-60) French, 11, German, 3, library sci., 3; Spanish, 5; Turkish, 3; pub. health, 4, med. radiol. & electrol., 7; laryngol. & otol., 1; phonetics & linguistics, 2.

UNIVERSITY OF PESHAWAR*

Established 1950

Postal Address . Peshawar, West Pakistan
Cables and Telegrams University, Peshawar
Telephone (Registrar) . Peshawar 5301

CHANCELLOR—THE GOVERNOR OF WEST PAKISTAN (*ex officio*)
VICE-CHANCELLOR—Col. M K AFRIDI, CBE, MD
REGISTRAR—Lt -Col F KHATTAK, MA *Pang*
DEPUTY REGISTRAR—M NAZIR KHAN, MA *Pang*, DSc *Gott*

TEACHING STAFF

Arabic		English	
Ahmad, C. S., MA <i>Pang</i> , Diplm French		Matin, A, PhD Bonn, MA	Reader
Diplm German	Sr. Lectr.	Akram, M, MA	Lectr
Ashraf, M, MA	Jr. Lectr	Khan, B M A, LLB	Jr Lectr
Khan, M W	Jr Lectr	Ullah, G, MA	Jr Lectr
		Mohammad, N	Jr Lectr
Botany		Geography	
Qazilbash, N. A., DSc <i>Pang</i> . Prof, Hd of Dept		Ah Khan, M., MA <i>Alig</i> & <i>Camb.</i> , PhD Lond	
Din, Hassan, MSc <i>Luck</i>	Reader		Prof, Hd of Dept
Fandi, M A F, MSc <i>Alig</i> & <i>Pang</i>	Sr Lectr	Close, H. M., MA DipEd <i>Camb.</i>	Reader
Ul-Haq, S, MSc <i>Pang</i>	Jr Lectr	Harbottle, M. S, MA <i>Camb</i>	Reader
Ahmad, N, MSc <i>Pang</i>	Jr Lectr	Bashiruddin, MA <i>Pang</i>	Reader
Ahmad, B, MSc <i>Pang</i>	Jr Lectr	Kamal, D, BA <i>Camb</i>	Sr Lectr
Khan, S, MSc	Jr Lectr	Khilji, J, MA BT <i>Pang</i>	Sr Lectr
Chughtai, S R. M, MSc <i>Pang</i>	Jr Lectr	Malik, R S, MA <i>Pang</i>	Sr Lectr
Shah, S H H, MSc	Jr Lectr	Sarwar, C M, MA <i>Pang</i>	Sr Lectr
Yusaf, M M, BSc <i>Pang</i>	Demr	Siddiqi, S, MA <i>Osm</i> & <i>Wis</i>	St Lectr
Chemistry		Samad, A M A., MA <i>Nag</i>	Lectr
Siddiqi, M S H, MSc PhD <i>Chic</i>		Osmari, M A H, MA <i>Agg</i> & <i>Wis</i>	Jr Lectr
	Prof., Hd. of Dept	Shah, S. A, MA	(on leave) Jr. Lectr
Ali, M, MSc <i>Alig</i> , DPhil <i>Oxon</i>	Reader	Shamsi, M A, MA LLB <i>Alig</i>	
Nowshervi, A R, MSc <i>Pang</i> & <i>Syd</i>	Reader		(on leave) Jr. Lectr
Kazmi, H A., MSc <i>Pang</i> , BA <i>Camb</i>	Sr Lectr	Ul-Ibrar, S, MA	(on leave) Jr. Legia
Abidi, S M F, MSc <i>Pang</i>	Jr. Lectr	Muhsin, I M, MA	Jr Lectr
Din, M Z., MSc	(on leave) Jr. Lectr	Geology	
Akhtar, M A, MSc	Jr Lectr	Zubair, S M, MA <i>Pang</i> . & <i>Lond</i>	Reader
Gul, S, MSc	Jr Lectr	Din, Hamid, MSc <i>Alig</i>	Sr Lectr.
Khan, Z M., MSc	Jr Lectr	Malik, A H, MSc <i>Pang</i> .	Jr Lectr.
Zeb, J, MSc <i>Pang</i> .	Jr. Lectr	Shah, S H Raza, MSc	Jr Lectr
Rafi, A., MSc	Jr Lectr	German	
Zaidi, N. A., MSc	Jr. Lectr		
Khattak, M M, MSc	Jr Lectr	Karrie Khan, Mrs. A	Jr. Lectr
Akhtar, N., MSc	Jr. Lectr.	Economics	
Economics			
Bokhari, N A., MA <i>Pang</i> & <i>Msch.</i>			
	Reader, Hd of Dept.		

* Member of the Association of Universities of the British Commonwealth

History and Political Science

Khan, M, MA PhD <i>Durh</i>	Reader, Hd of Dept.
Salm, Mrs A, MA LLB <i>Alig</i> , PhD <i>Lond</i>	
	Reader
Khan, H, MA <i>Pany</i> , BA <i>Lond</i>	Sr. Lectr.
Haq, M., MA LLB <i>Alig</i>	Sr. Lectr.
Anwar, M., MA <i>Pany</i> .	Jr. Lectr.
Ullah, I, MA <i>Pany</i>	Jr. Lectr.
Khan, A S, MA	Jr. Lectr.
Durrani, F. A., MA	(on leave) Jr. Lectr.
Arbab, F. M. K, MA	Jr. Lectr.

Home Economics

Rizvi, Mis. H A, MA <i>Osm</i>	Sr. Lectr., Hd of Dept
Ansari, Mrs N L, MA	Sr. Lectr.
Ahmad, Habiba, BS <i>Colorado Agric</i>	Sr. Lectr.
Akhtar, Mus S, MA	Jr. Lectr.
Habib, N, MSc	Jr. Lectr.
Rizwana, K, MA <i>Karachi</i>	Jr. Lectr.
Hussain, Rosy, MA	(on leave) Jr. Lectr.
Wazir, Mis E, BA	Demr.
Sultana, F, BSc	Demr.
Akhtar, S, BSc	Demr.

Islamiyyat

Quddus, Maulana A, Munshi Fazal	
Maulvi Ahm <i>Pany</i>	
	Sr. Lectr., Actg Hd of Dept
Rahman, Q M, MA	Jr. Lectr.
Shakoor, A	Jr. Lectr.
Saeedullah, M, MA	Jr. Lectr.

Mathematics

Ziauddin, MA <i>Pany</i>	Reader
Hayat, C M, MA <i>Pany</i>	Sr. Lectr.
Yusaf, M, MA <i>Pany</i> , BA <i>Camb</i>	Sr. Lectr.
Baloch, A. H, MA <i>Pany</i>	Sr. Lectr.
Ifukharuddin, MSc	Jr. Lectr.
Ali, M. S, MSc	Jr. Lectr.
Mohammad, D., MSc	Jr. Lectr.

Persian

Qadir, M A, MA LLB BT <i>Alig</i> .	
	Reader, Hd of Dept
Naqvi, S G A S, MA BT <i>Pany</i> , LLB	
PhD <i>Teheran</i>	Sr. Lectr.
Bizlas, M N H, MA BT MOL <i>Pany</i> ,	
PhD <i>Teheran</i>	Sr. Lectr.
Mufti, M H, MA <i>Agra</i>	Sr. Lectr.
Hussain, I, MA <i>Alig</i>	Jr. Lectr.
Yasmin, Rahmat, MA	Jr. Lectr.

Philosophy

Qayum, A, BT MA <i>Pany</i> .	Sr. Lectr.
Shah, M M., MA <i>Pany</i> .	(on leave) Jr. Lectr.

Physics

Mian, A. M, BSc PhD <i>Lond</i>	
	Prof, Hd. of Dept.

Jan Khan, M, BA <i>Oxon</i> , MSc <i>Pany</i>	Reader
Khattak, M. A, BSc <i>Manc</i>	Sr. Lectr.
Mayd, A, MSc <i>Pany</i>	Jr. Lectr.
Naqvi, S J H, MSc <i>Luck</i>	Jr. Lectr.
Akhtar, S, BA MSc	Jr. Lectr.
Ahsan, M, MSc	Jr. Lectr.
Mohammad, F, MSc	Jr. Lectr.
Khan, M A, MSc	Jr. Lectr.
Hussain, N., BSc <i>Pany</i>	Demr.
Shah, M, MSc <i>Pany</i>	Demr.
Baqi, F, MSc	Demr.
Khan, R., BSc	(on leave) Demr.
Bokhari, S A, BSc	Demr.

Political Science, see Hist and Pol. Sci.**Urdu**

Qadir, Maulana A., MA LLB BT <i>Alig</i>	
	Reader, Hd of Dept
Fauqi, M T, MA Dabir-i-Kamil <i>Luck</i> ,	
Maulvi Ahm <i>Pany</i> , Fazil Kamul <i>Alig</i>	
	Sr. Lectr.
Altat, S. M A, MA <i>Pany</i>	Sr. Lectr.
Azhar, A H, MA BT <i>Pany</i>	Jr. Lectr.
Jaffery, S M, MA	Jr. Lectr.

Zoology

Ahmad, M, MSc <i>Pany</i>	Sr. Lectr.
Ahmad, A, MSc <i>Pany</i>	Sr. Lectr.
Siddiqi, M N, MSc <i>Pany</i>	Jr. Lectr.
Hussain, S W, MSc <i>Pany</i>	(on leave) Jr. Lectr.
Syed, R A, MSc <i>Pany</i>	Jr. Lectr.
Shahwali, BSc <i>Pany</i>	Demr.

PUSHTO ACADEMY

Qadir, Maulana A, MA LLB BT <i>Alig</i> .	Dir.
Haq, S A.	Asst. Res Officer
Tahir, M N, MA	Asst Res Officer
Niaz, J Z, MA <i>Pany</i> , HP	
	(on leave) (Pushto) Sr. Lectr
3 Publication & Production Officers, 3 Asst	
Lexicographers, 1 Translator	

ISLAMIA COLLEGIATE SCHOOL

Din, W, MSc BT <i>Alig</i> .	Principal
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JUNIOR MODEL SCHOOL

Almas, Mrs Iffat, BA BT <i>Pany</i> ,	
MEd <i>Beirut</i>	Headmistress
Begum, Miss Razia, BA BT	Asst. Mistress
Ahmad, Miss Nama, BA BT	Asst. Mistress
Qadri, Miss Sughra, BA	Asst. Mistress
Beatrice, Miss, BA	Asst. Mistress
Khattak, Miss Iqbal, MA	Asst. Mistress

ADMINISTRATIVE AND OTHER STAFF

Controller of Exams Inayatullah Khan, BA
Panj Admin. Officer F U Khan, BA LLB
 Akg Controller of Accounts M S Burq
 Asst Registrar, Exams : S M Shaukat, MA
Panj Librarian Maulana A S Qasumi, MS

(LibSc) *Western Reserve*, MA Dir of Phys
 Educn Adil Khan, DipPE *Madr* Asst Dir
 of Phys Educn A Razaq, DipPE *Madr*, A
 Jan, BA *Pany* Executive Engineer S Khan
 Business Officer Aslam Khan, BCom *Pany*.

CONSTITUENT COLLEGES

(All located on university campus, †=Part-time)

[BScAgric, BEng, etc., after the name of a coll means that courses are provided there for BScAgric, BEng, etc.]

AGRICULTURE COLLEGE BScAgric (hons)
 Principal—Dr F L Duley. Asst to Principal—
 M S Roghani, MSc *Oregon*. Profs, N Ahmad
 Khan, MSc *Alg*, PhD McG, S Kamal, MSc
Iowa, PhD *Missouri*, Readers, H Khan, ARCS,
 BSc, M Salim Kaul, MSc *Pany*, PhD *Tubingen*,
 M Hussain Khan, MSc *Panj*, MScAgric *Colorado*
State, M Attullah Khan, MSc *Pany*, PhD *Syd*,
 M S Roghani, MSc *Oregon State*, Sr Lectrs,
 M I Baywa, MSc *Pany*, A Raziq, BS *Colorado*,
 BE; Jr Lectrs, S B A Shah, MSc LLB, S R
 Zaidi, MSc *Karachi*, A F Lodhi, MSc *Pany* (on
 leave), A Ahmad Khan, MSc, M H Rizvi, MSc
Pany, S B Shah, MSc, M Karim, MSc *Pany*,
 11 Demrs, 2 Farm Managers.

ENGINEERING COLLEGE BEng. Hon. Principal
 —M. Saeed Khan Asst to Principal—M S
 Khattak, MSc *Tas* CIVIL ENGIN—Reader & Hd
 of Dept, S A Ah, BSc *Madr*, BSc(CE) MS
Utah, Sr Lectrs, M A Ullah, BE *Osm*, MS
Colorado State, S M Yamin, BSc *Glas*, M Saeed,
 BScEngg *Pany* ELECTR ENGIN—Prof. U Dur-
 rani, BSc AssocEE *Sheff*, Readers, M S
 Khattak, MSc *Tas*, M. Abdullah, BSc(Engg)
Alg, MSc *Manc*; Sr Lectr, Hidayatullah, 1
 Demr MECH. ENGIN—Reader & Hd of Dept,
 S A Khan, BSc *Alg*, MSc *Tor*, Reader,
 S M. Ibrahim, BSc *Edm*, Sr Lectrs, S I H
 Shah, MS *Colorado State*, BE, J Khan, BSc
 (Engg) *Pany* (on leave), M. Amanullah, BE, 1
 Demr GENERAL—Reader, S A H Rizvi, DIC,
 MA *Osm*; Sr Lectrs, M R Ahmad, BE, K
 Durrani, BE, 1 Workshop Supt

ISLAMIA COLLEGE. BA, BA (Islamic theol),
 BSc Principal—Prof M A. Durrani, MA *Alg*
 & *Lond*

KHYBER MEDICAL COLLEGE. MB BS Prin-
 cipal—Prof F M. Khan, MB BS *Pany*, TDD

Madr, FRCS. ANAT.—Asst Prof, S Tahir
 Hussain, MSc *Pany*, 6 Demrs HYG—1 Demr
 MED—Prof, S A Raza, MB BS *Pany*, FRCSed,
 Asst Profs, Nasir-ud-Din Azam, MB BS *Pany*,
 FRCS, FRCSed, I Haq, MB BS *Pany*, FRCS.
 MIDWIFERY AND GYNÆCOL.—Prof, R B Baluch,
 MB BS, FRCSed, Assoc Prof, Mrs Shafigat
 Munir, MB BS *Pany*, Asst Prof, Miss Nasreen
 Firdaus, MB BS *Pany*, FRCSed OPHTHALMOL
 AND ENR—Assoc Prof, Q A Jabbar, MB BS
Pany, LO *Madr*. PATHOL.—Prof, M A
 Farooqi, MB BS *Pany*, MPH *Mich*, DSc *Penn*,
 Asst Prof, S Bahadur Khan, MB BS *Dacca*,
 MS *Colorado*; 5 Demrs PHARMACOL—Asst
 Prof, Inayat Khan, MB BS *Pany*, BSc PhD *Edm*
 PHYSIOL—Prof, M H Alvi, MB BS MSc *Pany*,
 PhD *Calif*, MD, 7 Demrs SURG—Profs, F M
 Khan, MB BS *Pany*, TDD *Madr*, FRCS,
 S A R Gardezi, MB BS *Pany*, FRCS, FRCSed,
 H Rehman, MB BS *Pany*, FRCSed, Asst
 Profs, S Z. Haider, FRCS, I C Ahsan, MB BS
Pany, FRCSed TUBERCULOSIS AND CHEST DIS—
 Assoc Prof, A Gohar Khan, MB BS *Pany*, TDD
Wales

LAW COLLEGE LLB Offg Principal—S. B
 Ahmad, BA *Osm*, LLM *Osm* & *Dal*, Reader,
 A Razaq Khan, BA LLB *Osm*, Sr Lectr, M N
 Khan, BA LLB, †Lectrs, I Ghaznavi, BA LLB
Belf, LLM *Qu*, S B Khan, BA LLB *Pany*,
 M A Y Khan, BA LLB, Jr Lectr, N Ahmad,
 BA LLB.

TEACHERS' TRAINING COLLEGE BEd Prin-
 cipal—S Y. Shah, MA *Lond*, DipEd *Brist*,
 Reader, A H Alawi, MA BT *Panj*, MEd *Flor*;
 Sr Lectrs, M I K. Sulemani, MA BT *Alg*,
 A W Siddiqi, MEd DipEd *Osm*, MA *Alg*, Jr
 Lectr, M Ashraf, BSc BT *Pany*

AFFILIATED COLLEGES

ABBOTTABAD, Govt. College. BA, BSc Prin-
 cipal—M. J Khan, MA PhD 23 other Teachers

ABBOTTABAD, Govt. College for Women. BA,
 Principal—Miss Gauhar Sultana, MA *Pany*, &
 III, MEd 8 other Teachers.

BANNU, Govt College. BA, FSc Principal—
 G. Sarwar, MScAgrn *Pany* 15 other Teachers

D I KHAN, Govt College BA, BSc Prin-
 cipal—N D Ahmad, MA LLB *Alg* 19 other
 Teachers.

D. I KHAN, *Govt Intermediate College for Women* FA Principal—Mrs T S Qureshi, MA *Pany* 5 other Teachers

HARIPUR, *Govt College* FA Principal—M. Kaleem, MA *Pany* 6 other Teachers

KOHAT, *Govt College* BA, FSc Principal—M Khan, MA LLB *Alg*, PhD *Bom* + 15 other Teachers

MANSEHRA, *Govt Intermediate College* FA Principal—A Wahid Khan, MA BT *Pany* 7 other Teachers

MARDAN, *Govt Akbar Memorial College* BA, BSc Principal—M I Sethi, MA *Pany* 19 other Teachers

NOWSHERA, *Govt Intermediate College* FA Principal—M Nazir Ahmad, MA *Pany* 11 other Teachers

PARACHINAR, *Govt Intermediate College* FA Principal—S D S Wasti, MA *Alg* 9 other Teachers

PESHAWAR, *Edwardes College* BA, FSc Principal—P Edmonds, MA DipEd *Melb*, PhD *Bom* 16 other Teachers

PESHAWAR, *Govt College* FA, BA Principal—M A Siddiqi 19 other Teachers

PESHAWAR, *Govt. Frontier College for Women*. BA, BSc Actg Principal—Miss Asif Jaleel, MSc *Luck* 26 other Teachers.

PESHAWAR, *Pakistan Forest Institute*. Dir—M. Habib Khan, BSc *Pany* 18 other Teachers

PESHAWAR, *St Francis Xavier's College for Women*. BA Principal—Sister M. Attracta, MA *Pany* 8 other Teachers.

SAIDU SHARIF (SWAT STATE), *Jahanzeb College*. FA, FSc, BA, BSc. Principal—Kh. Mohammad Ashraf, MA 23 other Teachers

GENERAL INFORMATION

The foundation stone of the univ was laid in 1950 by the Hon. Mr Lasquatt Ali Khan, then prime minister of Pakistan

Twelve colls which provide courses up to the level of BA and BSc are affiliated to the univ, and there are six constituent colls under the direct control of the univ. All postgrad teaching is controlled by the univ. There are postgrad classes in arts, educn, econ, law, oriental studies, sci, and plans for the next 5 yrs include the provision of postgrad classes in many subs not already covered. There are also undergrad courses in engin., home econ and med

In accordance with the decision of the govt of Pakistan and recommendations of the commission on natnl educn, the univ constitution is under revision. Rules for exams. have been revised. Pass and hons courses (3-yr courses after inter) have been introduced and matric and inter will not remain within jurisdiction of univ. A bd of sec. educn will be instituted by govt to deal with matric and inter exams

CONSTITUTION The univ is governed by a private body, the senate, and its executive, the syndicate. The senate consists of the chancellor, the vice-chancellor, *ex-officio* fellows and ordinary fellows. The syndicate is elected annually in Nov from among members of senate by the chancellor, vice-chancellor and the senate, the vice-chancellor is chairman.

INCOME (1960-61) Rs 5,804,884 (fees, Rs 492,551, govt grants, recurring, Rs 2,600,000, non-recurring, Rs 2,410,250, other sources, Rs 302,083)

FACULTIES AND DEANS *Agric*, F Rahim Khan, arts, Prof. M Ali Khan (Engl), *educn.*, Principal S Y. Shah; *engin.*, Prof U Durrani, *for.*, M. Habib Khan, *home econ.*, *Islamic theol.*

Maulana A Quddus (Islamyyat), *law*, M Ali, *med*, Principal F M Khan, *oriental learning*, Maulana A Qadir (Urdu), *sci*, Prof A M Mian (phys)

UNIVERSITY PRECINCT The univ. is located on a campus of about 800 acres outside the Peshawar cantonment

LIBRARY Central library about 39,046 vols (incl bound vols of periodicals) plus 562 MSS in Persian, Arabic and Pushto. In addition, each dept has its own library

ADMISSION. Min. qualif. for entry to univ is passing of matric exam of a Pakistan univ or equivalent exam 2 yrs. post-matric—inter.

FIRST DEGREES. 3 yrs. post-inter—BA (pass, hons), BSc (pass, hons.); 4 yrs post-inter—BScFor hons, BE (civil, elect. or mech.), 5 yrs post-matric.—BA (Islamic theol), BSc (home econ), BScAgric hons, 5 yrs post-inter—MB BS

HIGHER DEGREES 1 yr after bachelor's degree—BT; 2 yrs after bachelor's degree—MA, MA (oriental learning), MSc, LLB, 2 yrs after master's degree—PhD (in arts or sci.)

DIPLOMAS 2 yrs post-matric.—dipls in French, German

PRIVATE CANDIDATES, i.e. those in full-time employment living in the univ area, may sit certain exams without being required to attend classes

ACADEMIC YEAR 3 terms mid-Sept.—end Dec, early Jan.—end March; mid-April—mid-June

EXTENSION WORK Extension lectures are given in univ. and affiliated colls by univ staff and others

STUDENT RESIDENCES. 13 hostels accommodating about 1600 men.

STAFF RESIDENCES. Residential accomm is provided on the univ. campus for all staff members

PUBLICATIONS *Calendar* (annual); *Journal* (annual); *Brochure*, *Annual Report*, *Gazette*,

Courses of Studies, *Exam Regns & Text Books*; *Exam Results*

UNIVERSITY PRESS The univ has its own press which prints the *Calendar*, and *Courses of Studies*, etc, in the various facs.

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	University	Affiliated Colls	Islamic Coll.
Men	1280	4311	1440
Women	169	712	—
Total .	1449	5023	1440

All students are full-time

Distribution by Faculties, etc *Agric.*, 254; *bot.*, 20; *chem.*, 48; *econ.*, 56; *educn.*, 83; *engin.*, 242; *Engl.*, 45; *geog.*, 26; *geol.*, 6; *hist.*, 50; *home econ.*, 55; *Islamiyyat*, 5; *law*, 166; *maths.*,

21; *med.*, 314; *Persian*, 11; *phys.*, 27; *Urdu*, 14.
Total . 1449

Included in the figures above are —

Intermediate or Pre-University students, 5087
Postgraduate students, 536
New admissions, 4003 (incl affiliated colls)
Students from other countries, 8 (Country from which largest number came Iran, 3).

DEGREES AWARDED (1960). BA, 417; BA (Islamic theol), 7; BSc, 176; BScAgric, 1; BScAgric hon, 18; BScFor, 3; BSc (home econ.), 3; BT & BEd, 83; MA, 42; MSc, 57; LLB, 63; BE, 69; MB BS, 30

UNIVERSITY OF RAJSHAHI*

Established 1953

Postal Address : Rajshahi, East Pakistan
Cables and Telegrams . University, Rajshahi
Telephone Rajshahi 81, 83, 171

CHANCELLOR—THE GOVERNOR OF EAST PAKISTAN (*ex officio*)
VICE-CHANCELLOR—M AHMED, MA PhD Lond
TREASURER—NAWABZADA A S M L. RAHMAN, MA Camb
REGISTRAR—
DEPUTY REGISTRAR—M KHAN, BL Calc
CONTROLLER OF EXAMINATIONS—A R JOARDAR, MA Alig
LIBRARIAN—A RAZZAQUE, MA Dacca

TEACHING STAFF

[†=Part-Time]

Bengali and Sanskrit

Hag, M E, MA PhD Calc
Islam, M M, MA Dacca, PhD
Bhattacharyya, S N, MA Calc
Mannan, Q A., MA Dacca
Islam, M. N., MA Calc.

Prof
Reader
Lectr
Lectr.
Lectr.

Hossain, M, MA Dacca & Manc,
PhD Lond.
Khan, M A M., MA Dacca
Hossain, S. S, MA Col.
Mondal, M S, MA
Ather, S A, MA Dacca

Reader
Lectr
Lectr
Lectr
Lectr

Chemistry

Latif, K. A, MSc Dacca, MS PhD Ohio
Chowdhury, F H., MSc Dacca,
PhD Manc (on leave)
Das, N C, MSc Dacca
Ahmed, A., MSc Dacca
Rahim, Z, MSc Dacca
Mullik, S., MSc Dacca
Ahmed, A. K. Shamsuddin, MSc Dacca,
PhD Shaff
Sattar, A., MSc
Shamsuzzoha, MSc Dacca, BSc Lond

Reader
Reader
Lectr
Lectr
Lectr
Lectr.
Lectr
Lectr
Lectr.

English

Siddiqui, Z R, MA Dacca & Oxon
Islam, A. M. N, MA Dacca (on leave)
Ali, M, MA Dacca (on leave)
Ahmed, A, MA Dacca
Khan, A H, MA Dacca
Ahmad, S, MA Dacca

Reader
Lectr
Lectr
Lectr
Lectr
Lectr.

Geography

Patel, A M, MA Alig & Lond
Siddiqui, M I, MSc Alig, MA Kansas
Shamsi, F, MA Alig.
Arefin, S, MA Alig

Reader
Lectr
Lectr
Lectr.

Commerce

Islam, M. S., MA Dacca, MA(Econ) Manc
(on leave) Reader
Hossain, M., MCom Dacca, PhD Fran,
AM Manc
Mondal, W, MCom Dacca
Talukdar, M A A., MCom Dacca
Ahmad, S, MA

Lectr
Lectr
Lectr
Lectr

History

Mallick, A. R., MA Dacca, PhD Lond.
Ahmed, A F. S., MA Calc & Penn.,
PhD Lond
Akanda, S A., MA Dacca
Rahman, K., MA Dacca
Imam, A., MA Dacca & Lond.

Prof
Lectr
Lectr.
Lectr.

Economics

Hug, T, MA Dacca, MSc Lond
(on leave) Reader
Khondker, R H, MA Dacca, PhD Lond
(on leave) Reader

Reader
Reader

(Indian Archaeol.) Lectr.
Rahman, M. H, MA LLB Dacca,
BA Oxon
Husain, Mrs S., MA Dacca & Lond

Lectr.
Lectr.
Lectr.

* Member of the Association of Universities of the British Commonwealth

Islamic History and Culture

Bari, A, MA DPhil Oxon.	
Rahim, M. R., MA Calc.	
Hossain, M M, MA Dacca	
Rahman, M., MA Calc	
Husain, A B M, MA Dacca, PhD Lond	
Joarder, S, MA	

Law

Khan, A A	Supernumerary Lectr
Chowdhury, A A H, MA LLB Alg	
	(on leave) Lectr
Rahman, S S Z, MA LLB Alg.,	
LLM Lond	Lectr
Rahman, M H, MA LLB Dacca,	
BA Oxon.	Lectr
Khan, A. L, BL	† Lectr.
Alam, A., BL Calc.	† Lectr.
Huq, A., BL Calc	† Lectr
Bux, M, MA BL Calc.	† Lectr.
Sarkar, K C, MA BL Calc	† Lectr.
Bakht, M S, BL Calc	Lectr

Mathematics

Hussain, S. Q., MSc Patna & M.I.T,	
PhD Ltv	Reader
Rahman, M H, MA Alg, BA Camb	Reader
Yehyn, S. M, MA Pany, BA Camb	
	(on leave) Lectr.
Mahtabuddin, M., MSc Calc.	Lectr.
Huq, R, MSc Dacca & Manc.	(on leave) Lectr.
Yahya, Q. A. M. M, MSc Dacca	Lectr.
Huq, S A., MSc	Lectr.

Philosophy

Jamil, K. M, MA Lond, DLitt Paris	Reader
Huda, M, MA Dacca, PhD Lond	Lectr
Omar, B M, MA Dacca	(on leave) Lectr
Hossain, M, MA	Lectr.
Ahmed, M, MA Dacca	Lectr
Wasim, M, MA LLB Alg, PhD Lond	Lectr

Physics

Hossain, A, MSc Dacca, PhD Lond	Reader
Sarkar, M R, MSc Dacca, PhD Ltv	Reader
Choudhury, S A, MSc Dacca	Lectr.
Siddiqui, M H, MSc Dacca	Lectr
Sarkar, A Q, MSc Dacca	(on leave) Lectr
De, H B, MSc Dacca & Oslo	Lectr

Psychology

Mughni, M S., MA Alg, PhD Lond	Pof
Rahman, S. M, MA Patna	(on leave) Lectr.
Zakia, Mis, MSc MB BS Calc.	Lectr.
Junaid, M., MA Patna	Lectr
Imam, A, MA Patna	Lectr
Khanam, Mahmuda, MA	Lectr

Statistics

Hossain, K M, MA Dacca,	
MSc(Econ) Lond	Reader
Hoque, A K M S., MSc Dacca, MA	Lectr.
	Lectr
	Lectr

ADMINISTRATIVE AND OTHER STAFF

Inspector of Colls S Ahmad, MA Dacca
Asst Registrar (Academic) M A Din, MA BT
Calc. Asst Controller of Exams. M O. Faruk,
MA Dir of Phys Educn I. Ahmed, BPhysEd
Oregon Phys Insti. M Hafizullah, BA Dip
PhysEducn Calc Asst Librarian T Muham-

mad Wardens of Student Residences A
Ahmed (Fuller Hostel), K Rahman (New
Hostels), M Huda and A M Khan (Matihai
Hostels) Med Officer, Asst Med
Officer A Kayum

AFFILIATED COLLEGES

[IA, IIS, BA, etc., after the name of a coll means that courses are provided there for
Intermediate Arts, Intermediate Islamic Studies, BA, etc.]

BAGERHAT, *Prafulla Chandra College* (founded
1918), P O Bagerhat, Khulna IA, ISC, ICom,
BA, BA (hons) in Arabic, philos and Engl, BS
Principal—M A Awwal, MA 26 other Teachers

BOGRA, *A H College* (1939), P O Bogra. IA,
ISC, BA, BA (hons) in Arabic and Islamic hist
Principal—M W Buksh, MSc. 24 other
Teachers

DAULATPUR, *Brhajal College* (1902), P O
Daulatpur, Khulna IA, ISC, ICom, BA, BA
(hons) in Engl and philos, BSc Principal—
A S Ahmed, MA 33 other Teachers

DINAJPUR, *Surendra Nath College* (1942), P O
Dinajpur IA, ISC, ICom, BA, BCom Prin-
cipal—S M. Nadvi, MA 31 other Teachers

DINAJPUR, *Thakurgaon College* (1959), P O
Thakurgaon. Principal—A Karim 6 other
Teachers

GAIBANDHA, *Gaibandha College* (1947), P O
Gaibandha, Rangpur. IA, ISC, BA Principal—
N C Sen, MA 15 other Teachers

JESSORE, *Michael Madhusudan College* (1941),
P O Jessore IA, ISC, ICom, BA, BCom Prin-
cipal—A Hai, MA 18 other Teachers

JHENIDAH, *K C College* (1960), P O Jhenidah,
Jessore IA, ICom. Principal—

KHULNA, *Commerce College* (1953), P O
Khulna ICom. Principal—J K Das, MA
8 other Teachers.

KHULNA, *Girls' College* (1940), P O Khulna IA, BA Principal—Q A Hussain, MA. 12 other Teachers.

KUSHTIA, *Kushtia College* (1942), P O Kushtia. IA, ISc, ICom, BA, BCom, BSc Principal—M. U. Bhuiyan, MA. 29 other Teachers

MAGURA, *Magura College* (1940), P O Magura, Jessore IA, IIS, BSc Principal—M. Rahman, MA. 18 other Teachers

MONAKASHA, *Adna Fazlul Haque College* (1938), P O Monakasha, Rajshahi IA Principal—M. R. Rahman, MA. 4 other Teachers

NAOGAON, *B M C College*, P O Naogaon Rajshahi IA, BA Principal—Bazlul Huq, MA. 6 other Teachers

NAOGAON, *Naogaon B M C. Islamic Intermediate College* (1946), P O. Naogaon, Rajshahi IIS. Principal—A Q M Adamuddin, MA. 3 other Teachers

NATORE, *Natore College* (1946), P O Natore, Rajshahi IA, ICom, BA, BCom Principal—M. Ahmed. 12 other Teachers

NAWABGANJ, *Nawabganj College* (1957), P O Nawabganj, Rajshahi. IA, ICom, BA, BCom Principal—R U Khan, MA PhD. 7 other Teachers

NILPHAMARI, *Nilphamari College* (1958), P O Nilphamari, Rangpur IA, BA Principal—M. Ayesuddin, MA. 4 other Teachers

PAENA, *Edwards College* (1898), P O Paena IA, ISc, ICom, BA, BSc, BA (hons.) in maths and Bengali, BSc (hons.). Principal—A. Huq, MA. 30 other Teachers

RAJSHAHI, *Rajshahi City College* (1958) IA. Principal—S. Ahmed, MA. 6 other Teachers

RAJSHAHI, *Rajshahi College* (1828), P O Rajshahi IA, ISc, ICom, BA, BSc, BCom, BA (hons.) in Engl., Bengali, Arabic, hist., Islamic hist., econ., pol., philos., maths, BSc (hons.) in maths, phys and chem. Principal—S Z Choudhury, MA. 62 other Teachers

RAJSHAHI, *Rajshahi Medical College* (1958), P O Rajshahi MB BS Administrator—Major Burhanuddin Principal—Lt.-Col. G. Ahmed. 13 other Teachers

RAJSHAHI, *Teachers' Training College* (1956), P O Rajshahi. Dipl. in educn. Principal—Dr. A N M Chowdhury. 9 other Teachers.

RANGPUR, *Carmichael College* (1916), P O Rangpur IA, ISc, ICom, BA, BSc Principal—A Ali, MA Lond & Rajshahi. 31 other Teachers

RATANGANJ, *Victoria College* (1886), Narail, P O Ratanganj, Jessore. IA, ISc Principal—A Kader, MA. 12 other Teachers

SAIDPUR, *Quaid-e-Azam College* (1948), P O Saidpur, Rangpur IA, ICom, BCom Principal—M. Hassan, MA. 12 other Teachers

SATKHIRA, *Satkhira College* (1946), P O Satkhira, Khulna IA, ISc, ICom Principal—M. Gilbert, MA. 23 other Teachers

SIRAJGANJ, *Islamic Intermediate College* (1892), P O Sirajganj, Pabna IIS Principal—K A Jahl, MA. 4 other Teachers

SIRAJGANJ, *Strayganj College* (1940), P O Sirajganj, Pabna IA, ICom, BA Principal—S. A. Ali, MA. 21 other Teachers

GENERAL INFORMATION

Before the partition of Bengal in 1947 the Univ. of Dacca was purely residential and the jurisdiction of the Univ. of Calcutta extended throughout Bengal. In August 1947 the Univ. of Dacca assumed the responsibility of affiliating all those colls. in East Bengal which had formerly been under the jurisdiction of the Univ. of Calcutta; this resulted in the centralization of all higher educn. at Dacca, an immediate effect being overcrowding in degree and postgrad classes. The need for another univ. was realized and the govt chose as its location Rajshahi where the Govt Coll. founded in 1828, had a high reputation. As long ago as 1917 the Sadler commission had indicated the suitability of Rajshahi as the site for a univ. in North Bengal. The univ. was founded on July 1, 1953.

Rajshahi Univ. confines its activities to postgrad teaching and res., pass and hons. courses in the facs of arts and sci. being available in the affiliated colls. Postgrad teaching has been organized in law, Engl., econ., comm., philos., psychol., hist., Islamic hist., maths, phys, chem, geog and stats. In addition, the univ. has started a sch. of scis (econ., pol sci., sociol., anthropol.,

psychol.) and a sch. of oriental studies (Arabic, Persian, Urdu, Sansk, Pali), there is a separate dept. of Bengali lang. & lit.

CONSTITUTION On the senate are represented deans of facs, hds of depts., principals and governing bodies of all affiliated colls., and reps of the provincial legislature and all registered grads.; the government nominates 20 members. The syndicate, a smaller body responsible for day-to-day admin., is composed of the deans, 2 representatives of the principals of affiliated colls., and reps of senate incl. those of registered grads., members of the syndicate *ex officio* are the dir of public instructn., East Bengal, the pres of East Bengal secondary educn. bd. and the inspectress of schs., the chancellor nominates 3 members. The academic bd. is responsible for organizing courses of studies, prescribing syllabuses and conducting exams. The vice-chancellor is chairman of all these bodies.

INCOME (1959-60). Rs 1,555,103 (govt grant, 57 per cent., fees and other sources, 43 per cent.).

FACULTIES AND DEANS *Arts*, Prof. A R Malik (hist); *educn.*, Principal A N M Chowdhury, *engin.*, ; *law*, A A Khan, *med.*, (Principal) Lt-Col. G Ahmed, *sci.*, Prof S M Moghni (psychol)

UNIVERSITY CAMPUS The territorial jurisdiction of the univ extends over the Rajshahi division, pop. about 14,082,240 It is intended to establ. a small univ. town on 1000 acres of land acquired 6 mls. from Rajshahi The govt. of Pakistan has given a grant for the univ bldgs., and plans have been prepared by Lt.-Col G Swayne Thomas, whose services were made available by the Australian govt. under the Colombo plan Construction of bldgs has commenced; hostel bldgs have been completed, the phys lab nearly completed and work has begun on a hostel (for 300 students), 2 quarters for profs., a 3-storeyed bldg for residence of 6 lectrs and a water supply scheme

LIBRARY Approx 32,000 vols Primarily for postgrad and res work.

FIRST DEGREES BA, BA (hons), BSc, BSc (hons), BCom, 3 yrs after inter MBBS, 4 yrs. after inter. Degrees cannot be taken by pt-time or evg study

HIGHER DEGREES BEd, 1 yr after degree, LLB, 2 yrs after degree, MA, 2 yrs after BA or 1 yr after BA (hons), MSc, 2 yrs after BSc or 1 yr. after BSc (hons), MCom, 2 yrs after BCom, PhD in arts, 2 yrs after MA, PhD in sci, 2 yrs after MSc.

RESEARCH FACILITIES are available in facs of arts, law and sci

STUDY LEAVE All teachers who have completed 3 yrs' continuous service are entitled to study leave of 2 yrs on half salary, full salary is admissible if the univ depute a teacher for study; full salaries are also paid to teachers who obtain Nuffield fellowship or fellowship or scholp. awarded by the govt of Pakistan or by Colombo plan countries

FEES Arts, Rs 144 p a, phys. & chem, Rs 180 p a

TERMS July-Sept, Oct-Dec, Jan-May.

STUDENT RESIDENCES. (For wardens, see 'Admin and Other Staff', above) At Rajshahi P.O. and distinct. Fuller (postgrad) hostel, accomm 80; 6 other hostels, accomm. 205

MILITARY FORMATION There is a detachment of the O U T C. for the trg of univ. students

STUDENTS' UNION There is a students' union with the vice-chancellor as pres

HEALTH SERVICE. There is a univ med. officer, and students are allowed free advice and med from the univ dispensary

RECREATION All degree colls. have facilities for organized games

PUBLICATIONS. *Calendar*, biennial (2 vols, price Rs 6, publ'd by Oxford Univ Press).

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS Bldgs completed 5 hostel bldgs (with cafeteria) on univ. campus

RETIREMENTS Dr. A. Hakim (maths)

RESIGNATIONS S. C Paul (Bengali), M. O Faruk (comm), S Khan (educn), K. N Moitra (law); S B Das (philos)

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	16,318	—
Women . .	769	—
Total . . .	17,087	—

Distribution by Faculties *Arts*, 9585, *econ*, 2894, *educn*, 164, *law*, 154, *med*, 50, *sci*, 4240 Total. 17,087

Included in the figures above are —

Intermediate students, 12,449

Postgraduate students, 686

New admissions, 6729

Students from other countries, 22 (all from India)

DEGREES AWARDED (1959-60) *Arts* BA, 560; BA (hons), 57, MA, 110 *Comm* BCom, 91; MCom, 29 *Educn* MEd, 2, BEd, 56 *Law* LLB, 28 *Sci* BSc, 140, BSc (hons), 35, MSc, 34 Total number of first degrees awarded, 883

UNIVERSITY OF SIND*

Founded 1947

Postal Address Hyderabad, West Pakistan

Cables and Telegrams . University, Hyderabad, West Pakistan

Telephone (Registrar) . 2181

CHANCELLOR—THE GOVERNOR OF WEST PAKISTAN (*ex officio*)

VICE-CHANCELLOR—M RAZIUDDIN SIDDIQI, MA Camb., PhD *Leip*, DSc *Oxm*.

REGISTRAR—M. HUSAIN, MA

PROJECT DIRECTOR, SIND UNIVERSITY CONSTRUCTIONS—MOHAMMAD HUSAIN, MA

DEPUTY REGISTRAR—D. M. NARREJO, MA LLB

LIBRARIAN—M. A. KAZI, MA

TEACHING STAFF

[†=Part-Time]

Arabic

Jalilani, G N, MA Reader, Hd of Dept
Qureshi, Miss A K., MA PhD *Bonn* Sr Lectr
Qadri, M A, MA Lectr
Ahmed, M A †Teacher

Botany

Islam, A. S, MSc PhD *Manc*
Choudhry, I I, MSc *Alig*, PhD *Tubingen* Prof, Hd of Dept
Masumuddin Khan, MSc *Alig* (on leave) Lectr
Hyder, S Z, MSc Lectr
Ahmed Khan, A, MSc (on leave) Demr
Kadri, Z. bin-A., MSc Demr

Chemistry

Kazi, M A, MSc LLB PhD *Lond* Prof, Hd of Dept
Naqvi, S N A, MSc *Alig* (on leave) Lectr
Amin, I, MSc *Karachi* Lectr
Malik, A. A., MSc *Pany* Lectr
Akhtar, M I, MSc Lectr
Yousuf Khan, M, MSc (Org C) Lectr
Salam Khan, M A, MSc Lectr
Yousufzai, A H K Demr

Comparative Religion and Islamic Culture

Halepota, A J, MA *Bom.*, DPhil *Oxon* Prof, Hd of Dept
Khoja, A. A N, MA Lectr
Shah, P A, MA Tutor

Economics

Khan, N. A. G, MA BT PhD *Bom* Prof, Hd of Dept
Abro, M. E, MSc(Econ) *Lond*, MA Sr Reader
Yousafzai, A K, MA *Alig* Lectr
Beg, M A A, MA *Alig* Lectr
Shah, N A, MA (on leave) Lectr.

Education

Baloch, N. A, LLB *Alig*, EdD *Col*, MA *Alig* & *Col* Prof, Hd of Dept
Shami, P A, MA(Ed) *Col*, BT Reader
Memon, S M, MA BT MEd Lectr
Khan, Mrs Aqila N, MA BT PhD Lectr
Ali, I, MA LT *Alig* Lectr
Siddiqui, M., MEd BT Lectr
Khan, A, MA BT Lectr
Aram, A A U, MA Demr
Ansari, M A, MA Demr.
Shah, R A, MA *Beut* Demr
Muhammad, S (Atts & Crafts) Demr

English

Wasti, S M J, MA Camb & Smd Reader, Hd of Dept
Ahmed, I., MA LLB Reader
Ahmed Khan, J, MA *Alig* Reader
Khamisani, Mrs. Amina, MA Lectr.
Qureshi, G, MA Lectr.
Lal, A., MA Lectr
Farooqi, Miss Khalida J, MA Tutor

Geography

Memon, M M, MSc BT *Alig* Reader, Hd of Dept

* Member of the Association of Universities of the British Commonwealth

Rehman, Dr. M	Sr. Lectr	Ismail, A. Z. M., MA MSc <i>Panj</i> , BA <i>Camb</i>	Lectr -in-Charge
Ahmed, K. S, BSc <i>Alg.</i> , MA <i>Karachi</i>	(on leave) Lectr	Alam, A., MSc	Lectr
Saeed, M, MA	Demr	Nabi, S. I., MSc	Actg Lectr.
Geology		Choudhry, N. A, MSc	Actg Lectr
Ahmed, M. R, MSc	Lectr -in-Charge	Jafri, S. I. N, MSc	Demr
Malik, K. A, BSc <i>Karachi</i>	Demr.	Hag, Z, MSc	Demr
History, General		Political Science	
Bashir, A., MA <i>Panj</i> , PhD <i>Lond</i>		Hag Khan, N, MA	
Prof., Hd of Dept.		(on leave) Reader, Hd of Dept	
Muhammad Khan, Y, MA PhD <i>Lond</i>	Reader	Hussan Khan, M. H, MA LLB	
History, Muslim		Umai, M, MA	Lectr -in-Charge
Al-Masumi, Dr. M. S. H.	Reader, Hd. of Dept	Warsi, I. B, MA	Lectr
Hashmi, Y. A, MA PhD	Reader	Ali, R, MA	Tutor
Pathan, M. H, MA LLB	Lectr	Psychology	
Nadvi, S. S, MA	Tutor	Hasan, Mrs Rafia, MA MEd <i>Hav.</i>	
Islamic Culture, see Comparative Religion		(on leave) Sr Lectr -in-Charge	
Mathematics and Statistics		Ahmed, A, MA	(on leave) Lectr
Abbas, S, MA	Reader, Hd of Dept.	Ahmad, S, MA	Lectr
Mohammad, M. N, DIC, MSc <i>Lond</i> , MA	Sr Lectr	Mahmood, M, BA <i>Lond</i> , MA BT	Lectr.
Soori, S, MSc <i>Karachi</i>	Lectr	Latif, W, MA	Lectr
Persian		Haque, A., MA	Tutor
Qazi, P. N. B, PhD <i>Gott</i> , MA MEd		Sindhi	
Reader, Hd. of Dept		Jatoi, A. H, MA BT	Reader, Hd. of Dept.
Saleem, H. A, Munshi Fazil		Allana, G. A., MA	Lectr
Adib Fazil <i>Panj</i> , MA	Lectr.	Nizamani, M. M, MA	Lectr
Hussain, A. S, BA <i>Lond</i>	Lectr	Urdu	
Ghayasuddin, K., MA <i>Bom</i>	Tutor	Mustafa Khan, G, MA LLB <i>Alg</i> , PhD DLitt <i>Nag</i>	Prof., Hd of Dept
Philosophy		Rashidullah, K, MA	Lectr.
Farooqui, W. A, MA	Lectr -in-Charge	Hashmi, S. A, MA	Lectr
Ahmed, T., MA	Tutor	Zoology	
Akbar Ali, R, MA BT	Tutor	Mohruddin, A., PhD <i>Lond</i> , MSc	
Physics		Prof., Hd of Dept	
Ghouri, Q. K, MSc PhD <i>Br.Col.</i>		Akbar, S. S., MSc PhD <i>Alig</i>	Reader
Reader, Hd of Dept		Ali, S, MSc	Demr
Farooqui, A. Z., MSc <i>Alg.</i>	(on leave) Lectr	Ahmed, S, MSc	Demr
Mastoor, M. A., MSc LLB <i>Karachi</i>	(on leave) Lectr	Warsi, I. A, MSc BT	Demr
		Zaidi, S	Demr
		CENTRAL SUPERIOR SERVICES CLASSES	
		Siddiqui, A. A, MA LLB	Reader, Hd of Dept

ADMINISTRATIVE AND OTHER STAFF

Univ. Med. Officer . M. I Shaikh, MB BS *Vienna*

AFFILIATED COLLEGES

[BA, BSc, etc., after the name of a coll. means that courses are provided there for
BA, Intermediate Science, etc.]Dadu, Govt College. BA (pass), BSc Prin-
cipal—S. Hussain, MA LLB PhD 8 TeachersDadu, Law College LLB Principal—A
Najmuddin, BA LLB. 5 Teachers.

HALA, *Sarwari Islama College*. IA, ICom Principal—A. Z. A. Shaifce, MA 9 Teachers

HYDERABAD, *City College*, Station Rd BA (pass) Principal—M. A. Abbas, MA 19 Teachers

HYDERABAD, *Govt College* BA, BSc (pass). Principal—A. Saeed Khan, MA 32 Teachers

HYDERABAD, *Govt College for Girls* BA, BSc (pass). Principal—Mrs Shams Abbasi, MA BT 23 Teachers

HYDERABAD, *Liaquat Medical College* MB BS Principal—Col Ziauddin Ahmad. 48 Teachers

HYDERABAD, *Muslim College* IA, ICom Principal—K. A. N. Iyer, MSc. 10 Teachers

HYDERABAD, *Nazareth College* BA, ISc Principal—Mother Mary Aiden, MA 14 Teachers

HYDERABAD, *Sachal Sarmast College* BA (pass), ICom, ISc Principal—S. T. A. Naqvi 15 Teachers

HYDERABAD, *Sind College of Commerce* BCom Principal—S. Q. Ahmed, MCom 11 Teachers

HYDERABAD, *Sind Law College*, Risala Rd LLB Principal—A. Jaleel, BSc LLB 27 Teachers

HYDERABAD, *Sind Oriental College* Moulvi Fazil (in Arabic), Munshi Fazil (in Persian), Adib Fazil (in Urdu & Sindhi). Principal—M. A. Ahmad 12 Teachers

HYDERABAD, *Sind Tibbia College* Final yr Tibb Principal—M. I. Shaikh, MB BS. 14 Teachers

JACOBABAD, *Govt College* IA Principal—S. Shahid Ali, MA 6 Teachers.

KHARIPUR MIRS, *Mumtaz Govt. College* BA (pass), BSc, ICom. Principal—Prof. H. H. Zaidi, MSc 24 Teachers

LARKANA, *Commerce College*. IA, ICom Principal—Isai Ahmad, MCom. 5 Teachers

LARKANA, *Govt. College* BA, BSc (pass). Principal—M. Ali Khan, BMSS Inst for Soc Studies (The Hague), MA LLB. 19 Teachers

LARKANA, *Law College* LLB Principal—G. Nabi Shaikh, BA LLB 4 Teachers

MIRPURKHAS, *Intermediate Girls' College*. IA. Principal—Miss Kulsum Sultana, MA

MIRPURKHAS, *Law College*. LLB Principal—M. L. Gandhi, BA LLB 8 Teachers

MIRPURKHAS, *Shah Abdul Latif Govt. College* BA, ISc Principal—K. Hussain, MA LLB. 17 Teachers

NAWABSHAH, *Govt College* BA, ISc Principal—Y. S. Tahir Ali, MA LLB. 11 Teachers

NAWABSHAH, *Law College* LLB Principal—M. Yaqoob Qureshi, BA LLB 9 Teachers

SHIKARPUR, *C. and S Govt College* BA, ISc. Principal—S. W. Qadri, MSc 16 Teachers.

SUKKUR, *Govt College* IA. Principal—M. A. Ansari, MA 8 Teachers

SUKKUR, *Govt Girls' College*. IA Principal—Miss A. B. Omar, MA BT. 5 Teachers.

SUKKUR, *Islama College*. BA, BCom, ISc Principal—N. B. Daudpota, MCom MA LLB 16 Teachers

SUKKUR, *Law College* LLB Principal—M. Ali Shah, MA LLB 5 Teachers

SUKKUR, *Oriental College* Adib Fazil (in Urdu & Sindhi) Principal—A. W. Musavi, BA BT 6 Teachers.

TANDO ALLAHYA, *S. M Arts College* IA Principal—4 Teachers

TANDO JAM, *Govt Agriculture College* MSc (Agr) Principal—A. M. Shaikh, DIC, MSc PhD 26 Teachers.

GENERAL INFORMATION

Although the idea of a separate univ for Sind was first broached in 1886, it was not until 1940 that the autonomous govt of Sind apptd. a cttee to go into the entire problem. The report of the Sind Univ. cttee, issued in 1941, covered the entire field of organizational and academic issues involved, but action was delayed until a regular bill for the creation of a separate univ for Sind was introduced in the Sind legislature in 1945, and became an act in 1947.

Since a separate Karachi Univ for the Karachi federal area was establd. as from session 1951-52, the headquarters of the Univ. of Sind were moved from Karachi to Hyderabad in May 1951.

The univ. is affiliating, examining and teaching Undergrad. teaching is provided by the affiliated colls. and facilities for postgrad. study (incl. BA (hons) and BSc (hons) courses) and res. by the univ. itself.

FACULTIES AND DEANS. *Arts* (incl comm. and teaching), Prof. N. A. Baloch (educn), *Islamic and other religious studies*, A. S. A. Akbar Shah, *law*, A. K. Bhoi, *med.*, Dr. M. R. Siddiqi, *sci.*, Prof. A. L. Shaikh, *technol.* (incl. agric. and engin), Principal A. M. Shaikh.

UNIVERSITY PRECINCT. A univ. township scheme has been approved in principle by the provincial and central govts, and architectural work has already begun. The scheme envisages the establt. of the following instns. under direct univ. control: educn dept. with model primary sch. and model collegiate sec. sch.; arts colls.; comm. colls., law coll., sci. coll., engin. coll.; technical inst.; and med. coll. with attached hosp.

LIBRARY. 51,733 vols

ADMISSION to courses in *university* teaching departments. TD: candidates must be under-

grads. of Sind or a recog. univ and must have taught for at least 2 yrs *BT*. candidates must be grads. of Sind or a recog. univ. and must have taught for at least 1 yr *MEd* candidates must have had 1 yr.'s teaching experience after passing *BT* (1st or 2nd class), *MA*, *MSc* or *LLB* (with *BA* degree) in the 1st class or 2nd class *DEd* candidates possessing *MEd* of Sind or a recog. univ may register. *DPhil* candidates possessing *MA* or *MSc* of Sind or a recog. univ., or an equivalent exam of a recog. univ., will be allowed to register provisionally *MA* (in religion and in Islamic culture). those who have passed the exam. for the *BA* or *BSc* of Sind or a recog. univ., or equivalent degree of any recog. univ., are eligible for admission

Exams of all statutory univs in India and Pakistan are recog for the purpose of admission

FIRST DEGREES 3 yrs. after inter.—*BA* pass & hons., *BSc* pass & hons (after inter. sci.), *BCom* (after inter. comm.), 5 yrs. after inter sci.—*MB BS*, 5 yrs after matric—*BSc(Agr)*, also *BE* (civil, mech & electr)

HIGHER DEGREES. 1 yr—*BT*; 2 yrs—*LLB*, *MA*, *MSc*, *MSc(Agr)*, *MEd* (after *MA*, *MSc* or *BT*), *LLM* (after *LLB*) Also *DEd*, 1 yr after *MEd*, *DPhil*, not less than 2 and not more than 5 yrs after *MA* or *MSc*

DIPLOMA 10 wks—*TD* (teacher's dipl)

ORIENTAL TITLES 3 yrs—*Adib Alim*, *Adib Fazl* (in Urdu & Sindhi), *Moulvi Fazl* (in Arabic), *Munshi Alim*, *Munshi Fazl* (in Persian).

ACADEMIC YEAR 3 terms last Monday in July to 4th Sat. in Oct.; and Monday in Nov to last Sat 4. Jan., 2nd Monday in Feb. to last Sat in April

FEES Tuition fees Rs 150 p.a. or Rs 15 p.m. for *BA* (hons.), *BSc* (hons.), *BT*, *MA*, *MSc*; Rs. 300 p.a. or Rs 30 p.m. for *MEd*, Rs. 50 for *TD* (2 terms) Supervision fee Rs. 120 p.a. for *DEd*, *DPhil*, *BPhil*.

A FOREIGN UNIVERSITIES' BUREAU OF INFORMATION has been set up to guide all students in West Pakistan who desire to study in the univs of U.K. and U.S.A.

RECREATION The univ. bd of sports organizes the univ's sports activities Individual colls also provide facilities for indoor and outdoor games

PUBLICATIONS *Calendar*, Rs 38, *Annual Reports*; *Journal of Education*, Rs 7, *Univ. Gazette*, fortnightly, Rs 2

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

University Teaching Depts * Affiliated Colls *		
Men	714	8336
Women	102	576
Total	816	8912
Distribution by Faculties	Univ.	Teaching

Depts. arts, 500, religious studies, 18, sci, 243, teacher's dipl course, 55 Total 816.

Affiliated colls. agric, 258, arts, 5731, law, 866, med., 141; oriental, 418; sci, 1898 Total 9412

DEGREES AWARDED (1958-59) *BA* (pass & hons.), 163; *BCom*, 3, *BT*, 11, *MA*, 14, *BSc* (pass & hons.), 20, *MSc*, 7, *BE*, 2, *MB BS*, 15, *LLB*, 42.

* All students are full-time

RHODESIA AND NYASALAND

University College of Rhodesia and Nyasaland (p. 768)

RHODESIA AND NYASALAND

UNIVERSITY COLLEGE OF RHODESIA AND NYASALAND*

Incorporated 1955; previously established as Rhodesia University College, 1953

Postal Address: Private Bag 167H, Salisbury, Southern Rhodesia

Cables and Telegrams Unicol, Salisbury

Telephones: Salisbury 35674, 35260

PRESIDENT—H.M. QUEEN ELIZABETH THE QUEEN MOTHER

CHAIRMAN OF COUNCIL—The Rt Hon THE VISCOUNT MALVERN, CH, KCMG, DCL *Oxon*, LLD
Lond, *Rand* & *Rhodes*, FRCS

PRINCIPAL—W. ADAMS, CMG, OBE, BA *Lond*, LLD *Malta* & *Melb*

VICE-PRINCIPAL—Professor J. C. MITCHELL, BA(SocSc) *Natal*, BA *S.A.*, DPhil *Oxon*

REGISTRAR—J. D. ANGUS, BA *Lond* & *Durh*

LIBRARIAN—D. H. VARLEY, MA *Oxon*, FLA

ACCOUNTANT—W. BURNES

TEACHING STAFF

African Languages		Eve, A. J., MSc <i>Rhodes</i>	Lectr.
Fortune, G., MA PhD <i>Cape T</i>	Prof.	Eve, D. J., PhD <i>Rhodes</i>	Lectr.
		Robins, P. A., BSc PhD <i>Lond</i>	Lectr.
		Swart, E. R., BSc(Eng) <i>Rand</i> , DSc <i>Pret</i>	Lectr.
African Studies		Jenkins, W. L., MSc PhD <i>Wales</i> (Agric)	Lectr.
Mitchell, J. C., BA(SocSc) <i>Natal</i> , BA <i>S A</i> , DPhil <i>Oxon</i> .	Prof.	Casapieri, P., BSc <i>Nott</i>	Res Fellow
		Whitehead, D. L., MSc(Agric) <i>Natal</i> , DPhil <i>Oxon</i>	Res Fellow
Sommerfelt, A., MA <i>Oslo</i>	Lectr.		
van Velsen, J., BSc <i>Oxon</i> , PhD <i>Manc</i>	Lectr.		
Wheelodon, Prudence D., BA <i>Cape T</i>	Asst. Lectr		
Agriculture , see also Bot., Econ , Zool		Classics	
Davis, A. G., BSA <i>Tor</i> , MSc <i>Wales</i>	Prof	Carney, T. F., BA PhD <i>Lond</i> , D.Litt & Phil <i>S.A</i>	Prof
Olivet, J., BSc(Agric) <i>Durh.</i> , PhD <i>R'dg</i>	Sr Lectr.	Leon, Prof. P., MA <i>Camb</i>	Visiting Lectr
Allison, J. C. S., MSc(Agric) <i>Pret</i> .	Lectr.	Atkinson, J. E., BA <i>Durh</i>	Asst Lectr
Manson, J. L., MSc(AgricEng) <i>Durh.</i>	Lectr.	Forder, M. Philippa, BA <i>Camb</i> , MA <i>Cape T</i>	Asst Lectr
Topps, J. H., BSc PhD <i>Lond</i>	Lectr.		
Watson, J. P., BA(Agric) MA BSc <i>Oxon</i> .	Lectr.	Economics	
Quartermain, A. R., MSc(Agric) <i>N Z</i>	Asst Lectr	Taylor, W. L., MA <i>N.Z.</i> , MSc(Econ) <i>Lond</i>	Prof
Mueller, P. W., BSc <i>R'dg</i> .	Res Fellow		Sr Lectr
Botany		Johnson, R. W. M., MAgrSc <i>N Z</i> (Agric)	Lectr
Boughey, A. S., BSc <i>Lond</i> , PhD <i>Edn.</i>	Prof	Ngcobo, S. B., BA <i>S.A</i> , BEcon <i>Natal</i> , MA <i>Yale</i>	Lectr
Douglas, Barbara, BSc PhD <i>Lond</i> .	Lectr.	Palley, Claire, BA LLB <i>Cape T</i> .	(Law) Lectr.
Noel, A. R. A., BSc <i>Lond</i>	Lectr.	Scott, J. G., MA <i>St And</i>	Lectr.
Loveless, A. R., MA PhD <i>Camb.</i> (Agric).	Lectr.		
Mitchell, D. S., BSc <i>Cape T</i>	Res Fellow	Education	
Chemistry		Rousseau, H. J., MA BEd DLitt <i>Cape T</i> , DEd <i>S.A</i> .	Prof
Harper, S. H., DIC, PhD DSc <i>Lond</i> , FRIC	Prof.	Rogers, C. A., PhD <i>Lond</i> , BEd <i>Melb</i> , MA DipEd <i>N.Z</i> .	Sr. Lectr.
		Irvine, S. H., MA EdB <i>Aberd</i>	Asst Lectr

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English

MacKenzie, N H, MA Rhodes, PhD Lond.	Prof
Mason, M A, MA Lond	Lectr
Revencroft, A, BA Camb, MA Cape T	Lectr
Reed, J O, BA Oxon	Lectr

Geology

Bond, G, DIC, PhD Lond, FGS	Prof
Gifford, A C, DIC, PhD Lond	Asst Lectr

Government

Willson, F M G, BA(Admin) Manc, MA DPhil Oxon.	Prof
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History

Stokes, E T, MA PhD Camb	Prof
Brown, R., MA Camb	Lectr
Hoskin, D G, BA Camb	Lectr
Ranger, T O, BA DPhil Oxon	Lectr
Jenkins, A N M, BA Rhodes & Camb	Asst. Lectr

Mathematics

Manwell, A. R., BSc Lond	Prof
Butler, Rev. W J, MSc Lond	Lectr
Tennant, W, BSc Lond., MA Camb	Lectr.

Modern Languages

Rasmussen, B H, BA Lond	Prof
Parker, J M, MA PhD Camb	Lectr
Wake, C H, MA Cape T., DUPans	Lectr

Physics

Yates, E L, MSc Wales, PhD Wales & Camb, FIP	Prof
Gough, D I, MSc S A, PhD Rand	Lectr
McElhinney, M W, BSc PhD Rhodes	Lectr.
Brook, A, PhD Camb, FRMetS	Asst Lectr
Jones, D L, BSc Lond	Asst Lectr
Opdyke, N D, BSc Col, PhD Durh	Res Fellow

Zoology

Edney, E B, BSc S A, DIC, PhD Lond, DSc Burm	Prof
Rankin, Jessie J., BSc PhD Edm	Sr Lectr
Bursell, E, MSc Natal, PhD Camb	Lectr
Weir, J S, BSc PhD Glas	Lectr
Mettrick, D F, BSc Wales, PhD Lond (Agric)	Lectr
Harrison, A D, PhD Cape T	Sr Res Fellow
Cottrell, C B, BSc Rhodes, PhD Camb	Res Fellow
Jooste, Kate F, BSc St And, PhD Lond	Res Fellow
Mettrick, Mary B, BSc Wales, DIC, PhD Lond	Res Fellow
Williams, N V, BSc Wales	Res Fellow
Hulley, P E, BSc Rhodes	Jr Res Fellow
Kiaft, Mary K, BSc Rhodes	Jr Res Fellow
Woodrow, D F, BSc Nott	Jr Res Fellow

INSTITUTE OF EDUCATION

Milton, A, MA Camb	Prof, Dir of Inst
Rouse, A F, CMG, MA Oxon	Res Fellow

INSTITUTE OF ADULT EDUCATION

Townsend-Coles, E K, BA Durh	Lectr
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ADMINISTRATIVE AND OTHER STAFF

Estates Manager D Garden Asst Registrar
P Butterfield, MA Camb Asst Accountant
N Mayhew, FCA, Dep Librarian H Fair-
hurst, MA Camb Librarian (Scientific Infor-
mation Service). J Hutton, BA LLB Dipl in
Librarianship Cape T Asst Librarians Mis

Elsbeth A Daniels, BA Rhodes, Eunice Harbst,
BA Natal, M Quinn, TJB Lond, Margaret
Vowles, BA Natal, Dipl in Librarianship Cape T,
K SALA
Farm Manager M J Humphreys

GENERAL INFORMATION

The coll, originally incorporated under the
Southern Rhodesia 'University Charter and
Inaugural Board (Private) Act, 1952', and known
as the Rhodesia Univ Coll, was established by royal
charter in Feb 1955. The charter establishes a
council, and an academic bd. which is in control
of academic policy. The coll. is a multi-racial
institution, open to all students without distinc-
tion on racial grounds. It is intended primarily to
serve the higher educn'l needs of the Federation of
Rhodesia and Nyasaland but admits students from
other territories.

Towards the capital costs of bldg and equip-
ment H.M. govt has given grants totalling

£2,875,000. Private benefactions include a gift
from the British S Africa Co, Rhodesian Anglo-
American Ltd, and Rhodesian Selection Trust
Ltd, of £200,000 for the bldg of the library and
a gift of £36,000 from the Best trustees for the
constructn of the Alfred Best hall. The federal
govt. makes a quinquennial grant towards re-
current expenditure.

The coll. has been admitted to special relation
with the Univ of London. * Teaching began in
1957.

FACULTIES AND DEANS Arts (incl educn),
Prof E T Stokes (hist), sci (incl agric), Prof
S H Harper (chem)

* For a note on these 'special relationship' arrangements, see p 961

COLLEGE SITE The main site of 474 acres at Mount Pleasant, presented by the city authorities, adjoins and overlooks the northern residential area of Salisbury. It is being devel. in 3 sectors radiating from the high terrace which is in the centre of the north boundary. Eastern sector: students' halls of residence, and chapel, central sector: library, assembly hall, students' union and playing fields, western sector: circling Coll Green, arts bldg, agric lab, phys., chem, zool and bot. labs. Part of the coll. site is reserved for a med. sch., and the federal govt has given the coll. 1200 acres in the Mazoe valley for use as a teaching and exper. farm.

LIBRARY 50,000 vols and 1250 current periodicals, incl a considerable collection of Central African material

ADMISSION Candidates for admission to a first degree course must satisfy min and direct entry requirements which are equivalent, with minor modifications, to those of the Univ of London (see Appendix III), they must also pass a coll. test of proficiency in English

FIRST DEGREES (special relation with Univ of London) § Courses are provided for the following degrees of the Univ of London 3 yrs.—BA (gen), BA (hons.), BSc(Econ), BSc (gen), BSc(Agric)

DIPLOMA. Coll. dipl in appl. econ., 3 yrs. pt.-time.

CERTIFICATE (special relation with Univ of London) § Postgrad cert. in educn., 1 yr., open to grads of any approved univ

RESEARCH The coll is placing emphasis on the provision of res. facilities for members of its staff, for guest res workers and for postgrad students. Res. programmes are being devel in the various depts of the coll. The region is exceptionally rich in opportunities for res in hist and archaeol., in the pure and appl. scis; and in the soc. scis., incl. educn. Students wishing to undertake res. at the coll should write in the first place to the registrar, giving details of their academic qualifs, res interests and experience.

STUDY LEAVE Financial assistance is given to staff every 3 yrs. to assist them to visit other academic instns in Africa or overseas, and every 6 yrs addnl study leave is granted

ENTRANCE AWARDS (*=open only to candidates resident in the Fed. of R & N) Open entrance awards incl. 3 Fairbridge scholops of £300 p.a awarded annually to boys educated in the U.K. Others are the Bata, £200, Booker*, £200, Haddon, £100, Horace Hickling, £200, Milward*, £300, Nyasaland Agric Prod & Mktg Bd*, £250; Patel, £200, Debora Tarica*, £100, Three Feathers*, £150 Govt scholops and grants are also available.

POSTGRADUATE AWARDS (**=open to grads of any approved univ). Lever res fellowship**, £650 p.a., Milne Munro fellowship**, £500 p.a., Cooper scholp., £200 p.a., and certain of those given above. The federal govt offers scholops under the Commonwealth Scholop and Fellowship Plan, and has establd up to 12 awards a year, of £270 p.a. plus travelling expenses, to enable grads of U.K. univs to take the educn. course at the coll on condition that they teach in the federation for 3 yrs

FEES Tuition fees. BA (gen.), BA (hons.), BSc(Econ), £50 p.a., BSc (gen.) and BSc(Agric), £60 p.a., Postgrad. cert. in educn., £50 p.a.; other postgrad students, £25 p.a. (full-time), (pt.-time, £10 p.a.), dipl in appl. econ., £30 p.a. (pt.-time)

Univ of London matric and exam fees matric and exam registration fee, £3. 3s., exam fee, BA (gen.)—£18, BA (hons.)—£20, BSc(Econ) (pt. I)—£8, (pt. II)—£12, BSc (gen.) (pt. I)—£8, (pt. II)—£12, BSc(Agric) (pt. I)—£8, (pt. II)—£4, (pt. III)—£9. Postgrad cert. in educn.—£12. Dipl in appl. econ.—£3 3s. (pt. I), £3 3s. (final). Students' union, £2 2s p.a.

ACADEMIC YEAR. March to Dec. three terms 1962. March 5–May 5; May 28–Aug 11, Sept 10–Nov. 17

RESIDENCE The coll is mainly residential. Halls of residence have been built on the coll site which, in addn. to common rooms, dining-hall, etc., provide each student with a separate furnished study-bedroom. Fees for residence and bd. £115. 10s. per yr. of 3 terms

PUBLICATION. *Prospectus* (free on applicn. to registrar).

THE YEAR 1960

PRINCIPAL BENEFACIONS Nuffield Foundation, £250,000, Anglo-American Corp., £100,000, British S Africa Co., £100,000, Rhodesian Selection Trust, £100,000, Best Trustees, £100,000, State Lottery Trustees of Southern Rhodesia, £60,000 towards establishment of med. sch., Mr & Mrs L B Black, £50,000 for endowment of chair of obstet & gynaeol., 'Builders

of Kariba', £10,000 for geol., Carnegie Corp., \$30,000 for survey of man-power resources & requirements in the fed; late B R Cohen, £10,000 to form a scholop fund, Ford Foundation, \$150,000 for establishment of an inst of adult educn., Rockefeller Foundation, \$75,000 for res. in pasture ecol., plant pathol., soil micro-biol., animal sci and training of tech assts in

§ For a note on these 'special relationship' arrangements, see p. 561

UNIVERSITY COLLEGE OF RHODESIA AND NYASALAND 771

agric , \$70,000 for entomol & other res in dept of zool ; various bodies, £10,700 for res. on red boll worm.

(Total value of all benefactions received £960,000)

MAJOR BUILDING DEVELOPMENTS *Bldgs completed* extensions to Swinton hall of residence for women *Approaching completion* extensions to Manfred Hodson hall of residence for men , extension to chem dept

RESIGNATIONS D A Clarke (librarian), apptd. librarian, Liv ; Prof B A Fletcher (educn), apptd prof of educn , Leeds , Dr I M Lewis (African studies), apptd lectr , Glas

Distribution by Faculties *Agric* , 8 , *arts*, 199 (incl. 42 educn, 36 pt.-time) , *sci* , 79 (incl 2 pt.-time) Total 286

Included in the figures above are .---

Postgraduate students, 49 (42 educn., 7 res).

New admissions, 126

Students from other countries, 31 (Countries from which largest numbers came U.K , 16 , U S A , 5 , S Africa, 4)

Of the 248 full-time students, 173 are European, 64 are African and 11 of other groups

Statistics

STUDENT NUMBERS, 1961
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	169	35
Women	79	3
Total	248	38

DEGREES AWARDED (sp relationship with Univ of London) (1960) *Arts* BA (gen), 21 *Sci* BSc (gen), 14 ; BSc(Agric), 2. *Total number of first degrees awarded*, 37. (First final exams for BA (hons.) and BSc(Econ) in 1963)

CERTIFICATES AWARDED (1960). Educn , 33

SIERRA LEONE

Fourah Bay College
The University College of Sierra Leone (p 774)

SIERRA LEONE

FOURAH BAY COLLEGE THE UNIVERSITY COLLEGE OF SIERRA LEONE*

Incorporated by Royal Charter, 1960, established as Fourah Bay College, 1827

Postal Address Freetown, Sierra Leone, West Africa

Cables and Telegrams : Fourahbay

Telephone Freetown 3400

VISITOR—H M THE QUEEN

PRESIDENT—The Most Rev and Rt Hon Dr A M RAMSEY, ARCHBISHOP OF CANTERBURY

PRINCIPAL—D S H W NICOL, MA MD PhD *Camb*

VICE-PRINCIPAL—A. T PORTER, BA *Durh*, MA *Camb*, PhD *Boston*

REGISTRAR—F O HOOLEY, BA *Birm*

BURSAR—H G HALL

LIBRARIAN—M A JOLIFFE, BA DipL *Lond.*, FLA

TEACHING STAFF

[† = Part-Time]

Accounting		Van der Laan, H, EconDrs <i>E H Rotterdam</i> , MSc <i>Wis</i>		Lectr
Hall, S., MA <i>Manc</i> , FCA	Lectr	Dixon-Fyle, S R, BA(Econ) <i>Durh</i>	Lectr	
Botany		Spackman, Ann, BA <i>Oxon</i> (Pol Instns)	Lectr	
Taylor, F. J., MSc <i>Sheff.</i> , PhD <i>Lond.</i>	Sr. Lectr.	Harrop, Mrs Sylvia, BSc(Econ) <i>Lond</i>	Asst Lectr	
Gledhill, D, BSc <i>Durh</i>	Lectr.	Education		
Matturi, S T, PhD <i>Hull</i> , BSc <i>Hull</i> & <i>Lond</i>	Lectr	Hockey, S L, MA DipEd <i>Brist</i>	Prof	
Longman, K A, BSc <i>Wales</i> , PhD <i>Manc</i>	Lectr	Ferron, O M, BA <i>Madr</i> , MA <i>Lond</i>	Lectr	
Chemistry		Herbert, A, MA <i>Durh</i> , DUParis	Lectr	
Downing, E., OBE, BSc PhD <i>Lond.</i>	Sr. Lectr.	Engineering		
Cole, I. S A., MA <i>Camb.</i>	Lectr.			
Taylor-Smith, R. E. K., BSc PhD <i>Lond</i>	Lectr.	Majithia, J C, BSc(Eng) <i>Lond</i>	Sr Lectr	
Henry, A. J, BSc <i>Lond.</i> , PhD DSc <i>R'dg</i>	Lectr		Lectr	
Wright, E H, BSc <i>Hull</i>	Lectr		Lectr	
Classics		English		
Dolphin, Lindis M., MA <i>Oxon.</i>	Sr. Lectr	Creighton, T R M, MA <i>Camb</i>	Prof.	
Levitt, N, BA <i>Durh</i>	Lectr.			
Wikramanayake, G H, BA <i>Lond</i> , MA <i>Oxon</i>	Lectr	Jones, E D., BA <i>Durh</i> , MA <i>Oxon</i>	Lectr	
Harrop, J H, MA <i>Lond</i>	Lectr	Edwards, P. G., BA <i>Durh.</i> , MA <i>Camb</i>	Lectr	
Economics		Carroll, D R, BA <i>Durh.</i> , MA <i>Lond</i>	Lectr	
Davies, J H, MA <i>Wales</i>	Prof	Geography		
Carney, D E, MA <i>Durh</i> , MSc(Econ) <i>Lond</i> , PhD(Econ) <i>Penn.</i>	Sr. Lectr	Dalton, K. G, MA <i>Leeds</i>	Prof	
			Sr Lectr	

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Mitchell, P K, BA <i>Durh</i>	Lectr	Physics	
Creigh, J., BSc <i>Durh</i>	Lectr.	Awunor-Renner, E. R T, BSc <i>Hull</i> , MSc <i>Lond.</i>	Prof
History		Rivers, D. G, BSc <i>Lond.</i>	Lectr.
	Prof	Lane-Smith, D R, MSc <i>Manc</i>	Lectr
Porter, A. T, BA <i>Durh</i> , MA <i>Camb.</i> , PhD <i>Boston</i>	Sr. Lectr.	Theology	
Kup, A P., MA PhD <i>St.And.</i>	Lectr.	Sawyer, Canon H A E, MBE, MA MEd <i>Durh</i>	Sr Lectr
Hair, P E H, MA <i>Camb</i> , DPhil <i>Oxon</i>	Lectr	Turner, Rev H W., MA <i>N Z</i> , BD <i>Melb Dm.Coll</i>	Lectr
Law		Walls, A F, MA BLitt <i>Oxon</i>	Lectr
Tuboku-Metzger, F. C., BA LLB <i>Durh.</i>	Lectr	Thompson, Rev P E S, MA DipTheol <i>Durh</i>	Lectr
Mathematics		Zoology	
Zulauf, A., DrRerNat <i>Masnx</i> , PhD <i>Lond.</i>	Prof	Phripps, J, MSc <i>Lond.</i>	Sr Lectr
Smith, E. M. R, BSc <i>Lond</i>	Sr Lectr.	Smith, L, BSc <i>Durh</i>	Lectr
	Sr Lectr.	Chaytor, D E B, BSc <i>Aberd</i> , PhD <i>Lond</i>	Lectr
Amin, Y. A., BSc PhD <i>Leeds</i>	Lectr		
Williams, E. J A, BSc PhD <i>Belf.</i>	Lectr		
Jonah, D A, BSc <i>Wales</i> , PhD <i>Birm</i>	Lectr		
Modern Languages			
Giansden, J H, MA <i>Camb</i>	Lectr.		
Kirkman, Eunice, MA <i>Leeds</i>	Lectr		
Dalby, T D P, BA PhD <i>Lond</i>	Lectr		
Philosophy			
Ferguson, Rev J P, MA <i>Glas</i> , BA <i>Oxon</i>	St Lectr		
Kenner, L, MA <i>Aberd</i> , PhD <i>Lond</i>	Lectr		

EXTRA-MURAL STUDIES

		Hatch, J C, BA <i>Camb</i>	Dir
		Cole, C R A, BA <i>Durh</i>	Tutor
		Lawrence, P F, BA DipEd <i>Durh</i>	Tutor

ADMINISTRATIVE AND OTHER STAFF

Med Officer E O Pratt	Chaplain Rev	Peabody,	Warden of Students Rev.
P E. S. Thompson, BA DipTheol <i>Durh.</i>	Asst	J P Ferguson, MA <i>Glas</i> , BA <i>Oxon</i>	Wardens of
Registrar G K W Arkeson, DFC, MA LLB		Halls, Miss Linda M Dolphin, MA <i>Oxon</i>	E D
Edm Asst. Bursar. G. A P Hamilton.	Accountant	Jones, BA <i>Durh</i> , MA <i>Oxon</i>	I S A. Cole, MA
L. Whitehead.	Asst Librarians	<i>Camb</i> ; Rev. J P Ferguson, MA <i>Glas</i> , BA	<i>Oxon</i>
Mrs Olive S Caulker, MA <i>Chc</i> , MA (LibSc)			

GENERAL INFORMATION

The coll. was founded by the Church Missionary Soc. in 1827. In 1876 it became affiliated to the Univ of Durham. The coll. is an independent instn, governed by a council, incorporated under royal charter granted by H.M. the Queen on Jan 11, 1960.

CONSTITUTION follows closely the pattern of the English civic univs., with a council consisting of lay and academic members as the governing body, and a senate and bds of facs responsible for all academic matters

INCOME (1959-60) £275,029 (Sierra Leone govt grant, 82 per cent, tuition & residence fees, 14 per cent, misc, 4 per cent)

Colonial Devel. and Welfare grants together with the Sierra Leone govt. contribution totalling £935,000 have been made for stages I and II of

the coll. devel. programme which covers halls of residence, sci labs., dining halls and kitchen and staff houses

FACULTIES AND DEANS (1960-61). *Appl. sci.*, E M R. Smith (maths), *arts*, K. G Dalton (*geog.*), *econ studies*, Prof J. H Davies, *educn.*, (actg.) Landis M Dolphin, *sci*, Prof A Zulauf (maths), *theol*, Canon H. A. E Sawyer

LOCATION The coll. is situated on Mt Aureol overlooking Freetown. Some of the bldgs are still of a temp. nature though rebdg. is well advanced. Sci labs, women's hall, dining halls, modern kitchens and 36 staff houses are already completed. The next phase comprises men's halls of residence, and at a later date the library, arts and econ. teaching block, admin offices,

chapel and other bldgs Houses for extra-mural tutors are being provided in provincial centres

LIBRARY. 22,500 vols Sp Sierra Leone collection 858 serials received

BOTANICAL GARDEN in process of development

FIRST DEGREES (of Univ of Durham) The coll. provides courses for the BA (gen.), BA(Econ) and BSc (gen.) of the Univ of Durham. Hon. schs in econ, Engl and maths. are being instituted.

CERTIFICATES (of Univ. of Durham) The coll provides a 3-yr course leading to the cert in biblical studies of the Univ of Durham

DIPLOMAS The coll. provides courses leading to the dipls in theol (2 yrs), educn. (1 yr post-grad) and pub. admin (2 yrs) of the Univ of Durham The coll awards a dipl in engin (3 yrs) and licence in div (3 yrs)

RESEARCH Details given in *Annual Report* of principal

ACADEMIC YEAR Three terms of about 9 wks each Michaelmas—Oct to Dec., Epiphany—Jan to March, Easter—April to June

1961-62: Oct 7, 1961-Dec. 9, Jan 13, 1962-March 17, April 14-June 16 1962-63 Oct 13, 1962-Dec 15, Jan 12, 1963-March 23, April 20-June 22

EXTRA-MURAL WORK. Sessional classes, short residential courses, week-end conferences, occasional sp lectures and annual residential sch

STUDENT RESIDENCES. Students are in general required to reside full-time in coll

STAFF ACCOMMODATION is provided at reasonable rent (incl charges for water supply and elect appliances)

FEES Residence, £105 per session Tuition, £40-£60, dipl in educn, £75, union, £2, regn, 10s, exam, £2 10s-£4 per session

STUDY LEAVE. Normal entitlement 1 term every 7 yrs, after 5 yrs' service

GRADUATES' ASSOCIATION Fourah Bay Coll Old Students' Union

PUBLICATIONS *Calendar, Annual Report, Prospectus*

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS Bldgs completed students' union, Latu Hyde hall of residence for women, dining-halls and kitchens, phys lecture theatre

RETIREMENTS Joan R D Morgan (mod lang)

RESIGNATIONS J J Grant (principal); A Wainwright (registrar); J C Lambert (classics); E. White (zool), J M Klitz (gen sci), Rev R S Foster (chaplain), L Proudfoot (extra-mural studies)

DEATHS Rev. S B Caulker (vice-principal, sr. lectr in philos).

HONORARY DEGREE DCL—Dr E H Taylor Cummings, former pres, Fourah Bay Coll Council, former mayor of Freetown, member commission on higher educn in W Africa, 1943

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	269	—
Women	33	—
Total	302	—

Distribution by Faculties *Appl sci*, 7, *arts*, 116; *econ*, 87, *educn*, 12, *sci*, 77, *theol*, 3
Total. 302

Included in the figures above are —

Postgraduate students, 12

New admissions, 85

Students from other countries, 155 (Country from which largest number came Nigeria, 151)

DEGREES AWARDED (by Univ of Durham) (1959-60) *Arts* BA, 16. *Econ* BA(Econ), 21
Sci BSc, 7

DIPLOMAS AWARDED (1959-60) *By Univ of Durham* DPA, 1, DipEd, 10 *By coll* DipEng, 1.

UNITED KINGDOM

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|----|--|-----|--|
| 1 | University of Birmingham (p. 809) | 17 | University of Southampton (p. 1183) |
| 2 | University of Bristol (p. 827) | 18 | University College of Sussex (p. 1189) |
| 3 | University of Cambridge (p. 840) | 19 | University of York (p. 1191) |
| 4 | University of Durham (p. 877) | 20 | University of Wales (p. 1193) |
| 4a | Durham Colleges (p. 881) | 20a | University College of Wales,
Aberystwyth (p. 1196) |
| 4b | King's College, Newcastle upon
Tyne (p. 888) | 20b | University College of North Wales,
Bangor (p. 1201) |
| 5 | University of Exeter (p. 901) | 20c | University College of South Wales
and Monmouthshire, Cardiff (p.
1205) |
| 6 | University of Hull (p. 907) | 20d | University College of Swansea
(p. 1211) |
| 7 | University of Leeds (p. 913) | 20e | Welsh National School of Medicine
(p. 1215) |
| 8 | University of Leicester (p. 929) | 21 | St. David's College, Lampeter (p. 1220) |
| 9 | University of Liverpool (p. 934) | 22 | University of Aberdeen (p. 1222) |
| 10 | University of London (p. 950) | 23 | University of Edinburgh (p. 1233) |
| 11 | University of Manchester (p. 1088) | 24 | University of Glasgow (p. 1250) |
| 12 | University College of North Stafford-
shire (p. 1110) | 25 | Royal College of Science and
Technology, Glasgow (p. 1265) |
| 13 | University of Nottingham (p. 1114) | 26 | University of St. Andrews (p. 1270) |
| 14 | University of Oxford (p. 1123) | 27 | Queen's University of Belfast (p. 1281) |
| 15 | University of Reading (p. 1164) | | |
| 16 | University of Sheffield (p. 1171) | | |



The places named in black type are seats of university institutions as numbered overleaf

THE UNIVERSITIES OF THE UNITED KINGDOM

[Contributed by Sir James Mountford, Vice-Chancellor of the University of Liverpool]

HISTORICAL OUTLINE Diversity, rather than conformity to a pattern, is the key to an understanding of the universities of the United Kingdom. All are dedicated to the preservation and advancement of knowledge, to teaching and research, and to education for the learned professions, but in pursuit of these common purposes they exhibit great variety in their general organization, internal government, range and balance of studies, methods of instruction, and student life. The reason for this is not far to seek. The universities were founded at widely different dates, and have been influenced by and have responded in different ways to changing intellectual and social environments. Above all, they have always been autonomous bodies, evolving in their own ways, finding solutions wherever possible for their own problems, and remaining free from any attempt on the part of the state to impose uniformity on them or to subject them to a central control.

It is nevertheless possible and convenient to treat the universities as belonging to one or other of four main groups, the members of each of which have a more or less close family resemblance. These groups are: the two older English universities of Oxford and Cambridge, the four Scottish universities, the universities of London, Durham and Wales, all of which have federal constitutions, and the modern or 'civic' universities. It is possible that the institutions which are at the present time in the process of being founded will come to be regarded as belonging to a separate category (see below, p. 799).

The universities of Oxford and Cambridge originated in guilds of teachers who settled in those towns in the second half of the 12th century. The early development of Oxford is closely connected with the expulsion in 1167 of foreign-born scholars from the University of Paris, while that of Cambridge is associated with a migration of scholars from Oxford in 1209. Quite early in the history of both universities, pious benefactors founded residential colleges for teachers and students, University, Balliol and Merton colleges in Oxford date from 1249-64, and Peterhouse in Cambridge from 1284. In succeeding centuries, colleges have continued to be established right up to the present time (e.g. St. Antony's at Oxford in 1959 and Churchill College at Cambridge in 1960). There are now at Oxford 26 colleges and 5 other recognized 'halls' for men and 5 colleges

for women, at Cambridge there are 18 colleges and one other recognized 'house' for men, and for women there are 2 colleges and 2 recognized 'halls' (including New Hall founded in 1954). Most of the colleges have 300 undergraduates or less, but a few, such as Christ Church at Oxford and Trinity at Cambridge, are very considerably larger. This collegiate system has long been the outstanding characteristic of Oxford and Cambridge. Each college is a completely autonomous body so far as its property, finances and internal affairs are concerned. The university has its own separate identity and its own constitution, and it would be quite misleading to think of it as a federation of colleges or as a body which, except within strict limits, has any control over the colleges. Although at Oxford and Cambridge it is the universities themselves which alone have the right to confer degrees and determine the conditions on which they grant them and which provide the central libraries and laboratories as well as much formal instruction, the vital focus of academic life is in the colleges. It is by being a member of a college that a student becomes a member of the university, for some part of his student career he resides in his own room in his college, he dines regularly in the college hall where the head of the college presides at the high table, though regular attendance is no longer compulsory, the college chapel fosters his religious observances; the college library provides a quiet haven where he can read seriously or browse at leisure, and his studies are to a great extent guided by the senior members (generally called 'fellows') of his own college who have rooms and (if unmarried) live within the college building. A student's loyalty to his college and affection for it continue throughout later life.

The history of these two universities and of the colleges is closely interwoven with the broad pattern of national development. At the Reformation, for example, they suffered confiscations of land and revenues, and in the 17th century Oxford so staunchly supported the king in the civil war that he made the town his headquarters. Through the centuries many of the leading figures in statesmanship, the law, the church and literature as well as in scholarship, were trained in one or other of these two universities, and the portraits of notable men which adorn the dining-halls and common-rooms of the colleges of which they were once members are an epitome of the annals of the nation.

The mediæval curriculum, based on the seven liberal arts (the *trivium*—grammar, logic and rhetoric—and the *quadrivium*—arithmetic, geometry, music and astronomy) with the addition of the higher 'faculties' of theology, law and medicine, persisted up to the time of the Reformation and beyond; indeed even as late as the second half of the 18th century much of the subject matter of instruction was still aridly traditional, and formal and written examinations for degrees were not introduced (first in Cambridge) until 1772. In the 19th century, however, and particularly after 1850, widespread reforms were inaugurated as the vigour of the two universities asserted itself, religious tests for membership of the university were abolished (the last in 1871), modern subjects of study were encouraged and developed, and to the prestige deriving from antiquity of foundation there was added the intellectual and educational primacy which in many fields is accorded to Oxford and Cambridge. In the session 1959-60 there were 8893 full-time students at Oxford and 8997 at Cambridge.*

Three of the Scottish universities trace their origins to the 15th century, St Andrews being founded in 1411, Glasgow in 1451 and Aberdeen in 1494. The fourth, Edinburgh, was established by the town council in 1583. As now constituted, St Andrews incorporates three and Aberdeen two other foundations (all dating from the 15th or 16th centuries) which were at one time independent, and Queen's College, Dundee, founded in 1881, is also part of the University of St Andrews. To Glasgow there is now affiliated the Royal College of Science and Technology.

Though it was John Balliol, father of a king of Scotland, who founded one of the oldest colleges in Oxford, the idea of colleges where senior and junior members live together communally did not take firm root north of the border, and apart from St Andrews, where the newer type of halls of residence has been specially fostered within the last half-century, a long tradition within the Scottish universities has favoured the independence of the student in the matter of living accommodation. As in England the sons of Oxford and Cambridge have played a prominent part in the national life, so in Scotland the names of many who have moulded the fortunes of the northern kingdom or brought lustre to the name of Scotland in public life and in the learned professions are associated with the universities.

At this point of time it is hazardous to institute comparisons over the centuries, but it is clear that the Scottish universities in their teaching and curriculum freed themselves from the formalities of the mediæval scheme of studies rather sooner than did Oxford and Cambridge, and though the level of attainment for degrees fluctuated considerably from time to time, at no period in Scotland does the social side of university life appear to have predominated over the intellectual as it

did in the two English universities in the 17th and 18th centuries. In the session 1959-60 there were 2502 full-time students at St Andrews (including 1102 at Dundee), 5739 at Glasgow (together with 1738 at the Royal College of Science and Technology), 1937 at Aberdeen and 5636 at Edinburgh.

The University of London, now the largest in the country with 21,697 full-time students in 1959-60, was not established until the 19th century. It was in 1826 that, in part as a protest against the denominational tests still imposed at that time for entry to Oxford and Cambridge, what is now known as University College, London, was founded, and as a counter-protest King's College, London, came into being in 1829. The University of London itself was constituted by royal charter in 1836 as a body empowered to examine and confer degrees on students of approved institutions, and until 1900 its work was restricted to these functions in the exercise of which, however, it influenced and co-ordinated the work of the various other colleges of university rank which were founded from time to time in London (e.g. Bedford College for Women in 1849). From 1858 its degrees, except in medicine, were made available for students other than those in certain recognized institutions and the external degrees of the university which were then instituted still continue to provide both at home and overseas an academic award of high standing for part-time students and others who are not enrolled in a university. London, too, in 1878 was the first university in the United Kingdom to admit women to its degrees. From 1945 it has had special relationships with the new university colleges founded in colonial territories under the auspices of the Inter-University Council (see pp. 801 and 961).

In 1900 and again in 1946 the university's constitution and powers were revised and it is now not only a teaching as well as an examining body, but has become a federation in which are incorporated 13 medical schools associated with hospitals, 14 non-medical colleges (called schools of the university, and including e.g. University College and King's College), together with a number of postgraduate and other institutions. Some other centres of higher education in London are also affiliated to the university, and in still others certain members of staff are recognized as teachers of the university. The six largest schools of the university are University College (with 2997 full-time students in 1959-60), Imperial College of Science and Technology (2656), King's College (2125), London School of Economics (2103), Queen Mary College (1273) and Guy's Hospital Medical School (1038).

The University of Durham was founded in 1832 largely on the initiative of the cathedral authorities. The College of Medicine in New-

* See footnote to p. 793

castle upon Tyne, established in 1834, was linked with the university in 1852 and in 1871 the College of Physical Science (later Armstrong College) in Newcastle was founded as part of the university. The university is now organized on a federal basis in two divisions, one consisting of the Durham branch and the other of the College of Medicine and Armstrong College in Newcastle amalgamated under the name of King's College. "There are, however, proposals afoot that the Newcastle division should become an independent university. From its inception the university in the city of Durham was influenced by the collegiate pattern of Oxford and Cambridge, and eight of its halls of residence, in which 65 per cent of its students live, have the status of colleges of the university, the oldest dating from 1833. In 1959-60 there were 1453 full-time students in Durham itself, and 3642 in King's College, Newcastle. With the university there are affiliated Coddington College, Barbados, West Indies, and Fourah Bay College, Freetown, Sierra Leone, West Africa.

Luke London and Duham, the University of Wales is federal. It was in 1872 that a university college was founded in Aberystwyth as the result of a movement for higher education supported, often from the most meagre resources, by all sections of the population of the principality. In 1883 a second college was established in Cardiff and a third in Bangor in 1884. The University of Wales was founded in 1893 with Aberystwyth, Cardiff and Bangor as its constituent colleges, a fourth college was established at Swansea in 1920, and in 1931 the Welsh National School of Medicine, originally an offshoot of the Cardiff college, was given the status of a school of the university. In 1959-60 there were 6159 full-time students in the university as a whole, Cardiff having 1938, Aberystwyth 1488, Swansea 1361, Bangor 1201 and the School of Medicine 171.

Even older than any of the colleges of the university of Wales is St David's College at Lampeter in Wales which was established in 1822. Its royal charter empowers it to confer bachelor's degrees in arts (BA) and theology (BD and LTh). It is entirely residential and in 1959-60 had 185 students. Its recognition by the University Grants Committee for the purpose of grant dates only from 1961 when an agreement was reached whereby the University College of Cardiff assumed (for a period envisaged as ten years) sponsorship for the academic standard of the St. David's degree of BA.

The modern or 'civic' universities of England, which collectively had 35,600 full-time students in 1959-60, gained their full status only in the present century. Their rise and development has profoundly modified the whole pattern of university education in England.

They mostly had their origin in the university colleges which, under various designations, were established in large centres of population in the second half of the 19th century. These colleges

themselves were in many instances the inheritors and successors of more loosely organized literary, scientific and cultural societies, many of which had been influenced by the extension courses and lectures provided by Oxford and Cambridge. The primary purpose underlying the establishment of these colleges was to provide centres of higher learning at a university level for the young people of the area in which they were founded. By their very nature they were not conceived as being residential on the Oxford and Cambridge pattern, the idea of halls of residence took root slowly, and though the universities which have emerged from them now draw their students from all parts of the country, few provide accommodation for more than 25 per cent of their undergraduates. In some places the driving force which led to their foundation was an individual benefactor, in others the local community as a whole was inspired to provide itself with a college. The earliest of these newer institutions was Owen's College in Manchester (1851), followed by the Yorkshire College of Science in Leeds (1874), Unversary College, Bristol (1876), Firth College, Sheffield (1879), Mason Science College in Birmingham (1880), University College, Liverpool (1881), University College, Nottingham (1881), Reading University College (1892) and Exeter University Extension College (1894). Within the 20th century Hartley University College was founded in Southampton (1902), a University College in Leicester (1918) and a University College in Hull (1927). Where there was also a local school of medicine, it generally became closely linked with the university college and so formed the nucleus of a future faculty of medicine.

Until they attained the status of full universities, these colleges prepared their students for the external degrees of the University of London. The first move was in the direction of federation. By a charter of 1880 the Victoria University was founded with a federal constitution and Owen's College, Manchester, was made the first constituent college, to be joined subsequently by University College, Liverpool (1884), and the Yorkshire College, Leeds (1887). In 1900, however, Mason College in Birmingham obtained its own charter as a university, and any trend towards federation was abruptly halted. Liverpool obtained its own charter in 1903, and Leeds in 1904, leaving the title of Victoria University in the sole possession of Manchester. Sheffield was granted a charter in 1905 and Bristol in 1909. The other university colleges had longer to wait, and apart from Reading, which obtained full status in 1926, no other university colleges were elevated to full university status until after the end of the second world war. There then followed in quick succession Nottingham (1948), Southampton (1952), Hull (1954), Exeter (1955) and Leicester (1957). In 1959-60 Manchester had 4781 full-time students, together with 1733 in the affiliated Manchester College of Science and Technology; Leeds had 4716, Birmingham 4160, Liverpool 3846 and Bristol 3236, Sheffield had 2852 and

Nottingham 2449, Hull, Southampton and Reading had 1586, 1568 and 1480 respectively, Exeter reached 1282 and Leicester 1195

With the civic universities we can include the Queen's University of Belfast. It was founded by royal charter as Queen's College in 1845, and, together with colleges in Cork and Galway, became part of a federal Queen's University in 1850. In 1880 the title of the university was changed to the Royal University of Ireland, and in 1908 a fundamental reorganization led to the establishment in what is now Eire of a National University of Ireland consisting of University College, Dublin, and the colleges in Cork and Galway, and to the conferring of full and separate university status on the college in Belfast under its present title. The income of the Queen's University is now largely derived from the government of Northern Ireland, which since 1945 has elected on the advice given by the University Grants Committee. The number of full-time students in the university is in excess of 3000 (For the University of Dublin (Trinity College) see Appendix I)

The University College of North Staffordshire was founded in 1949 at Keele Hall near Newcastle-under-Lyme, largely on the initiative of the late Lord Lindsay of Birker, master of Balliol College. It is exceptional in several respects: the broad aim of its curriculum is to provide an integrated course of study in the humanities, the social sciences and the natural sciences, though not yet of full university status it is nevertheless empowered to confer the degree of BA, and major academic matters are at present (and pending the grant of a charter) controlled by a board, the majority of whose members are representatives of the universities of Oxford, Manchester and Birmingham. It is a self-contained and entirely residential academic community and in 1959-60 had 732 students.

The youngest member for the time being of the university family is the University of Sussex at Brighton which was formally constituted as a university college in 1959 and was accorded full university status by royal charter in 1961. It owes its origin to a scheme formulated locally, in support of which the University Grants Committee agreed to make grants for capital expenditure and maintenance. Sufficient progress has been made with the recruitment of staff for a small number of students in arts to be admitted in October 1961 and a full entry of 300-400 in arts and science in October 1962. To begin with, students will be accommodated in lodgings in Brighton itself. The new university will grant its own degrees of BA and BSc and standards will be guaranteed by an academic advisory committee of five or six outside persons of recognized standing. A distinctive feature of the curriculum in arts will be the grouping of subjects under the headings English studies, European studies and social studies.

Approval has also been given for the foundation of six other universities; but it is convenient to

make fuller mention of these in connexion with the problems of expansion (see p. 799)

It was only belatedly that women achieved full status within the universities. Although Bedford College for Women was established in London in 1849, it was not until 1878 that the University of London led the way for other universities by admitting women to degrees. At Oxford, Lady Margaret Hall was founded in 1878, Somerville in 1879, St Hugh's in 1886, St Hilda's in 1893 and St Anne's (formerly the Society of Oxford Home-Students, established in 1879) in 1952. Of the Cambridge colleges, Girton originated at Hitchin in 1869 and was removed to the near neighbourhood of Cambridge in 1873. Newnham was founded in 1871. Oxford admitted women to examinations in 1884, to degrees and full membership in 1920 and to university teaching posts in 1927. Cambridge admitted women informally to tripos examinations in 1872 and to 'titles of degrees' in 1923, in 1926 women were declared eligible for university teaching posts and therefore for membership of boards of faculties, but not until 1948 were they admitted to actual degrees and full membership of the university. Women have been admitted to the universities of Scotland since 1892, to Durham since 1896 and to all the modern civic universities from their foundation.

UNIVERSITY CONSTITUTIONS All the universities of the United Kingdom exercise their rights and functions in virtue of royal charters, which in the case of the older English and Scottish universities superseded the earlier papal bulls which authorized their foundation. Supplementary to the charter of each university, and in conformity with it, are statutes (in Scotland, ordinances) which are approved by the sovereign in council. A charter defines the powers, privileges and constitution of the university in broad general outline, the statutes, which within the framework of the charter can be amended on the initiative of the university subject to the approval of the privy council, provide for the more important and permanent constitutional details which need to be clearly set forth. Subsidiary to the charter and statutes, there are ordinances, decrees, graces and regulations which the university itself finds it convenient to promulgate from time to time for the orderly conduct of its affairs, and it is under these headings that, for example, the particular requirements for entrance and for the award of degrees are laid down.

Each university has as its official head a chancellor, a person distinguished in rank, in public service or in scholarship, who is elected for life by one of the statutory bodies of the university. Though the office is in the main honorific, the chancellor normally presides at the largely formal meetings of the supreme governing body of the university and at congregations where he confers degrees. Many universities provide for the election of one or more pro-chancellors for a limited period of years who act for the chancellor in

his absence, except in the matter of conferring degrees, which then becomes a function of the vice-chancellor. In the four Scottish universities, in addition to the chancellor, there is also a rector elected for a period of three years by the matriculated students for the time being; he may be a person of great distinction, a popular figure, or a transient notoriety, he is *ex-officio* president of the university court, though in most instances he does not exercise this right, he also appoints to the court an assessor who may in fact act for a succession of rectors. In most universities the chief academic and administrative officer is the vice-chancellor, who holds a permanent appointment (except in Oxford, Cambridge, London, Durham and Wales, where the tenure is for two or three years), in Scotland the official title is principal, though the holder of the office is usually nominated as vice-chancellor by the chancellor, in London there is also a permanent officer with the title of principal who shares administrative and academic duties with the vice-chancellor. The chief executive functions are in the hands of the registrar or secretary, who prepares the official business for the university bodies, keeps the university records and ensures the carrying out of official enactments. At both Oxford and Cambridge there are two proctors appointed annually from amongst the fellows of colleges whose primary functions are the care of undergraduate discipline but who are also *ex-officio* members of certain university bodies.

The academic side of university government is based on faculties each of which is concerned with the affairs of a group of related studies, and for the minor details a faculty is often advised by boards of studies. The number of faculties varies from one university to another, as to some extent does the grouping of subjects within faculties of the same name in different universities. The work of the faculties is co-ordinated and approval given to their recommendations by some higher academic body, which in the majority of universities is called the 'senate'. The conduct of financial affairs is very generally entrusted by charter or statute to a university body for which the commonest name is the 'council'. Ultimate authority within the university is, in most instances, vested in a supreme governing body for which 'court' is the most usual name.

When we turn to the individual universities or groups of universities we find not only that there are many confusing divergences of nomenclature but that within the broad pattern outlined above the precise distribution of function as between the various bodies is far from being identical. Furthermore, very important distinctions can be drawn according to the size and composition of the university bodies and the powers and influence within the university constitution which is exercised by the academic staff, by the graduates of the university or by lay members nominated and appointed from outside the university.

At Oxford and Cambridge the government of the university is entirely in the hands of members

of the university and there is no representation of any outside authority on any of the statutory bodies. At Oxford the chief legislative functions are in the control of the 'congregation', a very large body comprising the resident teachers and administrators in the university, every measure submitted to it, however, has to be initiated by the 'hebdomadal council', a smaller body of between twenty and thirty members elected from within the university, which digests the great volume of business coming from the general board of the faculties. Financial administration, though not financial policy, is entrusted to the 'curators of the chest', an elected body of twelve academic persons, who must be consulted by the hebdomadal council when finance is involved in its proposals. When a statute is passed by congregation by less than a two-thirds majority it must be submitted to 'convocation', a body to which belong masters of arts and holders of higher degrees who have kept their names on their college books and paid their dues. Convocation, however, has only a suspensory veto and that for a limited time. Its other functions are to elect the chancellor and to approve honorary and official degrees. In view of the fact that most of its members reside far from Oxford, it is only rarely and only on the most controversial of issues that more than a fraction of its members assemble.

At Cambridge the pattern is very similar to that at Oxford. The chief legislative body is called 'regent house', to which belong the teachers and administrators resident in the university. The much smaller initiating and executive body which sifts the proposals of the general board of the faculties is called the 'council of the senate', it consists of the chancellor and vice-chancellor together with sixteen resident graduates elected by regent house. Corresponding to convocation at Oxford there is the senate, consisting of bachelors of divinity, masters of arts and doctors; apart from some formal duties, it elects the chancellor and is a court of appeal in certain cases from decisions of regent house. Financial affairs are in the hands of a financial board comprised of a small number of academic persons elected or appointed by the other university bodies.

In quite sharp contrast to the self-contained form of university government at Oxford and Cambridge are the constitutions of the modern 'civic' universities. At Oxford and Cambridge the government of the university has in essence evolved from the closed corporations or guilds of teachers and students. In the modern universities the pattern was determined by other considerations, not the least of which was the large spread of interested bodies which were concerned in their foundation and development. Here the three major bodies are the court, the council and the senate. The court is the supreme governing authority; it is a large body, often between 300 and 400 in number, containing not only the professors and representatives of the graduates of the university and heads of schools, but persons nominated by other universities, by local authorities

and educational organizations within the university area, by religious denominations, and by learned societies. It meets annually to receive the financial accounts and other reports on the work of the university and to appoint certain university officers, it may also meet specially for other purposes, and in most cases it is the body which elects the chancellor, and in a few cases appoints the vice-chancellor. The council, generally containing between 30 and 40 persons, is the body which administers the finances of the university, it confirms the recommendations of senate for academic appointments, usually but not invariably its formal approval is necessary for academic regulations proposed by senate, and in most universities, generally in consultation with the senate, it appoints the vice-chancellor. The largest single element in its composition consists of members appointed by the court, a restricted number is nominated by senate or faculties from amongst the professoriate and other teaching staff, and some are nominated by local authorities, the chancellor and vice-chancellor are *ex-officio* members. The council is thus not a predominantly academic body, though some or many of its lay members may in fact be graduates of a university. Though it has wide powers which could be used to thwart the considered advice and recommendations of the senate, it refrains in practice from interfering in matters of purely academic policy, and in academic appointments, and it is generally agreed that the worldly wisdom and experience of affairs collectively possessed by the council has in many ways brought very considerable advantages to the newer universities. The senate, of which the vice-chancellor is *ex-officio* chairman, is, subject to the powers of council, the chief academic body, it approves and co-ordinates the work of the faculties, makes recommendations for the filling of professorships and other academic posts, and is responsible for the teaching and discipline of the undergraduates. Its membership consists of the professors of the university with the addition in most cases of a limited number of representatives of the other teaching staff, who apart from their wide representation on faculties and boards of studies do not have a share in the university government comparable to that afforded by the congregation at Oxford or regent house at Cambridge. The graduates of a modern university are members of a statutory body generally called convocation which meets annually and may discuss and express an opinion on any matter concerning the university but has no powers corresponding to those of the convocation at Oxford or the senate at Cambridge.

The government of the Scottish universities is defined by the Universities (Scotland) Acts of 1858 and 1889, modified in the case of St. Andrews by an act of 1953. The supreme governing body is the court, which, unlike the body of the same name in England, is a small but powerful one consisting of the rector, the principal, the lord provost of the city, three members nominated by the chancellor, the rector and the lord provost,

four members elected by the academic senate and four by the general council, it administers the property and finances of the university, makes academic appointments, and can review any decision of senate against which there is an appeal. In St. Andrews the court is of the same general pattern but consists of 21 persons. The 'senatus academicus', which has responsibility for instruction and discipline, and has the sole power of granting degrees, consists of the professors of the university together with a limited number of other members of the teaching staff, its *ex-officio* chairman is the principal, who is appointed by the crown except at Edinburgh, where his appointment (like that of a small number of professors) is in the hands of a special body of curators of patronage. The general council, which consists of the chancellor, the members of the court, the professors, the graduates, and readers and lecturers of one year's standing, meets twice annually and may make representations to the court on any matter affecting the university, it elects the chancellor and appoints its own four representatives to the court.

The underlying principle of the constitution of the federal universities of London, Durham and Wales is that in academic and financial matters which concern the whole university the central authority has control, leaving the constituent colleges and institutions to manage all other matters for themselves. In London the court, which has 17 members including representatives of the senate, persons appointed by the crown and persons nominated by the London County Council, controls the finances, it is the body which applies to the University Grants Committee, local authorities and other public bodies for grants and distributes them to the constituent schools and institutes of the university. The senate is the supreme governing and executive body in academic matters, and appoints, in consultation with the school concerned, the professors, readers and all but the more junior members of the teaching staff. Its fifty or so members include representatives of the constituent schools, of the faculties and of the graduates, amongst its important standing committees are the academic council and the collegiate council. Convocation, which consists of the graduates who have paid a prescribed fee, elects 17 members to the senate, and may discuss and express its opinion on any university matters, it is a point of significance that its elected chairman is *ex officio* a member of the court and of the senate. Each of the constituent schools of the university has its own internal form of government, consisting in general of a governing body with lay representation, an academic board composed from members of the teaching staff and a finance committee.

The governing bodies of the University of Durham are a court of about 30 members, the senate, boards of faculties and convocation, all of which have functions closely similar to the corresponding bodies in London. In the composition of these bodies the two divisions of the university

at Durham and Newcastle have appropriate representation and the court contains a number of lay members. The warden of the Durham Colleges and the rector of King's College, Newcastle, alternately act for periods of two years each as vice-chancellor. For its internal affairs each division is governed by a council and an academic board.

The University of Wales is governed centrally by a large court of over 250 members, including representatives of local authorities and public bodies in Wales and of the graduates of the university. Its finances are controlled by a council of about 20 members, on which in addition to the vice-chancellor and heads of the constituent colleges there are members appointed by the court and by local authorities. Academic matters are in the hands of an academic board consisting of representatives of the faculties in the constituent colleges. The guild of graduates is constituted similarly to the convocation of the modern universities, and has the same right of expressing its opinion on university matters. Each of the constituent colleges has its own board of governors, council and senate for the conduct of its internal affairs. The principals of the four constituent university colleges act in rotation as vice-chancellor, each for a period of two years.

RELATIONSHIP TO GOVERNMENT The universities of the United Kingdom are independent self-governing bodies which do not come within the jurisdiction or control of any ministry. It is from royal charters that they derive their rights and privileges; and any amendment of their charters or statutes is made by the crown acting through the privy council on the application of the universities themselves. It is true that, from time to time, royal commissions have been appointed and acts of parliament passed to deal with situations which the universities themselves for one reason or another were unable to resolve such, for example, are the Oxford and Cambridge University Acts of 1854, 1856 and 1877, the Durham University Acts of 1861 and 1935, the London University Acts of 1898 and 1926 and the St. Andrews University Act of 1953; but the initiative in setting these exceptional procedures in motion has generally come from within the universities themselves and they have always been adopted with the co-operation or at least the concurrence of the universities concerned. Furthermore, whatever changes may thereby have been effected in the constitution or structure of a single university, the essential autonomy of universities both individually and collectively has invariably been preserved. They alone decide what degrees they shall award and the conditions on which they shall grant them; they alone decide what students they shall admit and what professors and other academic staff they shall appoint; they can hold property and they have unfettered discretion in the use of their own funds.

This freedom of the universities from any form of governmental direction is all the more noteworthy when viewed against the background of

financial assistance which is now given to universities by the Treasury. Until the end of the first world war, such grants as were made to universities from governmental sources were sporadic and inconsiderable in amount. Universities relied for most of their income on endowments and private donations, on the fees paid by their students, and in many cases on grants from local authorities. In July 1919, however, when the financial stability of universities was causing great anxiety, the Treasury established a standing committee with the title of 'The University Grants Committee' which had the following terms of reference: 'To enquire into the financial needs of university education in the United Kingdom, and to advise the government as to the application of any grants that may be made by parliament towards meeting them'. For the session 1919-20 the total of the grants made available to the new committee for distribution to the universities and the independent university colleges was £916,000, by 1929-30 the sum had risen to £1,800,000, and it increased slowly to £2,224,000 in 1939-40, by which time it represented just over one-third of the entire income of the universities. During the second world war, when the contribution of the universities to the national effort, especially on the scientific side, was of paramount importance, the maintenance of the annual Treasury grant at much the same level saved the universities from undue worry about their finances.

By 1945 it had become clear that there would be in the future a greater demand and a greater need than ever before for university education, and that consequently not only must the subvention provided by the state be increased but also the nature of the partnership which, for a quarter of a century, had been developing between the universities and the University Grants Committee should be made more explicit. In 1946, therefore, the terms of reference of the University Grants Committee were significantly revised, and with the further amendments approved in 1952 they now read as follows: 'To enquire into the financial needs of university education in Great Britain; to advise the government as to the application of any grants made by parliament towards meeting them; to collect, examine, and make available information relating to university education throughout the United Kingdom, and to assist, in consultation with the universities and other bodies concerned, the preparation and execution of such plans for the development of the universities as may from time to time be required in order to ensure that they are fully adequate to national needs'. The declared function of the University Grants Committee is no longer formally restricted to the distribution of grants, and the co-ordinated development of the universities in the post-war years has been firmly founded on the information and advice which the committee has placed at the disposal of the universities and on the continuous consultations which have taken place on matters of broad policy no less than on

details of planning. The extent to which parliamentary grants made available to the committee and so to the universities have increased in the post-war period is indicated by the following figures. Apart from grants for buildings and equipment, the amount given towards recurrent expenditure for the five-year period 1947-52 was £64,630,000; for 1952-57 it was £120,000,000, and in March 1957 the chancellor of the exchequer announced that the grants for 1957-62 would be £173,500,000, rising from £30,600,000 in 1957-58 to £39,500,000 in 1961-62. The recurrent Treasury grant in the session 1947-48 represented 55.8 per cent of the total income of universities; in 1959-60 it accounted for almost 70.5 per cent.

There are three reasons why this vast increase in the actual sums given to universities and the striking change in the proportion such sums bear to total income have not brought with them any diminution in the autonomy of the universities. In the first place, informed public opinion is convinced that universities could not do their work effectively if there were any encroachment on their freedom; secondly, there is a firmly established feeling of confidence between the universities and the government; and thirdly, the wisdom and impartiality of the University Grants Committee itself and the effectiveness of the committee's procedures in relation both to the Treasury and the universities have provided a practical solution for a situation which could have raised problems of great magnitude.

The University Grants Committee (abbreviated as U.G.C.) as now constituted has two full-time officers, a chairman (Sir Keith Murray, BSc PhD MA BLitt) and a secretary (Sir Cecil Syers, KCMG, CVO, MA), who are assisted by a small number of permanent officials. In addition to the chairman there are sixteen members of the committee who are appointed by the chancellor of the exchequer after consultation with the minister of education and the secretary of state for Scotland, are part-time and unpaid, and individually serve for a term of years only. Rather more than half of these members are university professors or other persons of high academic distinction and sound judgment who have an intimate knowledge of universities; and though they are appointed as individuals and not as representatives of particular universities or of particular fields of study, they are so selected that collectively they can assess academic needs of all kinds. The other members of the committee include a headmaster or headmistress, a local authority director of education and prominent leaders of commerce and industry. Generally at least one member of the committee is a woman. Since 1956 two eminent non-academic persons have been appointed to sit as members of the committee when academic salaries are being considered. The main committee appoints sub-committees consisting of a nucleus of its own members who sit with the appropriate experts to advise it on particular topics. There are standing sub-committees on medicine, den-

tistry, technology, agriculture and veterinary science. From time to time special sub-committees on particular topics are set up, e.g. halls of residence, university teaching methods. The offices of the committee are at 38 Belgrave Square, S.W. 1 (tel. Belgrave 4801). The committee publishes annually a statistical abstract entitled *Returns from Universities and University Colleges*, which contains a report on the activities of the committee during the previous year and deals with the various categories of students, the degrees and diplomas awarded and the staffing and finances of the individual universities. After the end of each quinquennium the committee also publishes a lengthy report entitled *University Development* which is much less statistical than the annual returns but provides an invaluable survey of the whole field of university affairs; it is here that one gets the clearest picture of the broad lines of progress, of the needs that are emerging and of the problems that still await solution.

The recurrent grants made through the University Grants Committee are based on a five-year period. A year or so before the beginning of each quinquennium members of the committee and of some of the sub-committees visit each university institution to gain by personal contact with the governing body, the professors, the non-professional staff and the students an insight into the working of the university, its achievements, its needs and its programme for development. So far from being inquisitorial, these visits are a fruitful source of mutual understanding. By a fixed date each university subsequently submits to the committee a detailed estimate of its income and expenditure for the ensuing quinquennium, and on the basis of these estimates the committee makes its own consolidated recommendation to the Treasury. When on the advice of the chancellor of the exchequer, parliament has voted the money which is judged to be needed, the committee makes an allocation to each university in England, Scotland and Wales. In the case of Oxford and Cambridge the colleges do not participate in the allocation, which is made for university purposes only; in London, Durham and Wales the central university authorities distribute the allocation made to the university amongst the constituent colleges and institutions.

It is at this point that the freedom of the universities is made particularly manifest. The assistance provided is given as a block grant for each of the five years and is not divided under sub-headings; and apart from an understanding that academic salaries shall be paid within agreed ranges, each university expends its grant alongside its other income in the way it thinks best. For their part, the universities are very conscious and jealous of the trust thus reposed in them, and no one of them would contemplate embarking on a major change of policy involving heavy future commitments without previous consultation with the committee. This quinquennial system of grants also affords a valuable element of flexibility in the conduct of university affairs, within

reasonable limits a university can plan with some confidence for five years ahead and husband its resources accordingly.

Non-recurrent grants made by the Treasury towards the cost of new buildings and their equipment, the adaptation of older structures and the acquisition of sites, are assessed on an annual basis, though the total amounts to be made available for each year are announced well in advance so that planning can proceed in an orderly fashion. The proposals made by the universities for such capital expenditure are given an order of priority by the University Grants Committee and approved within the limits of available finance. Before final approval is given, the plans for each separate building are scrutinized and commented upon by the committee's own staff of experts and panel of advisers, from time to time also, on the basis of its accumulated experience, the committee indicates what standards of accommodation for various purposes it considers reasonable in normal circumstances. In the earlier post-war years, when the resources of the universities were at a low ebb, most of the non-recurrent grants covered the whole cost of a project. More recently, as universities have in varying degrees been able to secure funds for themselves by public appeals, they have found it possible to contribute something towards the cost of new buildings from their own resources, but for the major part of such expenditure they have still to rely on Treasury aid.

Between 1947 and 1957 approximately £42,000,000 was expended by way of non-recurrent grants, for each of the calendar years 1958 and 1959 the sum of £12,000,000 was made available, and for 1960 and 1961 £15,000,000. Early in 1961 it was announced that £25,000,000 would be provided for each of the years 1962 and 1963, and that planning for 1964 and 1965 could proceed on the basis of £30,000,000 per annum.

FINANCE In the session 1959-60, which is the latest year for which complete returns are available, the total income of the universities of Great Britain amounted to £59,800,092. The chief items within this sum were interest on endowments, £1,731,106 (2.9 per cent), of which £1,039,400 was for particular purposes and £691,706 for general purposes, donations and subscriptions, £451,328 (0.7 per cent), grants from local authorities, £1,533,673 (2.6 per cent), Treasury recurrent grants, £42,140,134 (70.5 per cent), grants from other government departments, £1,029,973 (1.7 per cent), tuition, examination and other fees, £5,990,466 (10 per cent) including £231,751 from the Ministry of Education for the fees of teachers in training, payments for research, £4,730,590 (7.9 per cent), of which £2,408,613 came from government departments and £2,321,977 from other bodies, and various miscellaneous items, £2,192,822 (3.7 per cent).

For the same session, 1959-60, the total expenditure of the universities, apart from £669,066 allocated to reserves, amounted to

£58,505,072. The major items within this sum were administration, £3,996,364 (6.8 per cent), salaries and payments for superannuation of teaching staff, £25,733,361 (44 per cent), departmental and laboratory maintenance, including wages of technical staff, £12,138,268 (20.8 per cent), libraries and museums, £2,554,613 (4.3 per cent), repairs and maintenance of buildings, £2,116,022 (3.6 per cent), other maintenance costs including light and heating, £5,619,447 (9.6 per cent), capital expenditure met from income, £506,444 (0.9 per cent), general educational expenditure including examinations, publications and student amenities, £3,195,574 (5.5 per cent), and miscellaneous items, £2,644,979 (4.5 per cent).

PRE-UNIVERSITY EDUCATION All but a relatively small minority of the English and Welsh students who enter the universities have been educated up to the age of 18 or over in one or other of three types of grammar school. First there are the grammar schools maintained or assisted and controlled by local education authorities with the aid of grants from the Ministry of Education, pupils in these schools pay no fees and with rare exceptions will have had their primary education up to the age of 11 or 12 in a school maintained by a local education authority, they account for about 78 per cent of the whole grammar school population, and pupils from such schools account for about 60 per cent of the university population. Secondly, there are direct grant schools which receive aid directly from the Ministry of Education and not through a local education authority, it is a condition for receiving a grant that at least one-quarter of the pupils shall have free education and that the fees payable by the remainder shall be related to parental income, these schools are controlled by a board of governors on which local education authorities must be represented, many, but not all, of the pupils will have previously attended a local education authority primary school up to the age of 11 or 12, which is the normal age for entry to direct grant schools; the pupils in these schools account for about 12.5 per cent of the whole grammar school population, and pupils from such schools account for about 13.5 per cent of the university population. Thirdly, there are the independent schools which receive no grant from the Ministry of Education or from local education authorities but depend on their endowments and fee income, the control of these schools is vested in a self-perpetuating governing body which in some instances may include a person nominated by the Ministry of Education, apart from the holders of scholarships awarded by the school, all pupils pay whatever fees may be fixed by the governing body, the age of entry to these schools is normally 13 and most of the pupils will previously have attended a fee-paying and privately owned preparatory school, the pupils in independent schools account for about 10 per cent of the whole grammar school population, and pupils from such schools account for 18.5 per

cent. of the university population.

Separate schools for boys and for girls is the predominant pattern of grammar school education, just over 30 per cent of the local education authority schools, but less than 4 per cent of direct grant and independent schools, are attended by both sexes. The local education authority grammar schools are almost exclusively for day pupils and the number of boarding places provided in such schools throughout the country is only about 1 per cent. The direct grant schools are also mainly for day pupils, but many of them have some boarding provision for pupils whose homes are outside the school area, all told, about 9 per cent of the pupils at such schools are boarders. In the independent schools, on the other hand, 70 per cent of the pupils are boarders. Transfer from one type of grammar school to another is always possible subject to a place being available, but in practice it is quite exceptional.

The frequently used term 'public school' is not current in the official documents of the Ministry of Education. It came into use in the early 18th century to describe those grammar schools of good standing, often originating in charitable foundations for poor scholars, to which well-to-do parents were beginning to secure entrance for their sons as boarders in preference to having them educated by a tutor or in a small private school. The term is now popularly used, with social as well as educational connotations, mainly in reference to the independent boarding schools for boys, but a more precise and generally agreed description, which includes most direct grant schools, defines a public school as one which is represented on the Governing Bodies' Association or the Headmasters' Conference. There are in fact about 190 such schools and their eligibility for representation on the organizations just mentioned depends upon how free their governing bodies are from outside control, on the proportion of senior pupils in the school, and on the number of their former pupils who have gone on to universities. By analogy the term 'public school' is used, though much less frequently, in reference to girls' grammar schools of comparable standing.

The statutory age below which a pupil is not permitted to leave school is 15, but the full grammar school course extends to the age of 18 or a little over. The most important stage in the education of grammar school pupils is the Vith form, which is entered at about the age of 16 and extends over two or three years. It is here that pupils can begin to develop their own special interests, learn to some extent how to work by themselves, and prepare for entry to the universities or the professions. Generally the Vith form is organized in sections with distinctive titles, e.g. classics Vith, science Vith, modern Vith, according to the main emphasis on a particular field of study. Some form of daily religious observance is a feature of all grammar schools and some schools of all three categories are particularly associated with the Anglican, Methodist or Roman Catholic denominations. In day schools the

activities of the day begin with a brief service of morning prayers conducted by the headmaster or headmistress in the school assembly hall, schools which provide for an appreciable number of boarders have their own chapel, sometimes a building of great beauty, where services are conducted by a chaplain who is generally a full member of the staff of the school.

Public education in Scotland, exclusive of the universities, is administered centrally by a government department, the Scottish Education Department, and locally by 35 education authorities. Many of the grammar schools in Scotland, though now often assisted from public funds, are old foundations endowed by benefactors by whose names they are still known (e.g. George Watson's College in Edinburgh), the newer ones, officially designated as senior secondary schools, have been established by the local authorities. Few of the older Scottish schools have developed a boarding side to any considerable extent. Some dozen or so schools (including several wholly for boarders and outside the official system) are represented on the Headmasters' Conference and are included in the list of public schools. Apart from the older grammar schools in the large cities, most schools are co-educational.

In Northern Ireland school education is administered by the Ministry of Education for Northern Ireland and by local education authorities. An important feature of the educational system is the number of schools which are managed by religious denominations though generously assisted from public funds.

ADMISSION. In Appendix III a comprehensive and detailed account of university requirements for entry to first degree courses will be found, but something may here be said about the broad outlines. To qualify for admission to a university in order to read for a degree, a prospective student must have passed an examination or examinations which satisfy the minimum academic requirements for matriculation. At Cambridge a specific matriculation examination known as the 'previous examination' can be taken, at Oxford the corresponding examination, known as 'responsions', was held for the last time in 1960. Except for the Queen's University of Belfast, the other universities do not hold a separate matriculation examination of their own, but rely entirely upon the results of examinations conducted in England and Wales by nine examining bodies approved by the Ministry of Education for the General Certificate of Education (G.C.E.). In Scotland the Scottish Education Department awards a Scottish Certificate of Education and in Northern Ireland the Ministry of Education awards a Senior Certificate, both of these are recognized by all universities as providing evidence which can be used for purposes of matriculation. It has to be noted, however, that the General Certificate of Education, the Scottish Certificate of Education and the Senior Certificate of Northern Ireland are intended to serve a variety of purposes, of which

qualification for university entrance is only one; and it is only under specified conditions that these certificates are accepted by universities. Thus, the subjects for the General Certificate of Education are examined at three levels of attainment: the ordinary level, which is taken at about the age of 15 or 16, and the advanced and scholarship levels, which are taken two or three years later, and in general the minimum entrance requirements for universities when based on the General Certificate of Education involve the passing of five or six subjects selected from a prescribed list, two at least of which must be passed at the advanced or scholarship level. Similarly there are special conditions under which the Scottish Certificate of Education and the Senior Certificate of Northern Ireland are accepted for university entrance.

Although the minimum entrance requirements of all universities are very much the same in principle, there are many differences in detail as between universities. The Scottish Universities Entrance Board, however, defines requirements which are common to the four universities in Scotland and the Northern Universities Joint Matriculation Board (which is also an approved examining body) defines those which are common to Manchester, Liverpool, Leeds, Sheffield and Birmingham. A partially successful attempt was made in 1948 to ensure complete interavailability of minimum entrance requirements, but it cannot now be assumed that the requirements laid down by one university will automatically be accepted at other universities. While it is still true to say that in very many cases it will be found that the passing of examinations which satisfy the minimum of one university will also satisfy most other universities, it is quite essential to enquire directly from the particular university concerned whether its own minimum entrance requirements have in fact been satisfied.

The satisfying of minimum entrance requirements does not for any university carry with it the right of entry; it is a general academic prerequisite and no more. Whether a person who has satisfied these minimum requirements will be admitted depends upon a number of factors. In the first place some faculties and departments require that particular subjects shall have been included in the qualifying examinations and often that they shall have been passed at the advanced level, e.g. mathematics at the advanced level is required generally for degrees in science and engineering and Latin at the ordinary level is widely, though not universally, required for an arts degree, and these particular faculty or departmental requirements can only be ascertained with certainty by consulting the calendars and prospectuses of the individual universities. Secondly, a bare pass even at the advanced level may not be thought to justify admission if the subject concerned is intended to be one of the candidate's main fields of study; the achievement in the qualifying examination must show clear promise of success in the university course. Thirdly, even though a student may have satisfied the general

university and the particular faculty and departmental requirements, and have reached a respectable standard in the crucial subjects, the limited number of places available may introduce an element of competition between candidates, and, indeed, special entrance examinations of a high standard are held by the majority of Oxford and Cambridge colleges and a few London ones to enable selection to be made from amongst the applicants. Furthermore, consideration is always given to confidential reports from heads of schools, and personal interviews are very frequently arranged before a final decision is taken about admission.

For certain courses of study for a first diploma or certificate in some universities it is not necessary to have satisfied the same kind of academic requirement as is demanded for courses leading to a first degree, this is particularly so in the case of those courses in subjects such as social science which are intended to be taken by rather older persons whose formal education has not followed the normal pattern or whose personal experience gives them special claims for admission.

To be accepted for postgraduate study and research leading to a higher degree, a candidate must in general possess a first degree which is relevant to his proposed field of study, though that degree need not in most cases have been taken in the same university. Whether an applicant is admitted to postgraduate study and research is a matter which in the first instance is within the control of the head of department concerned, but registration as a candidate for a higher degree has to be approved by the faculty or a special board of the university. The number of qualified applicants who can be accepted depends in departments of pure and applied science upon the accommodation available in research laboratories and in all departments on the number of members of staff who are free to supervise research.

Overseas students who wish to read for a first degree or a first diploma must submit evidence of academic attainments comparable to those demanded of British students and satisfy the university that their knowledge of English is adequate for the purposes of the course they wish to pursue, any documents they submit should be properly attested by a responsible educational authority in their own country. In the case of some countries, it is also advisable that applications should be submitted through the official representative in the United Kingdom of the country concerned. Each application is judged on its individual merits, but the number of vacancies is limited and, in general, overseas students are recommended wherever possible to take their first degree in their own country. Those who wish to pursue a course leading to a higher degree or diploma must submit evidence of their attainments to the satisfaction of the head of the department concerned and of the university.

STRUCTURE OF DEGREE AND DIPLOMA COURSES
In the interests of clarity it is essential to refer to the degrees awarded by United Kingdom univer-

sities as being either first degrees or higher degrees. In the actual nomenclature of degrees there is a very confusing diversity—for example, BA and BSc are the titles of first degrees in arts and science respectively in most universities, but at Oxford and Cambridge the BA is awarded to students of both arts and science; in Scotland the first arts degree is called MA, at Oxford the BSc is a higher degree, but at Cambridge the title BSc is not used at all, and at Oxford and Cambridge the MA is granted without any further course of study or examination to any BA of the university after a specified number of years and on payment of a fee. The courses of study for a first degree demand full-time attendance at the university except in the case of evening students at Birkbeck College of the University of London and candidates for the external degrees of London. The period of study for a first degree in arts and science is a minimum of three years and may be four, in other faculties and for some professional courses, such as architecture in the faculty of arts, the period is generally longer and in the case of medicine and dentistry may be as much as six years. Exemption from first-year lectures and examinations is sometimes available on the basis of passes at the advanced level of the General Certificate of Education; but no first degree is awarded until the completion of three years of university study. It is only very exceptionally that a student transfers from one university to another during his course of study for a first degree, the credit allowed to him for courses previously taken depends upon the regulations of the university to which he transfers and upon the individual case, and in no circumstances, not even if he already has a first degree of another university, can he graduate without at least two years' full-time attendance at the university to which he goes.

In the faculties of arts and science the curricula and the first degrees awarded are of two main kinds—those which involve the study of a number of subjects not all of which need be pursued for the whole three years and in none of which is very highly specialized work required; and those which concentrate on a single field of study and its immediate ancillaries. The first of these types of degree is designated as *pass* or *ordinary*, and success depends upon the passing of the various subjects separately at the appropriate standards, failure in a subject can be retrieved by re-examination or by the substitution of another approved subject. The second type is called *honours* and is further particularized by mention of the field of specialization, e.g. honours in classics, history, natural science, physics, etc.; success depends upon the candidate's performance in a comprehensive final examination (known at Oxford as 'schools' and at Cambridge as the 'trips') which can be attempted on only one occasion, successful candidates are normally awarded their degree as class I, II or III, the second class often being divided into two sections, the unsuccessful are either awarded a pass degree or allowed some

credit towards the requirements for such a degree. In some universities the two types of degree are known as *general* and *special* respectively, and it is there possible for distinction or honours to be awarded for exceptional merit in the examination for the general degree. Since the curricula for the two kinds of degree in arts or science diverge considerably, it is usual for a student to be admitted to an honours or special course immediately on entry to the university or possibly at the end of his first year. In other faculties the courses of study for the ordinary and honours degrees are not so distinctive in the earlier years at least, and in some instances, e.g. medicine, there is indeed a final examination common to all students on the results of which a candidate of unusual merit may be awarded his degree with honours.

The courses for first diplomas and certificates are relatively simple in structure. Usually there is a closely defined curriculum covering one or two years which is followed by all candidates for a given award, though exemptions may be granted from particular parts of the course on the basis of previous attainments or experience. Most courses demand full-time attendance but some, e.g. in public administration, are part-time and extend over a longer period.

Higher degrees can be divided into three categories: master's degrees, the doctorate in philosophy (PhD or DPhil), and the senior doctorates. Candidates for a master's degree (e.g. MA, MSc, etc., with which should be classed the BPhil and BLitt of some universities) are normally required to possess a first degree, though it need not have been gained in the same university. Work for the degree most generally involves full-time attendance at the university for two years, it may involve the taking of special courses of study and seminars, it almost always involves the writing under supervision of a thesis or dissertation on some particular topic within the student's special field of interest, a written examination is sometimes required in lieu of or in addition to a dissertation, and an oral examination is rarely dispensed with. It is possible, however, in many universities for a mastership to be awarded on the basis of a thesis to a person who has taken a first degree at that university (but not elsewhere) without further full-time attendance. The degree of PhD, which is common to all faculties and for which a first degree (or an approved equivalent, e.g. a diploma in technology awarded by the National Council for Technological Awards) is a prerequisite, is awarded after two or, more frequently, three years' full-time work within the university; though attendance at seminars may be required, the main test is the writing of a thesis which makes an original contribution to knowledge, an oral examination is very commonly required. In many universities members of the teaching staff are eligible for the degree of PhD under special conditions. The senior doctorates, which are designated on a faculty basis (e.g. DLitt, DSc, MD, etc.) and for which the possession of at least a master's degree is a normal prerequisite, are awarded to more

mature and established workers solely on the basis of published contributions to knowledge.

Higher diplomas, *e.g.* in various branches of technology, in public health, etc., may be awarded, according to the subject and the university, either on a full-time or less frequently on a part-time basis. The possession of a first degree or first diploma is the normal prerequisite, attendance at formal courses of instruction with the passing of a written examination is the basis of the award, and a dissertation is not required. A certificate or diploma in education is awarded after one year of full-time study to graduates who are training to become teachers.

Except at Oxford and Cambridge where the examining is mainly done by panels of teachers drawn from the various colleges, one or more external examiners for each subject are appointed from the staffs of other universities to take part in the assessment of the work of candidates for a first degree or first diploma. This system helps to ensure a uniformity of standards throughout the universities. For all higher degrees a small panel of two or three persons, one at least of whom is from another university, is appointed to adjudicate on the dissertation or published work and, when necessary, to conduct an oral examination.

STAFF The normal grades of the teaching staff are professor, reader, senior lecturer, lecturer, assistant lecturer and demonstrator. In most university departments there is only one professor who is responsible for the organization of the instruction given in his subject and, where laboratories are involved, for the requisitioning and proper use of materials and equipment. In some of the pure and applied sciences the various branches are organized as separate departments, *e.g.* physical chemistry alongside of organic chemistry. When there are two or more professors in a single department, one of them is either permanently or for a period in administrative charge. The titles 'associate professor' and 'assistant professor' have never had any wide currency in the United Kingdom and are now very exceptional. Until the end of the second world war, the title of reader was mostly conferred on persons in independent charge of a subject or branch of a subject for which a professorship and separate department were not yet provided or alternatively on persons who had quite unusual distinction in a particular field of work, and in status the reader had precedence of a senior lecturer. Since 1945, however, in some universities the title of reader is awarded more readily than formerly in recognition of merit in research and the distinction between the two grades in status and salary is becoming less significant. At present the number of readerships and senior lectureships combined is restricted, in accordance with an understanding reached with the University Grants Committee, to about 22 per cent of the total full-time non-professional teaching staff. Lectureships represent the career grade in university teaching and

the maximum salary (now £1850) is reached at about age 40-45; but a lecturer has a reasonable prospect of securing promotion to a higher post in his own or another university. The post of assistant lecturer is usually held on an annual basis for three years and is regarded as being either temporary, and so not renewable after three years, or probationary, in which case promotion to a lectureship follows. Demonstratorships in most universities are temporary posts normally held for only one or two years. Most of the teaching work of the universities is done by full-time members of staff, of whom in 1959-60 there were in England, Scotland and Wales 1555 professors, 850 readers and independent lecturers, 1372 senior lecturers, 5578 lecturers, 1338 assistant lecturers and demonstrators and 1105 persons in other subsidiary categories, these figures, however, exclude 712 lecturers, assistant lecturers and demonstrators at Cambridge, and 419 at Oxford, who combine university with college work, they also exclude those college tutors who hold no university appointment. In some special departments and faculties, notably in medicine, an appreciable amount of instruction is given by part-time members of staff. It is impossible, therefore, to give precise figures for staff-student ratios, but, taking full-time staff alone, the proportion varies from 1:7.5 to 1:10.5 according to the special circumstances of an individual university or faculty.

At Oxford and Cambridge the traditional method of undergraduate instruction is the tutorial, a device which demands a high ratio of staff to students and imposes a heavy burden on the teacher. Every junior member of a college is placed by the college in the care of a senior member of the university who guides his studies, suggests to him what books he should read, what lectures if any he should attend, sets him essays and other written work, and week by week discusses with him, either individually or in small groups, what he has read and the work he has written. At the end of a term or vacation a more rigorous but still informal probing by the college may take place into a student's progress. Both the university and the colleges provide an abundance of formal lectures open to all members of the university, but attendance at them is not made compulsory by any regulation. In the case of science subjects involving experimental work in laboratories the instruction is inevitably more formalized than in the humanities.

In the other universities in general the basis of undergraduate instruction is the formal lecture, reasonable attendance at which is compulsory, in some of the more popular subjects in the larger universities a class of a hundred or more is not abnormal. The amount of written work which can be demanded from the students and dealt with by the staff differs greatly from subject to subject. The virtues of a more intimate form of instruction have, however, long been recognized, and wherever the ratio of staff to students permits, small tutorial groups to supplement or replace

formal lectures have become a normal part of the programme of instruction. Written 'terminal' examinations are usually conducted by the departments at least once within the session and there is normally a statutory university examination in some part of the student's curriculum at the end of each session.

Candidates for postgraduate degrees involving research are in all universities assigned to the care of a supervisor who helps in the selection of a topic within the candidate's chosen field and places his experience as an original investigator at the disposal of the student. The departmental seminar for the reading and discussion of papers written by the students and for surveys of current progress in the subject is often an important part of the postgraduate training.

It is frequently stated that about a third of a university teacher's time is or should be available for his own researches. During term the pressure of teaching duties and, in the case of the more senior members of the staff, of administrative and committee work, often make it difficult to achieve anything like this standard, and investigations which demand continuous application have often to be reserved for vacations. Conditions differ, however, very greatly not only from university to university but from one department to another. In this connexion it may be noted that there is no established practice of granting sabbatical leave, but members of staff are fairly frequently released for a term or their teaching load is reduced in order to enable them to finish a particular piece of original work or widen their experience.

The salaries of the academic staffs of universities are based on scales or ranges approved for purposes of grant by the Treasury after consideration of recommendations of the University Grants Committee to whom representations are made from time to time by the universities and the Association of University Teachers. At present in faculties other than medicine a professorial salary is within the range of £2600 to £3600, that of readers and senior lecturers may have a maximum of £2425 or in special circumstances £2525, that of a lecturer rises from £1050 by annual increments of £50 and later of £75 to £1850 (extended to £2000 for a limited number of posts), and that of an assistant lecturer rises from £800 by £50 annually to £950. For posts in London an additional allowance of between £60 and £100 is paid, according to grade. The salaries of clinical professors rise to £3900. The salaries of medically qualified non-professional teachers in the faculties of medicine are higher than those in other faculties and there is a uniform annual increment of £100.

Superannuation for members of the academic and senior administrative staffs of all United Kingdom universities has, since 1919, been dealt with under the Federated Superannuation System for Universities (F.S.S.U.). The institution contributes a sum equivalent to 10 per cent. of the member's salary, the member himself contributing 5 per cent. The combined sums are paid as premiums on insurance policies of various types

(endowment assurances, deferred annuities, etc.). To meet his individual requirements, the member has the choice between a number of policies issued by an approved list of insurance companies. If he moves to another institution within the scheme he takes his accrued rights with him. The policies mature in the member's 60th year and the capital and further contributions then accumulate interest until the actual date of retirement (normally at 65 in most universities in England and Wales, but at 67 in Oxford, Cambridge, Liverpool, London and Manchester and, for professors, at 70 in the Scottish universities). The capital available on retirement is normally used for the purchase of an annuity of a kind appropriate to the circumstances of the member, though it is within the discretion of the institution to agree to other arrangements. It is inherent in the scheme that the amount of the annuity is directly related to the totality of a member's emoluments during his whole career as a university teacher, and bears no necessary relationship to his salary at retirement. To alleviate the hardships which arise under F.S.S.U. in a period when costs of living have been rising, the Treasury approved some years ago a scheme for a modest supplementation of F.S.S.U. annuities. In 1960 a new scheme was introduced whereby the supplementation is directly related to years of service and to the average salary received during the three years immediately preceding retirement.

When a person joins a university staff from some other service, any cash he is able to withdraw from another pension scheme may be accepted as a single premium under the F.S.S.U. towards an eventual annuity.

No generally applicable statement can be made about the method of filling vacant academic posts in universities. In the case of professorships at Oxford and Cambridge there is usually a formal announcement that a chair is vacant, and persons interested are invited to forward their names to the vice-chancellor for consideration by a duly constituted board of electors who need not confine their attention to the names submitted and whose decision is final. Elsewhere a variety of circumstances may determine whether a chair shall be advertised or filled on the basis of private enquiries; and a mainly or wholly academic *ad hoc* committee, variously constituted in different universities, makes a recommendation to be confirmed by the appropriate higher bodies. A small number of chairs (mostly in the older subjects) at Oxford and Cambridge and in the Scottish universities, known as regius professorships, are within the patronage of the crown, but it is believed that academic advice is normally sought before appointments are made to them. In all universities many chairs are specially associated with the names of benefactors, etc. (e.g. the Wykeham professorship of logic at Oxford). Many posts as reader, senior lecturer and lecturer are filled by promotion from within the university, but a considerable number are publicly advertised and appointments are made on the recommendation of a committee of the faculty concerned.

The majority of posts as assistant lecturer are advertised. When an important post is advertised many universities take steps to ensure that the announcement is made not only at home but overseas. In no U.K. university is there any restriction as regards nationality, religious belief or political opinion to debar candidates from appointment. The overwhelming majority of university teachers have in fact taken their first or a higher degree in a U.K. university, but apart from Oxford and Cambridge, each university has on its staff a substantial number, and generally an appreciable majority, of teachers who have graduated at some other university in the U.K.

STUDENTS In 1959-60* there were 104,009 full-time students in the universities of the United Kingdom (apart from Belfast), of these 83,083 were reading for a first degree and 3605 for a first diploma, 16,649 were engaged in research or other advanced work (including 3585 who were taking the postgraduate course for a teacher's diploma), and 672 were attending courses not leading to a degree or diploma. Of these full-time students, 6443 came from overseas Commonwealth countries and 4208 from foreign countries. The number of men students was 79,037 and of women 24,972. The over-all percentage of those in arts faculties was 43, in science and technology 39, in medicine and dentistry 14.8, but for the students engaged in research and advanced work (apart from teachers in training) the percentages were 35.1, 53.2 and 8.5 respectively.

The number of part-time students in 1959-60 was 15,932 of whom 2545 (mostly evening students) were reading for a first degree or first diploma, 5637 were engaged in research or advanced work and 7750 were 'occasional' students taking intra-mural courses (including 'refresher' courses) not leading to a degree. Of the part-time students 2400 came from overseas Commonwealth countries and 2068 from foreign countries. Of the 5637 part-time advanced students 38.5 per cent were in arts, 14.3 per cent in science and technology and 46.3 per cent in medicine and dentistry.

The number of full-time students residing in colleges or halls of residence in 1959-60 was 27 per cent of the total, in lodgings 50.3 per cent and at home 22.7 per cent, of the men 22.9 per cent were in colleges or halls, 54.1 per cent in lodgings and 23 per cent at home, the percentages for women were 40.1 in colleges and halls, 38.3 in lodgings and 21.6 at home. These figures, however, need further interpretation. At Oxford and Cambridge (where the number of home students is quite insignificant) all lodgings used by students who cannot be accommodated within their college are approved by the authorities, and students who live in them dine regularly in their college, participate fully in the life of the

college and are under the academic supervision of the college. At Oxford 49.4 per cent live in college and 50.6 outside, at Cambridge the percentages are 54.8 and 45.2. Apart from Oxford and Cambridge (and Durham) the provision which universities themselves make for the accommodation of their students is by way of halls of residence which are in the charge of a resident warden appointed by the university, the warden is in most cases a full-time or part-time member of the academic staff of the university and is assisted in hall by a small number of resident tutors drawn from the staff. The students who live in hall take their main meals there, use the common-room and library facilities provided and enjoy the full benefits of a corporate life in a homogeneous community with an ethos of its own. There are two major respects, however, in which halls differ from the colleges of the older universities: though the warden and tutors take a keen interest in the personal welfare of the students in residence, it is no part of their function to supervise their studies, and when a student ceases to reside in hall he has few, if any, continuing rights or obligations, and, except in the most favourable circumstances, his connexion with it ceases, even though he may still be a student within the university. The provision of halls varies very greatly. e.g. in the Durham Colleges 63.5 per cent of all the students are in halls, at Reading 55.2, at Bristol 26.5, in Wales 26 (Aberystwyth 40, Cardiff 15.3), at Newcastle 21.6, in London 18.3, at Leeds, Liverpool, Manchester and Sheffield 14.5 to 17, in Scotland 11.4 (colleges in St Andrews 52.5, Aberdeen 0.9), and at Birmingham 11.8. In a number of these universities, however, the percentage is likely to rise in the near future as new halls are completed. Outside of Oxford and Cambridge the lodgings used by women not living in hall or at home must be approved by the university; men are generally free to make their own arrangements, though lists of approved lodgings are usually available.

Social life at Oxford and Cambridge centres in the college, and within each college there are athletic, debating and other societies confined to members of the college. Almost all colleges have their own athletic grounds. There is also a great proliferation of university societies open to all members of the university who wish to join; some of them are of long standing, others exist for a brief space and are heard of no more. Apart from the athletic and boating clubs and the dramatic societies, the best known are the Union at Oxford and the Union Society at Cambridge, both of which provide for their members a good library and the usual amenities of a club, but which are even more famous for their debates at which many who later achieved eminence in public life have first made their quality known. In most other universities there is a guild of undergraduates or students' representative council, the establishment

* The latest detailed figures published by the University Grants Committee in their official *Returns* relate to 1959-60; see also 'The Year' section of each university entry below.

of which is prescribed by charter. The students themselves elect their own officers to conduct the affairs of the guild. The social activities of the guild are centred in a union building, owned by the university but managed mainly by the students themselves, in which are provided dining-rooms, cafeterias, a library for leisure reading, a hall for debates and dancing, a gymnasium, lounges and quiet rooms. Normally there is a single union for men and women; in some places student meals are provided in a refectory run by the university. Membership of the guild and the payment of the subscription to the union (at present about £6 per annum) are compulsory for full-time undergraduates. The major societies, debates and the athletic clubs are organized as part of the guild activities, and the other student societies, religious, political, literary, or departmental, hold their meetings in the union. Athletic grounds are provided by the university, but in large cities they are often some considerable distance from the union. In all universities there is an officers' training corps which is the responsibility of the army authorities and in some there is also an air squadron, membership of either of these is entirely voluntary.

Particularly since 1945 universities have developed student health services in order to ensure that a student's academic progress shall not be unnecessarily impeded through lack of medical attention, in some cases there are one or more full-time medical officers in charge of this work. The extent to which students are under an obligation to avail themselves of these services varies, but at least a general overhaul on admission and a chest X-ray are usually expected. Associated with the health services in almost all universities there is a voluntary or compulsory scheme of physical education for students. Care for other aspects of the personal welfare of students in non-residential universities is provided by some form of advisory service which ensures that a student who finds himself in some difficulty knows clearly to which member of the staff he may freely and confidently go for help and counsel. There is often a special adviser for overseas students. Most universities have at least one accommodation officer who has full charge of the lists of approved lodgings. There is also an appointments board with appropriate staff to help students to secure posts on graduation, and the good relations established between these boards and prospective employers of all kinds are of very great benefit to all concerned.

At Oxford and Cambridge the fees payable by a student include university and college dues, tuition fees and (if he lives in college) charges for rooms and meals; some colleges are more expensive than others, and living in lodgings is not necessarily cheaper than living in college. It is scarcely possible to reside at either university for the three terms each of eight weeks for much less than £350 even on the most economical basis. In the other universities the tuition fees are around £50 per session for an arts first degree course and

£60 for other faculties. Tuition fees for higher degrees average £30 per session, but £40 is charged when laboratory work is involved. In Scotland these fees are somewhat lower. The fees for first diploma courses are in general less than those for degree courses. The cost of residence in a hall for a session of thirty weeks is within the range of £140 to £160, but this sum often does not include the cost of lunches on weekdays. Reasonably good lodgings with partial board are not obtainable at much under £3 10s per week, and in some places the minimum is above this figure. Apart from clothing, travel and personal expenditures, an overseas student would be well advised to plan on the basis that the minimum cost of a university session together with vacation expenses would be between £500 and £550 according to the university he attended and the course he was taking.

A considerable measure of financial assistance is now available for university students. Until the end of the first world war a poor student in England or Wales could not hope to get to a university unless he won a competitive scholarship offered by one or other of the universities, was awarded one of the few grants which his local education authority might provide, or gained a leaving scholarship from his school, if it had any to offer. The open entrance scholarships and exhibitions founded by benefactors at Oxford and Cambridge colleges were (and still are) the hallmark of brilliant promise and correspondingly difficult to win. The other universities also had a limited number of open scholarships. In Scotland the situation was somewhat easier because of the resources of the Carnegie Foundation, which has, as one of its objects, the helping of needy students. Between the wars, however, the Ministry of Education instituted a system of state scholarships tenable at any university, and local education authorities expanded their schemes for scholarships and grants. Since 1945 the number of state scholarships and corresponding awards in Scotland have been very greatly increased, as have the local education authority awards. The Ministry of Education now supplements the value of all university open scholarships and exhibitions to that of state scholarships, and many local education authority awards are within the same range. In 1960 the Ministry awarded about 2500 state scholarships and supplemented about 1440 open university scholarships, while local authorities awarded about 17,700 scholarships or grants for university students. There is now an hierarchy of academic merit open award at Oxford or Cambridge, open award at other universities, state scholarship, local authority scholarship, local authority grant; but the actual financial reward which results is assessed in all cases according to the income of the family from which the student comes - to the poorer, more, to the richer, less. For a student who holds a state scholarship at Oxford or Cambridge the maximum maintenance allowance in addition to tuition fees is now £338, at London £305 and at other universities £280,

but the rates are somewhat lower for students in lodgings and still less for those living at home; in addition, a special vacation allowance of £20 (or £30 for Oxford and Cambridge students) per annum is payable in some circumstances and provision is made for certain courses of vacation study and for study abroad.

Following upon the report in 1960 of a committee appointed by the Minister of Education and the Secretary of State for Scotland, the government has decided that state scholarships (but not mature state scholarships) should be abolished after the selections to be made in the summer of 1962, and that awards should be made available automatically to all students admitted for the first time to university first degree courses who have two G.C.E. passes at advanced level or the equivalent. A Standing Advisory Committee on Grants to Students has been appointed by the Minister of Education and the Secretary of State for Scotland with these terms of reference: 'To consider and advise on questions arising from the system of grants to students from public funds which Ministers may refer to it'; one of its first tasks is to review the standard grants to students for maintenance, and to advise whether any changes in rates of grant should be made with effect from October 1962.

Financial support is also available for postgraduate students. In 1959-60 the universities themselves made 1100 research awards (called postgraduate studentships or fellowships) from their general funds or special endowments, the Department of Scientific and Industrial Research 1000, and the Ministry of Education 260 (in addition to extending the tenure of a number of state scholarships). Most of these awards are of the value of £300 per annum or over, and parental income is generally not taken into account. Funds donated by various research associations and by industry in support of the academic research of individual departments in universities can often be used by agreement to finance postgraduate students.

There are two important consequences of these arrangements for assisting students: first, stratified circumstances at home are no longer any serious barrier to a university education, and secondly, since the tenure of state and local education authority awards is not restricted to particular universities, students are free to go to the university of their choice if it is willing to accept them. Oxford and Cambridge can no longer be characterized as in the main the universities for the prosperous, and the civic universities no longer draw as large a proportion of their students as formerly from their immediate area. In 1959-60 the percentage of full-time students in Great Britain who were being assisted (mostly from public funds) was 82.4, at Oxford the percentage was 81.9, at Cambridge, 81.6, at London, 74.3, at the other English universities 89, in Wales 93.6 and in Scotland 73.4. It should be emphasized, however, that the maximum maintenance allowance is not awarded to

every assisted student. Exact statistics are not available, but it is estimated that under regulations in force from October 1961 about 40 per cent of university students will be receiving the maximum.

In recent years more and more students have taken paid employment for some part of the long vacation: some, e.g. engineers, do work which has direct relevance to their studies, but some others undertake jobs which are of little or no benefit either mentally or physically, some do the work to eke out their finances, some to secure the means for continental travel, some for the wider interest and experience they hope to gain thereby and some because of the sense of independence which the earning of money brings. The universities are alive to the dangers inherent in this trend, and, whenever possible, tutors seek to dissuade their students from unsuitable kinds of work and above all to restrict the number of weeks they devote to it at the expense of the reading they ought to do in connexion with their studies.

Since the length of first degree courses varies from three to six years it is not feasible to relate the proportion of students to national age groups in a really significant manner; it can be noted, however, that full-time students represent rather less than 1 in 500 of the whole population. By and large the universities at their present size are just about able to provide places for all applicants who can satisfy their standards for admission, though the competition for places is severe in a number of subjects.

ACADEMIC YEAR The academic year is divided into three terms of which the first (called the Michaelmas, Martinmas or autumn term) begins, so far as students are concerned, in the first week of October, the second (the Hilary, Candlemas or Lent term) in the second week of January and the third (the Easter, Trinity, Whitsun or summer term) in the second or third week of April. At Oxford and Cambridge the required period of residence is eight weeks each term, elsewhere each term extends over nine or ten weeks. The programme of undergraduate instruction at Oxford and Cambridge continues for the full length of each term, since only a part of the student body will be sitting university examinations at any one time, elsewhere most undergraduates have examinations in the second half of the third term and formal instruction comes to an end by the beginning of June. Most honours students at Oxford who have taken their final written examination in late May or early June have to present themselves for a *visa voce* examination in July, and it is only towards the end of that month that class lists are published, the Cambridge lists are made known about the middle of June, elsewhere examination results appear at the end of June. In all universities graduation ceremonies are held several times during each session, but except at the older universities of England the majority of degrees are conferred at large public ceremonies at the beginning of July.

SUMMER SCHOOLS, such as are a well-established feature of the academic year in the U.S.A., form no part of the British pattern. In a few instances and only rather sporadically special courses, e.g. in English studies for overseas students, are arranged, but whatever their content they do not count towards a United Kingdom degree or affect the number of normal terms to be kept before proceeding to such a degree. Students, however, who wish to continue their reading within the university during part of the long vacation can generally do so; and in the case of postgraduate students who need laboratory facilities arrangements are made for them to work throughout most of the summer.

EXTRA-MURAL CLASSES AND UNIVERSITY EXTENSION The concept that universities had some obligation to spread the gospel of learning widely throughout the community took really practical shape in 1873 when James Stuart, fellow of Trinity College, persuaded the University of Cambridge to organize university extension courses to be delivered up and down the country by members of the university. The educational movement thus started was also fostered by Oxford and the newer university colleges, and additional momentum was gained when in 1903 Albert Mansbridge founded the Workers' Educational Association (W.E.A.). The *Final Report* of the adult education committee of the Ministry of Reconstruction published in 1919 (and reissued in 1956 in an abridged form as *A Design for Democracy*) focused attention on the achievements up to that time and suggested many of the lines along which subsequent development has taken place.

Nearly all universities now have a department of extra-mural studies headed by a director who in a number of instances has the status of professor of adult education. The work of these departments is carried on partly by staffs of full-time tutors of whom there are about 250 in all, partly by part-time tutors (e.g. school teachers) and not least by members of other university departments. The courses, almost all of them conducted in the evenings, are arranged not only in university towns and the immediate vicinity but often in places at a considerable distance away, indeed wherever a need in adult education has to be met. Many universities have tutors resident in outlying areas, part of whose duty it is to assess and stimulate the demand for adult classes. In many of their activities the extra-mural departments work in close collaboration with the W.E.A.

Broadly speaking, three types of course have been developed: extension courses consisting of something between 3 and 18 lectures on a particular topic given by a single lecturer or by a team of lecturers; sessional classes which, generally under the guidance of a single lecturer, have weekly meetings from the end of September to the end of March; and tutorial classes each of which is planned as a three-year course and involves not only lectures but discussions and

written work. In the 1959-60 session almost 2400 extension courses and 1650 sessional classes were organized and 840 tutorial classes were in being, in all, nearly 100,000 students were enrolled. The fees charged to students are merely nominal. The courses most frequently given are in history, international affairs, government, social studies, philosophy, psychology, religion, musical history and appreciation, literature, the fine arts, and the physical and biological sciences. In recent years the departments have also organized 'refresher' courses for qualified scientists to help them to keep abreast of the newer advances.

It has hitherto been the policy of extra-mural departments and of the W.E.A. not to cater for vocational and professional qualifications or to duplicate the work of the evening classes provided by local education authorities; consequently, although written work is encouraged in the longer courses, only in a small minority of instances is any examination offered at the end of a course or any certificate awarded. There is no restriction on the membership of a course or any academic prerequisite: the sole requirement is a genuine interest in serious study, it is therefore not unusual to find the policeman, the housewife, the shop-assistant, the manual worker and the bank manager sitting side by side at an extra-mural class. A small number of scholarships are available, some of them provided by the Ministry of Education, to enable students who wish to carry their studies further to go on to universities. Mention should also be made here of the dozen or so residential adult education colleges up and down the country which provide full-time courses of a week or fortnight up to a few months' duration; with some of these colleges the extra-mural departments have a close though generally informal link.

The finances of the extra-mural work of the universities are somewhat complicated by the fact that some of the courses given qualify for a direct grant from the Ministry of Education or are assisted by local education authorities, but the proportion of the cost covered by the grants varies from case to case. When allowance is made, however, for such contributions it is estimated that the net cost met from general university funds is of the order of £250,000 per annum.

The *Universities Council for Adult Education* (hon. secretary and treasurer, W. E. Salt, OBE, MA BCom, department of adult education, University of Bristol, Bristol, 8) on which all universities are represented, publishes a brief *Annual Report* containing figures relating to the activities of extra-mural departments. The *National Institute of Adult Education (England and Wales)* has headquarters at 35 Queen Anne Street, London, W.1 (secretary, E. M. Hutchinson, MA, tel. Langham 3155). It is an independent consultative body which has a council representing universities, local education authorities and voluntary agencies. It convenes an annual conference and publishes quarterly *Adult Education* (annual subscription, 10s. 6d.).

INSTITUTES OF EDUCATION Since 1947 and arising out of the report of the McNair committee on *Teachers and Youth Leaders* (1944) most universities in England and Wales have established an institute of education to promote co-operation between the university, teacher training colleges, local education authorities and other educational agencies within the university area. The institute acts as an area training organization for the training of teachers on behalf of the Ministry of Education, conducts examinations recognized by the ministry for the teachers' professional qualification, arranges refresher and other courses, and fosters educational research. The director of the institute is a full-time university officer and often has the title and status of a professor. The committee of management of the institute includes representatives of the university, the training colleges, local authorities and practising teachers. The institute, however, has no responsibility for the control, financial or otherwise, of the individual colleges, which are maintained in the majority of cases by the local education authorities, though many are the responsibility of religious denominations. Throughout the country there are 118 colleges, with a total of 29,419 students, which provide a general course of education and pedagogical training. From 1960 the course of study in these colleges was increased from two to three years, and a programme of building has been approved for a considerable increase in the number of places. A further 40 or so colleges, with a total of 4155 students, give more specialized three-year courses in, e.g., physical education, domestic science. The students who attend these various types of college are admitted at the age of about 18 in accordance with standards of achievement in the General Certificate of Education approved by the ministry and the institute; and they are financially assisted, on the basis of parental income, by grants from public funds. The university's department of education, which is itself a constituent member of the institute, provides a one-year course of professional training for graduates who frequently migrate to another university for this year of training, in 1959-60 there were 3217 graduates attending these one-year university courses in England and Wales.

In Scotland the work of the colleges and centres for the training of teachers has since 1959 been co-ordinated by a Council for the Training of Teachers under the aegis of the Scottish Education Department. In 1960-61 there were just over 5233 students enrolled.

In Northern Ireland about 1521 students were enrolled in 1959-60 in colleges for the training of teachers.

INTER-UNIVERSITY ORGANIZATIONS The Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom is a consultative body with no executive powers. It originated in occasional meetings of the academic heads of universities convened for special purposes

and did not begin to take on its present shape and functions until after the first world war, when the need for more frequent inter-university consultation became apparent. It was formally established as a standing committee of what was then the Universities Bureau of the British Empire by the governing bodies of the universities in 1931, and its present constitution was approved and adopted in 1950. Its membership is confined to the vice-chancellors of the universities in England, Wales and Northern Ireland, the principals of the Scottish universities, the principal of the University of London and the principal of the University College of North Staffordshire. The pro-vice-chancellor of Durham, the principal of a second Welsh university college and the registrars of Oxford and Cambridge also attend. For a particular meeting a member may appoint a deputy to attend in his place, but rarely does so. The committee meets in London every month except in August. The chairman of the committee is elected annually and usually serves for three years in succession, the chairman for 1961-62 being Professor W. Mansfield Cooper, LL.M., vice-chancellor of the University of Manchester. The Association of Universities of the British Commonwealth (secretary, J. F. Foster, MA LL.D.) provides the secretariat for the committee towards the cost of which the home universities make a special contribution, and the official address for the committee is 36 Gordon Square, London, W.C.1 (tel., Euston 8372).

The function of the committee is simply to consider matters of common interest to universities, but it is not restricted to topics specifically referred to it. It is not empowered to commit the universities in any way and it studiously refrains even from appearing to do so; when matters arise which call for positive action or the formulation of a policy, all the committee can do or desires to do is to seek special authorization or make a recommendation which the universities individually may accept or reject. By its consultative activities, however, the committee holds an influential and central position in university affairs, for, apart from the initiative it frequently takes in making recommendations regarding a common policy on matters of purely internal concern to the universities, it is the channel through which not only the University Grants Committee but many ministries (e.g. education, health) which have contacts with the universities can ascertain the reaction of informed and responsible university opinion to proposals they have in mind or to problems they would like to discuss, and it is inevitable that the views which, within its terms of reference, the committee is willing to express should carry great weight with the outside agencies which consult the committee and with the authorities of the individual universities. The committee also, at its discretion, nominates representatives, not always from within its own membership, to outside bodies with educational interests, and from time to time it enters into informal discussions with such bodies as the Association of University

Teachers and the Headmasters' Conference Since 1946 it has organized an annual Home Universities Conference, held in London in December, at which a widely representative gathering of university teachers, administrators and members of governing bodies discusses broad topics of current interest. The committee issues no report or annual statement, occasionally it sponsors special inquiries which are published, e.g. *The Planning of University Halls of Residence* (Clarendon Press, Oxford, 1948), *Report on an Inquiry into Applications for Admission to Universities* (1957). A *Report of an ad hoc Committee on Procedure for Admission of Students* was published in 1958 and further Reports in 1960 and 1961. These reports (except the first) are published for the committee by the A.U.B.C. as are also the verbatim reports of the proceedings of the Home Universities Conferences and a *Code of Practice for the Protection of Persons exposed to Ionizing Radiations in University Laboratories* (1961).

The Association of University Teachers (A.U.T.), a professional association established at the end of the first world war, has as its objects 'the advancement of university education and research, the promotion of common action among university teachers, and the safeguarding of the interests of its members'. Membership is open to all full-time teachers (including professors) and research workers in institutions of university rank in the United Kingdom, the proportion of eligible members of staff who belong to the association varies from university to university, but the total membership is such that the association has been accorded the right of making direct representations to the University Grants Committee on salary matters. The work of the association is conducted through local branches and a central council. The hon. general secretary is Lord Chorley and the executive secretary is K. Urwin, MA DU, Laurie House, 21 Dawson Place, London, W.2 (tel. Bayswater 9011). The interests of the association range over a wide variety of topics including university entrance requirements, selection of students, organization of curricula, student health, inter-library services, sabbatical leave, international co-operation at university level, salaries, income-tax and superannuation. From time to time it issues reports to its members on these subjects, and it publishes twice-yearly a *Universities Review* (editor, Professor C. M. MacInnes) which contains articles on university matters and information about appointments to and resignations and retirements from university posts.

The National Union of Students (N.U.S.), founded in 1922, is a body to which are affiliated the guilds of undergraduates and student representative councils in most of the universities of England, Wales and Northern Ireland, to it also belong similar student associations in certain other institutions of higher education (teachers' training colleges, technical colleges). Its purpose is to provide a focus for the expression of the corporate opinion of students on matters which

they feel to be particularly their concern, its main interests are in entrance requirements, curricula, maintenance grants and fees, student health, halls of residence and other student accommodation, and international co-operation at the student level, it also arranges for student travel and for vacation work. It has a small permanent secretariat (3 Endsleigh St., London, W.C.1, tel. Euston 2184), its affairs are managed by a council on which the affiliated guilds are represented, and it organizes an annual congress, held in a university centre, at which several hundred delegates and others discuss current student problems. In Scotland there is a separate National Union of Students.

THE UNIVERSITIES TO-DAY. In the 1938-39 session there were 50,250 full-time students in the universities of Great Britain, of these 44.7 per cent were in arts faculties, 25.9 per cent in faculties of science and technology and 29.4 per cent in the other faculties. Immediately after the war preference in admission was given to ex-service men and women and there was a great influx of such students, some of whom were returning to resume their interrupted studies while others were enabled by generous grants to embark upon a university course which they had not previously contemplated. By 1949-50 the total number of students had consequently risen to 85,400. It had at first been thought that the great increase in numbers would be temporary and that, allowing for some 'normal' expansion, universities would eventually settle down to a total of about 70,000. In May 1946, however, a government inter-departmental committee under the chairmanship of Sir Alan Barlow published a *Report on Scientific Manpower* which called for a drastic increase in science and technology graduates together with a corresponding increase in the humanities. From that time onwards the universities have accepted the need for a considerable permanent expansion; their numbers have never fallen below 80,600 (in 1953-54), and with the assistance of Treasury non-recurrent grants they have made some appreciable progress towards the provision of new academic buildings and halls of residence, though they are not yet satisfied that the rate of building has been sufficient to keep up with the demands that face them. The balance of the faculties has changed during these post-war years: in arts there are now 43 per cent, in science and technology 39 per cent, and in the other faculties 18 per cent.

In October 1956 the government published a report on *Scientific and Engineering Manpower* which emphasized once again the need from the point of view of the national welfare for a further increase in the number of university persons trained in the pure and applied sciences. The target for expansion was then fixed as 124,000 to 125,000 full-time students by the middle 1960s, and it was proposed that two-thirds of the expansion should be in science and technology. Early in 1960, after a reassessment of the probable

need for university places, the University Grants Committee was authorized to discuss with the universities the practicability of providing 170,000 to 175,000 places by the early 1970s as a minimum first instalment, and plans for expansion on this scale are currently under consideration. This could mean that by 1970 in arts there would be about 35 per cent, in pure and applied science 52 per cent and in the other faculties 13 per cent. In other words, science and technology would then occupy the predominant position which arts had in 1938-39, but the humanities themselves would nevertheless be stronger in absolute numbers than the pure and applied sciences are at the present time. The prospect of this further change in the balance of faculties causes some anxiety, and much thought is being given to the problem of ensuring that, whatever faculty a student enters, his education at the university shall be as broadly based as possible. In this connexion considerable attention is being paid to the relation between studies in the Vth form at schools and the university curriculum.

The future supply of students who can meet the standards set by the universities for admission will be affected by two important factors. In the early 1960s the effects of the war-time increase in the birth-rate will be felt at the university age, for every 100 people aged 18 in 1957 there will be 144 in 1964. And since 1956 the annual number of births has again shown a marked upward trend. The other factor is that in recent years there has been an annual increase of 5 per cent. in the number of grammar school pupils who stay on to complete the Vth form course and so qualify for university entrance. The cumulative effect of these two factors is likely to be such that the problem of the universities will not be the supply of applicants but the selection of those best fitted to enter. This complex problem of achieving the most satisfactory selection procedures is one which has engaged the attention of the universities continuously since 1945. What emerges from all discussions of selection problems is that the development programmes of the universities as regards both academic buildings and halls of residence are urgent, and even the increased provision for capital expenditure announced for 1960-1963 will do no more than meet the cost of top-level priorities. It is anticipated also that there will be real difficulty in recruiting a sufficient number of properly qualified staff, especially in the sciences, in the face of competition from industry and government departments, yet the universities must have the teachers to enable them to cope with the increased numbers from whom eventually an enhanced supply of university teachers may be expected.

Finally a word may be said about the distribution amongst the universities of the forthcoming expansion. A simple uniform percentage increase is scarcely feasible. Oxford already has 3870 and Cambridge 3066 more students than they had in 1938-39, and it is realized that any further large increase would either wreck the collegiate system

or involve the foundation of new colleges. In 1958 proposals were approved at Oxford for the establishment of a new college as a development of the existing St Catherine's Society and at Cambridge for a new foundation to be called Churchill College. Each of these will provide for about 400 students and each will cost between £2,000,000 and £3,000,000 to build and endow. An effective solution of the general problem of university expansion, however, cannot be found on as high a cost basis as £5000 per student place. On the other hand, there are 10 institutions including constituent colleges of federal universities (apart from London) whose present student population lies between 1000 and 1600, but even if these were willing to double their capacity within the next few years and given the resources to do so, there would still be a prospective deficiency of the order of 50,000 places. The immediate burden of meeting the growing demand is therefore likely to fall on those institutions which now have between 2000 and 4500 students. Developments along these lines have been agreed by the universities and the University Grants Committee, and their implementation now depends on the provision by the Treasury of funds for the building of laboratories, classrooms, libraries, halls of residence and student amenities.

A more fundamental alleviation of the problem will have to be found in the foundation of new universities analogous to the new University of Sussex at Brighton. The granting of a charter to a new institution of university rank is a matter for the royal prerogative. The financing of such an institution, however, would in modern conditions fall mainly on the Treasury, which would wish to satisfy itself about the proposed location, the availability of a suitable site and the measure of local enthusiasm and support on which the institution could rely. The University Grants Committee therefore set up in 1959 its own sub-committee on new university institutions. In general the policy adopted by the U.G.C. is that new institutions should be multi-faculty and should from the start have the power, under proper safeguards for academic standards, to grant both first and advanced degrees. In March 1960 the U.G.C. recommended to the Treasury that steps should be taken to establish new universities in Norwich and York, from both of which cities formal applications had been received. In both cases academic planning boards, consisting of eight or so persons most of whom are eminent in education, have already been appointed to be responsible for the preliminaries necessary for the effective inauguration of the institutions. The vice-chancellors have also been appointed, discussions are taking place as regards curriculum and it is anticipated that the first groups of students may be arriving in 1963 or 1964.

During 1961 the University Grants Committee considered the formal applications made by ten other localities, together with tentative approaches from eight more. In consequence decisions have been taken to set up new universities in Canter-

bury, Colchester, Coventry and Lancaster. An authoritative account of the principles and procedures involved in the foundation of these new universities will be found in the *UGC Returns* for 1958-59 and 1959-60.

OTHER PROVISION FOR HIGHER EDUCATION An entirely false impression would be formed if it were thought that higher education in the United Kingdom is confined to the provision made in universities, indeed an appreciable amount of work which is elsewhere done within universities is here done in other institutions. In England and Wales alone, in addition to students in universities and in teacher training colleges associated with university institutes of education (*see above*), there were in 1960, of the age of 18 or over, 53,500 full-time, 242,000 part-time day students and 607,000 evening students taking courses in colleges of technology, technical colleges and other recognized vocational institutions (*e.g.* colleges of art, of agriculture, of commerce). When these figures are compared with the 15,000 or so full-time students of technology in universities, the importance of this other provision in the educational system of the country will be realized. Apart from the Manchester College of Science and Technology, which is partly financed through the University Grants Committee, there are 6 specialized 'national colleges' (*e.g.* for biology, rubber technology), 10 institutions designated as 'colleges of advanced technology' (CATs) and 22 regional colleges of technology; in addition there are over 500 other recognized establishments of higher education which vary considerably in size and importance. All, however, are maintained or aided from the public funds administered by the Ministry of Education and local education authorities; but the colleges of advanced technology are about to be placed in charge of independent governing bodies which will receive grants direct from the ministry. In order to improve and expand the provision for technical education, especially where advanced work is or could be done, the government embarked in 1956 on a five-year building plan (including some provision for hostel accommodation) which will cost £70,000,000. In Scotland and in Northern Ireland also, comparable provision is made for higher education in institutions other than universities.

Though there are in general no formal academic prerequisites for entry to technical colleges corresponding to the minimum university entrance requirements, many full-time students with suitable attainments are assisted financially, the Ministry of Education having increased in 1958 the number of their technical state scholarships to 254 and the local education authorities the number of their awards to 12,000. Of the part-time day students over the age of 18 about 80 per cent are released by their employers to attend vocational and other courses for one or more days each week. Most of the senior and advanced courses prepare students in a wide range of subjects for the exam-

inations of the City and Guilds of London Institute or the regional Examining Unions, or for an Ordinary or Higher National Certificate. In a minority of instances students present themselves for an external degree of the University of London. In 1956 there was also established on a national basis a diploma in technology (DipTech) which is intended to represent a level of achievement comparable to an honours degree in a university, and universities in general have agreed to regard the holder of the diploma as being *prima facie* qualified to enter on a course leading to a higher degree in pure or applied science.

Mention should here be made of the appointment early in 1961 by the prime minister of an influential committee under the chairmanship of Lord Robbins to enquire into the present state and future scope and organization of the whole field of higher education in Great Britain, including universities, teacher training colleges and colleges of technology. The findings of this committee when promulgated are likely to be of crucial importance.

In Scotland, corresponding broadly to the colleges of technology and similar institutions south of the border, there are 16 institutions (including the Glasgow Royal College of Science and Technology, which is on the University Grants Committee's list) which arrange advanced or specialized courses and about 75 other further education centres. In all, some 12,500 full-time students over the age of 18 are enrolled, together with about 35,300 part-time day students and 218,000 evening students.

In Northern Ireland nearly 4000 full-time, more than 7000 part-time day students and more than 32,000 evening students are enrolled at 165 centres of technical instruction.

FURTHER INFORMATION (*see also* Appendix VI and the 'Publications' section in each university entry below). The following select list of official and other publications may be consulted for further information on the topics dealt with above.

University Grants Committee:

University Development from 1935 to 1947 (H.M.S.O., 1948).

University Development Report on the Years 1947 to 1952 (H.M.S.O., 1953, cmd 8875).

University Development, 1952-1957 (H.M.S.O., 1958, cmd 534).

Returns from Universities and University Colleges in receipt of Treasury Grant. Academic Year 1959-60 (H.M.S.O., 1961, cmd 1489); earlier annual reports are also available.

Ministry of Education

Education in 1960, being the Report of the Ministry of Education and Statistics for England and Wales (H.M.S.O., 1961, cmd 1439).

Scottish Education Department.

Education in Scotland in 1960 a Report of the Secretary of State for Scotland (H.M.S.O., 1961, cmd 1359).

Public Education in Scotland (H.M.S.O., 1958).

Report of the Ministry of Education (N.I.), 1959-60 (H.M.S.O., 1960, cmd 423).

The Universities of Europe in the Middle Ages, by H. Rashdall (3 vols., ed. F. M. Powicke and A. B. Emden, Oxford U.P., 1936).

Universities in Britain, by Sir James Duff (for the British Council, Longmans, Green & Co., London, 1959).

Higher Education in the United Kingdom a

Handbook for Students from Overseas (for the British Council and the Association of Universities of the British Commonwealth, Longmans, Green & Co., London, 1962).

Civic Universities, by W. H. G. Armytage (Ernest Benn, London, 1955).

Red Brick University, by Bruce Truscot (Pelican Books, 1951).

Universities, American, English, German, by A. Flexner (Oxford U.P., 1930).

University Extension, by W. H. Draper (Cambridge U.P., 1923).

The English Universities and Adult Education, by S. G. Raybould (London, 1952).

History of University Reform, by A. J. Tillyard (Cambridge U.P., 1913).

INTER-UNIVERSITY COUNCIL FOR HIGHER EDUCATION OVERSEAS, 29 Woburn Square, London, W.C.1 (tel. Museum 8916). *Chairman*—Sir Charles Morris, MA LLD DLitt. *Secretary*—I. C. M. Maxwell, MA. The Inter-University Council was constituted in 1946, at the invitation of the secretary of state for the colonies, by the universities of the United Kingdom and colonial institutions of full university status. Its terms of reference are those recommended by the Asquith commission on higher education in the colonies. The general purpose of the council is threefold:

- (a) to strengthen co-operation between the universities of the United Kingdom and the universities already existing in colonial territories,
- (b) to assist in the development of university colleges in the colonies with a view to the attainment of full university status,
- (c) to assist generally by giving advice and by taking other action to promote university education and research in the colonies.

In 1954 the responsibilities of the council were extended at the request of the secretary of state for Commonwealth relations to include university education in the Federation of Rhodesia and

Nyasaland. More recently countries such as Nigeria and Sierra Leone have achieved independence within the Commonwealth but the relationship between the university institutions in those territories and the Inter-University Council remains close.

The council consists of one representative of each of the universities, together with co-opted members and the educational adviser to the secretary of state for the colonies, Sir Christopher Cox.

COLONIAL UNIVERSITY GRANTS ADVISORY COMMITTEE, 29 Woburn Square, London, W.C.1 (tel. Museum 8916). *Chairman*—Sir Hector Hetherington, KBE, MA LLD DLitt DsL. *Secretary*—I. C. M. Maxwell, MA. The committee was constituted in 1946 by the secretary of state in accordance with a recommendation of the commission on higher education in the colonies. It is charged with the duty of advising the secretary of state on expenditure of United Kingdom funds on the development of higher education in the colonies. The committee works in close co-operation with the Inter-University Council, upon which it relies for advice on the academic aspects of proposals under consideration.

DIRECTORY TO SUBJECTS OF STUDY*

FIRST DEGREES. All universities (except North Staffordshire and Sussex) award first degrees with honours, or special degrees, in the following subjects: botany, chemistry, classics (Greek and Latin), economics, English, French, geography, geology, German, history, mathematics, philosophy, physics, zoology.

The Table on pages 802-805 shows which universities provide first degree courses in certain other subjects. In some cases, courses of instruction leading to degrees which, though having the title of bachelor, are in fact open only to

graduates, are also indicated in the Table, and references have been included to degrees of bachelor of education and bachelor of divinity.

The symbol ✓ means that the subject mentioned may be studied as part of the course leading to a first degree.

The symbol * means that the subject forms a main part of the course leading to a first degree, and that a degree (usually—but not always—a degree with honours or a special degree) can be obtained in that subject either alone or in combination with one or two other principal subjects.

* Note.—A fuller directory is to be found in *Higher Education in the United Kingdom a Handbook for Students from Overseas* (Longmans, Green & Co., 1962).

UNITED KINGDOM DIRECTORY TO SUBJECTS OF

<i>For an explanation of the symbols used, see p. 802</i>	Birmingham	Bristol	Cambridge	Durham	Exeter	Hull	Leeds	Leicester	Liverpool	London (see also pp. 956-958)	Manchester	North Staffordshire
Accountancy/Accounting	✓	✓		✓		✓	✓		✓	✓	✓	
African Studies										✓		
Agriculture			✓	✓		✓	✓			✓		
Anatomy	✓	✓	✓	✓			✓		✓	✓	✓	
Anthropology			✓							✓	✓	
Archaeology	✓		✓	✓	✓		✓	✓	✓		✓	
Architecture			✓	✓					✓	✓	✓	
Art/History of Art	✓		✓	✓		✓	✓			✓	✓	
Astronomy			✓							✓		
Bacteriology	✓	✓	✓	✓			✓		✓			
Banking	✓								✓	✓		
Bio-chemistry	✓	✓	✓	✓			✓	✓	✓	✓	✓	
Brewing, Malting, etc	✓										✓	
Building									✓		✓	
Celtic			✓						✓			
Chemistry, Colour							✓				✓	
Chemistry, Technical												
Commerce	✓						✓		✓	✓	✓	
Criminology							✓			✓		
Dairying												
Dentistry	✓	✓		✓			✓		✓	✓	✓	
Domestic Science		✓								✓		
Drama		✓									✓	
Dutch			✓							✓		
Education												
Electronics	✓	✓	✓	✓			✓	✓	✓	✓	✓	
Engineering, Aeronautical		✓	✓							✓	✓	
Chemical	✓		✓	✓			✓			✓	✓	
Civil, Electr, Mech	✓	✓	✓	✓			✓	✓	✓	✓	✓	
Marine/Naval Archit				✓					✓			
Municipal										✓	✓	
Estate Management			✓							✓		
Forestry			✓									
Fuel Technology	✓			✓			✓			✓	✓	
Genetics	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
Geodesy			✓									

Note—All universities (except North Staffordshire and Sussex) award first degrees classics (Greek and Latin), economics, English, French, geography,

STUDY (see p 801)—TABLE OF FIRST DEGREE COURSES

Nottingham	Oxford	Reading	Sheffield	Southampton	Sussex (see p 806)	Wales	Aberdeen	Edinburgh	Glasgow	St. Andrews	Belfast	<i>For an explanation of the symbols used, see p 802</i>
✓			✓	✓		✓	✓	✓	✓	✓	✓	Accountancy/Accounting
												African Studies
✓	✓	✓				✓	✓	✓	✓		✓	Agriculture
	✓		✓			✓	✓	✓	✓	✓	✓	Anatomy
	✓					✓		✓	✓			Anthropology
	✓					✓		✓	✓		✓	Archaeology
		✓				✓		✓	✓			Architecture
		✓				✓		✓	✓		✓	Art/History of Art
	✓							✓	✓	✓	✓	Astronomy
	✓	✓	✓			✓	✓	✓	✓	✓	✓	Bacteriology
								✓				Banking
✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	Biochemistry
												Brewing, Malting, etc
						✓						Building
						✓	✓	✓			✓	Celtic
								✓	✓		✓	Chemistry, Colour
								✓	✓		✓	Chemistry, Technical
				✓				✓				Commerce
												Criminology
✓		✓				✓		✓			✓	Dairying
			✓					✓	✓	✓	✓	Dentistry
												Domestic Science
												Drama
												Dutch
			✓			✓	✓	✓	✓	✓	✓	Education
✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	Electronics
				✓					✓		✓	Engineering, Aeronautical
			✓			✓						Chemical
✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	Civil, Electr., Mech
									✓		✓	Marine/Naval Archit
												Municipal
												Estate Management
	✓					✓	✓	✓				Forestry
			✓			✓			✓			Fuel Technology
✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	Genetics
	✓											Geodesy

with honours, or special degrees, in the following subjects: botany, chemistry, geology, German, history, mathematics, philosophy, physics, zoology.

[continued on next page]

UNITED KINGDOM DIRECTORY TO SUBJECTS OF

<i>For an explanation of the symbols used, see p. 801</i>	Birmingham	Bristol	Cambridge	Durham	Exeter	Hull	Leeds	Leicester	Liverpool	London (see also pp. 936-958)	Manchester	North Staffordshire
Geophysics	✓		✓	✓								
Glass Technology												
History & Philosophy of Science		✓	✓			✓	✓	✓		✓		✓
Horticulture										✓		
Italian	✓	✓	✓			✓	✓		✓	✓	✓	
Latin-American Studies			✓	✓			✓		✓	✓		
Law	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	
Leather Industries							✓					
Marine Biol./Oceanography				✓					✓	✓		
Medicine & Surgery	✓	✓	✓	✓			✓		✓	✓	✓	
Metallurgy	✓		✓	✓			✓		✓	✓	✓	
Microbiology	✓	✓					✓			✓		
Military/War Studies										✓		
Mining/Mng. Engineering	✓			✓			✓			✓		
Music	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Nutrition										✓		
Oil Technology	✓									✓		
Oriental Studies			✓	✓			✓		✓	✓	✓	
Paper Technology											✓	
Pharmacy/Pharmacology							✓		✓	✓	✓	
Physical Education	✓											
Physiology	✓	✓	✓	✓			✓		✓	✓	✓	
Political Science	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Portuguese	✓		✓				✓		✓	✓	✓	
Poultry Husbandry												
Psychology	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Scandinavian Studies			✓	✓		✓	✓			✓	✓	
Slavonic & other East European Studies	✓		✓				✓		✓	✓	✓	
Sociology/Social Studies	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓
Spanish	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	
Statistics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Textiles							✓				✓	
Theology/Biblical Studies	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
Town & Country Planning*				✓					✓		✓	
Veterinary Studies		✓	✓						✓	✓		

*Durham = Land Use Studies.

Note—All universities (except North Staffordshire and Sussex) award chemistry, classics (Greek and Latin), economics, English, French,

STUDY (see p. 801)—TABLE OF FIRST DEGREE COURSES (contd)

Nottingham	Oxford	Reading	Sheffield	Southampton	Sussex (see p. 806)	Wales	Aberdeen	Edinburgh	Glasgow	St. Andrews	Belfast	For an explanation of the symbols used, see p. 801
	✓								✓			Geophysics
			✓									Glass Technology
	✓		✓	✓			✓				✓	History & Philosophy of Science
✓		✓										Horticulture
✓	✓	✓				✓	✓	✓	✓			Italian
	✓		✓			✓		✓	✓			Latin-American Studies
✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	Law
												Leather Industries
			✓	✓		✓						Maine Biol./Oceanography
	✓					✓	✓	✓	✓	✓	✓	Medicine & Surgery
✓	✓		✓			✓		✓	✓			Metallurgy
✓		✓				✓	✓		✓		✓	Microbiology
	✓											Military/War Studies
✓			✓			✓		✓	✓			Mining/Mng. Engineering
✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	Music
												Nutrition
	✓					✓	✓	✓	✓	✓		Oil Technology
												Oriental Studies
												Paper Technology
✓	✓					✓		✓	✓	✓	✓	Pharmacy/Pharmacology
												Physical Education
	✓		✓	✓		✓	✓	✓	✓	✓	✓	Physiology
✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	Political Science
	✓		✓			✓			✓			Portuguese
		✓										Poultry Husbandry
✓	✓	✓	✓				✓	✓	✓	✓	✓	Psychology
							✓	✓	✓			Scandinavian Studies
✓	✓							✓	✓			Slavonic & other East European Studies
✓			✓	✓		✓			✓			Sociology/Social Studies
✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	Spanish
✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	Statistics
											✓	Textiles
✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	Theology/Biblical Studies
												Town & Country Planning
								✓	✓		✓	Veterinary Studies

first degrees with honours, or special degrees, in the following subjects: botany, geography, geology, German, history, mathematics, philosophy, physics, zoology

FIRST DEGREES [contd from p. 802].

The symbol ✓ has not been used for subjects taken only in a course for a general degree or a general degree with honours

Each subject indicated in the column for the University of London may be studied at one or more schools of the university, see the special London Table on pp 956-958. A pamphlet entitled 'General Information for Internal Students', which gives details of the schools of the university and the particular subjects which can be studied at them, may be obtained from the Academic Registrar, University of London, Senate House, Malet St, London, W C 1

The University College of North Staffordshire has organized its degree courses differently from those of other universities in the United Kingdom and does not award honours degrees, or special degrees, in single subjects, students normally being required (following the 'foundation year' common to all students) to study two principal subjects for 3 years.

The University of Sussex also organizes its courses differently and does not award honours degrees, or special degrees, in single subjects in the arts faculty. The course provided at Sussex is an integrated multi-subject course and in 1961-62 the following subjects are being offered: economics, English, French, German, history, philosophy. Additional subjects, including sciences, will be offered from 1962-63. For fuller details, the university 'Prospectus' should be consulted.

The Table on pp 802-805 does not purport to be anything more than a signpost to direct the reader to the 'General Information' sections of the appropriate university entries, where further particulars as to title of degree, length of course, etc, will be found.

DIPLOMAS, CERTIFICATES, ETC. The following lists show which universities offer diplomas, certificates, testamurs, licences, etc, in the subjects named. In some cases the qualification is awarded by a constituent college of the university mentioned and not by the university itself.

The title of the qualification is given in each case. It should be noted that some of these qualifications are open to graduates only. Information as to whether particular qualifications are postgraduate or not and as to length of courses will be found in the 'General Information' section of the entry for each university or college.

For the convenience of the reader the qualifications have been grouped under general headings, which are not, however, necessarily identical with the names of the faculties under which the subjects fall in any particular university.

Agriculture & Forestry

Agricultural bacteriology Leeds, *agricultural botany* Leeds; *agricultural chemistry* Leeds, R'dg., *agricultural economics* Leeds, Manc, Oxon, R'dg, Glas; *agricultural science* Camb, *agricultural zoology* Leeds, *agriculture* Camb., Leeds, R'dg., Wales, *dairying* Wales, *dairy*

science Nott, *estate management* Camb., *farm management* Leeds; *forestry* Oxon, Wales, Edin., *horticulture* R'dg; *plant pathology* Leeds, *rural science* Edin

Arts

Anthropology Durh, Lond, Oxon, Wales, *anthropology, cultural* Oxon, *anthropology, physical* Camb & Oxon, *anthropology, social* Camb, Manc, Edin., *archaeology* Liv, Lond, *archaeology, Chinese* Lond, *archaeology, classical* Camb, Lond, Oxon, *archaeology, European* Lond, Oxon, *archaeology, Indian* Lond, *archaeology, Islamic* Lond, *archaeology of Western Asia* Lond, *archaeology, prehistoric* Camb, Lond; *archive administration* Lond, *art* Wales, *art, history of* Lond, Oxon.; *biblical history & literature* Sheff; *biblical knowledge* Manc, *biblical studies* Durh, Glas, *business studies* Sheff, *Christian theology* Camb, *commerce* Birm., *action & drama* Lond, *divinity* Birm, *divinity (further study in)* Hull, *drama* Lond, Glas, *economics* Camb., Oxon., *economics & political science* Oxon., *economic studies* Durh., *Egyptology* Lond., *fine art* Durh., Lond., Oxon, R'dg, Wales, *geography* Lond., Wales, Edin.; *geography, social* Glas, *handicraft* Wales; *historical studies* Camb, *history & philosophy of science* Camb, Leeds, Oxon., *history & archaeology, Greek* Glas; *history & archaeology, Roman* Glas; *history, Greek* Glas, *history, Islamic* Glas; *history, Roman* Glas, *Indian philosophy* Lond; *industrial administration* Manc; *institutional management* Lond; *international studies* Lond, *librarianship* Lond, *linguistics, general* Manc, Edin, *medieval & modern writing* Wales, *music* Oxon, Wales, *paleography & archives administration* Wales, *paleography & manuscript studies* Edin, *paleography, semitic* Wales, *philology, comparative* Lond, Oxon, Glas, *philology, romance* Glas, *philology, semitic* Glas, *phonetics* Lond, Edin, *psychology* Lond, Glas, *psychology, applied* Liv, *public administration* Birm, Durh, Exe., Hull, Leeds, Liv, S'ton, Edin, Glas; *religious knowledge* Lond, *study of records & administration of archives* Liv; *theology* Birm, Durh, Leeds, Lond, Manc, Oxon., Wales

LANGUAGES, ETC. *African languages* Lond, *Arabic* Durh, Leeds, Lond., *Bantu languages* Lond; *Bengali* Lond, *bilingual studies* Wales, *Burmese* Lond., *Celtic studies* Oxon., *Chinese* Lond; *Czechoslovak* Lond, *English for foreign students* Lond, *English language & literature for overseas students* Exe.; *English studies* Leeds, Edin, *English studies for overseas students* Nott., *foreign languages* Durh, *foreign languages, modern* Lond, *French* Wales, *French language* Exe, *German language* Exe, *Gujarati* Lond., *Hebrew* Leeds, Lond, *Hebrew paleography & epigraphy* Lond; *Hebrew, teaching of* Leeds, *Hindi* Lond., *Indian paleography & epigraphy* Lond, *Indo-Aryan languages, comparative grammar of* Lond, *Iranian* Lond, *Islamic studies* Edin.; *Japanese* Lond, *Malay* Lond, *Marathi*

Lond; *modern languages* Camb; *Oriental languages* Lond; *Persian* Lond; *Pohsh* Lond, *Russian* Leeds, Lond, *Scandinavian studies* Lond; *Sinhalese* Lond, *Slavonic studies* Camb, Oxon, *Spanish* Leeds, *Swedish* Hull, *Tamil* Lond, *Turkish* Lond, *Urdu* Lond, *West African languages* Lond., *Yugoslav* Lond

LAW Administrative law & practice Edin, *law* Lond, Oxon, *law, international* Camb, Liv, Manc, *law, Roman* Camb, *legal studies, comparative* Camb

Education

Art teacher's Lond, Manc, *audiology* Manc, *child service* Birn., *education* all univs (incl N Staffs), *educational* Manc, *educational psychology* Birn, Leic, Manc, *educational studies* Edin, *education (fine art)* Durh, *education for overseas students* Exe, *education for overseas teacher's* Durh., *education, health* Lond, *education of backward children* Leeds, *education of handicapped children* Durh, Lond, *education of young children* Durh, *education, physical* Leeds, *education, primary* Leeds, Nott, *education, religious* Leeds, Nott, *education, rural* R'dg, *education, secondary* Durh., Leeds, Nott, *English educational thought & practice* Lond, *psychology of childhood* Birn, *teacher's* Manc, *teachers of educationally subnormal children* Birn, *teachers of the blind* Birn, *teachers of the deaf* Manc, *teaching of English as a foreign language* Lond, *teaching of English overseas* Manc, *teaching of handicapped children* Liv., Manc

Medicine (incl Dentistry and Veterinary Medicine)

Applied parasitology & entomology Lond; *clinical psychology* Edin, *dental surgery (LDS)* Brist, Leeds, Manc, Sheff, *dentistry, public* St And, *medical illustration* Edin, *medical services administration* Edin, *mental health* Lond, *nurse teacher's* Leeds, *nurse-tutor's* Edin, *nursing* Leeds, Lond, *nursing, community* Manc, *nursing studies* Edin, *pathology, clinical* Lond, *psychiatry* Edin, *psychological medicine* Durh, Leeds, Lond, Manc, *public health* Brist, Durh, Leeds, Liv, Lond, Manc, Sheff, Wales, Aberd, Edin, Glas, St And, Belf, *radiodiagnosis* Liv, Edin, *radiotherapy* Liv, Edin, *sister-tutor's* Lond; *tropical medicine & hygiene* Liv, Lond, Edin; *tropical veterinary medicine* Edin, *tuberculous diseases* Wales, *veterinary hygiene* Liv, *veterinary state medicine* Edin

Science

Bacteriology Lond, Manc, *bacteriology & microbiology* Brist; *biology* Edin.; *chemical microbiology* Camb, *chemistry* Camb.; *dietics* Lond, *genetics*, animal Edin, *mathematical physics* Birn, Wales, *mathematical statistics* Birn., Camb,

mathematical statistics & computational analysis Wales, *mathematics, actuarial* Edin, *microbiology* Sheff, *micropaleontology* Wales, *native history* Lond, *numerical analysis* Lond, *numerical analysis & automatic computing* Camb, Durh, *physics* Camb, *plant biochemistry* Camb, *statistics* Manc, Oxon, Aberd

Social Studies

Criminology Camb, *medical social work* Edin, *personnel management* Lond, Manc, Wales, *political, economic & social studies* Nott.; *psychiatric social work* Edin, *psychiatric social workers'* Manc, *public & social administration* Oxon, *social administration* Exe, Liv, Manc, St And, *social science* Liv, Wales; *social science & administration* Lond; *social studies* Brist, Durh, Hull, Leeds, Leic., Lond, N Staffs, Sheff, S'ton, Belf, *social studies, applied* Brist, Leic, Lond, *social studies in tropical territories* Lond, *social study* Birn, Edin, Glas, *social work* Birn, *social workers in mental health* Lond, *sociology* Glas, *sociology, industrial* Liv, *theological & social studies* Nott, *youth leadership & organization* Wales, *youth work* Manc

Technology & Applied Science

Architecture Camb, Durh, Lond, Manc, Sheff, Wales, Edin, *building science* Liv, *ceramics* Leeds, *chemistry, colour* Leeds, *chemistry, technical* Edin, *civic design* Liv, *concrete technology* Leeds, *decoration* Lond, *dyeing* Leeds, *dynamics, applied* Edin, *electrical machines* Birn, *electronics* Durh, S'ton, *electronics, applied* Durh, *electronics & radio* Edin, *engineering* Camb, Liv, Lond, Wales, Glas, *engineering, chemical* Birn, Camb, Leeds, Lond, Manc, *engineering, civil* Birn, *engineering, control* Camb, *engineering, electrical (information engineering)* Birn, *engineering, electrical power* Durh, *engineering, foundation* Birn, *engineering, gas* Leeds, *engineering, highway* Birn, *engineering, highway & traffic* Durh, *engineering, mechanical (thermodynamics & related studies)* Birn, Glas; *engineering, mining* Leeds, *engineering, production* Durh, Manc, *engineering production & management principles* Birn; *engineering, public health* Durh, *fuel science* Leeds, *fuel technology* Durh., Nott, *fuel technology & chemical engineering* Sheff, *geophysical surveying* Edin., *glass technology* Sheff, *landscape architecture* R'dg, *landscape design* Durh, Lond, *leather manufacture* Leeds; *malting & brewing* Birn, *mechanics, applied* Sheff, *metallurgy* Camb, Leeds, Lond, Wales; *metallurgy, industrial* Birn; *metallurgy (iron & steel)* Sheff, *metallurgy, physical* Sheff, *mineral dressing & coal preparation* Leeds, *mining* Birn, Lond, Sheff, *mining, metalliferous* Wales, *paper technology* Manc, *photogrammetry* Lond, *physics, technical* R'dg, *preservation & restoration of historical buildings*

Lond., *structural design* Durh.; *surveying of structures & strength of materials* Camb.; *town*
 Lond.; *technology* Manc; *textile chemistry & country planning* Manc; *town planning* Durh,
 Manc., *textile industries* Leeds, Manc., *theory* Lond.

STATISTICS For statistical information *see* above, especially the sections on 'Finance' and 'Students'. For particulars of overseas students

enrolled at universities in the United Kingdom, *see* Appendix IV

POSTGRADUATE AWARDS The Association of Universities of the British Commonwealth publishes every two years a 130-page booklet entitled *United Kingdom Postgraduate Awards (Fellowships, Scholarships, Grants, etc)* which contains lists of 'open' awards tenable at U.K. universities and of

the more important 'open' awards tenable outside the United Kingdom by U.K. graduates. The 1960-62 edition can be consulted in university and other principal libraries. The 1962-64 edition will be published in October 1962, price 5s

ENGLAND AND WALES

[Information compiled as at 21/8/61]

UNIVERSITY OF BIRMINGHAM*

Founded 1900, previously established as Mason Science College 1880,
and incorporated as Mason University College 1898

Postal Address: Birmingham 15, England

Telephone: Selly Oak 1301

VISITOR—H M THE QUEEN

CHANCELLOR—The Rt Hon THE EARL OF AVON, KG, MC, Hon DCL Oxon & Dnh., Hon LLD Belf, Calif., Camb., Col., Denver, Leeds, McG, Sheff, Tor & Burn

PRO-CHANCELLOR—S. F BURMAN, CBE, MA

DEPUTY PRO-CHANCELLOR—SIR WILFRID MARTINEAU, MC, TD, MA Camb

TREASURER—W H. NEWTON, MA, FCA

VICE-CHANCELLOR AND PRINCIPAL—SIR ROBERT AITKEN, MD NZ, DPhil Oxon., Hon LLD Dal, Melb, Pany, McG, Penn & Aberd, Hon DSc Syd, Hon DCL Oxon, FRCP, FRCPed, FRACP

VICE-PRINCIPAL—Professor K. MATHER, CBE, DSc Lond, MSc, FRs

REGISTRAR—G TEMPLEMAN, MA Lond, PhD, FSA

SECRETARY—G. L. BARNES, MA, FCA

BURSAR—C P THOMPSON, CMG, OBE, BSc

LIBRARIAN—K W HUMPHREYS, BLitt MA Oxon

SENIOR WOMAN TUTOR—NANCY A. MACFARLANE, MA Oxon

TEACHING STAFF

[†=Part-Time]

Accounting and Administration

Cousins, D., BCom, FCA

Turner, E. C., MCom, FCA

Prof.

†Lectr

Thomas, G H, DIC, BSc PhD Lond

(Endocrine Chem) Sr. Lectr

Mandl, Anita M, BSc Lond, PhD DSc

(Endocrinol) St. Lectr

Knowles, Sir Francis, Bt, DPhil Oxon.

(Endocrinol) Sr Lectr

Darlington, D, MB ChB

Lectr.

Lisowski, F P

Lectr

Dallas Ross, W P, MA MB BChir Camb.

Lectr, Tutor

Glass, A, BSc MB ChB

Lectr

Rogers, A W, BSc MB BS Lond

Lectr.

Astley, R, MB ChB

(Radiol A) †Lectr

Hutton, J F K., MB ChB Glas

(Radiol A) †Lectr

Anatomy

Zuckerman, Su Solly, CB, MA Oxon & Cape T,

DSc Lond., MD, FRs

Krohn, P L, BA BM BCh Oxon

Nuffield Gerontological Res Fellow,

Hon Prof

Eayrs, J T, PhD DSc

(Neuro-Endocrinol.) Prof

Thomson, A P D., MBE, BSc MB

ChB Glas.

Sr. Lectr., Actg Dir of Dept.

Eckstein, P., MA MD Camb

Sr Lectr.

Green, S. H., MB ChB

Sr. Lectr.

Holmes, R L., MB ChB PhD Leeds

Sr. Lectr.

Ashton, E. H., PhD DSc

Sr Lectr.

Bentley, G., MB ChB Sheff

Temp Lectr

Hickman, J A., BSc MB ChB

Temp Lectr.

Kestle, M J., MB ChB

Temp Lectr

Rigby, C. C., MB ChB Sheff.

Temp Lectr

* Member of the Association of Universities of the British Commonwealth

Smallwood, C, MB ChB	Temp Lectr	Bevington, J C, MA PhD <i>Camb</i> , DSc	
Smethurst, J R, MB ChB	Temp Lectr		Sr Lectr
Woodward, D A K, MB ChB	Temp Lectr	Randles, J E B, MA <i>Camb</i> , BSc <i>Lond</i> , DSc	Sr Lectr
5 Res Fellows		Sheridan, J, MA DPhil <i>Oxon</i> , DSc	Sr Lectr

Ancient History and Archaeology

Tritsch, F J, PhD <i>Heidel</i> , MA	Reader	Batty, W R H, BSc <i>Liv</i>	Lectr, Tutor
Gelling, P S, MA <i>Camb</i> , FSA		Allen, P E M., BSc PhD	Lectr
Tomlinson, R A, MA <i>Camb</i>	Lectr	Barker, S A, PhD DSc	Lectr
1 Res Fellow		Forbes, E J, BA BSc DPhil <i>Oxon</i>	Lectr

Art (Fine Arts)

Waterhouse, E K, CBE, MA <i>Oxon</i> , AM <i>Prim</i> , FBA		Gowenlock, B G, MSc PhD <i>Mane</i>	Lectr
Barber Prof, Dir, Barber Inst of Fine Arts		Patrick, C R, BSc PhD	Lectr
Garlick, K J, MA <i>Oxon</i> , PhD	Lectr	Peaker, F W, BSc PhD <i>Leeds</i>	Lectr
James, R E W, MA <i>Camb</i>	Lectr	Small, R W H, BSc <i>Lond</i> , PhD	Lectr
Downes, J K, BA PhD <i>Lond</i>	Asst Librarian	Stephens, R, BSc PhD	Lectr
1 Res Fellow		Thomas, L F, BSc PhD	Lectr

Biochemistry, see also Physiol

Perry, S W, BSc <i>Liv</i> , PhD <i>Camb</i>	Prof, Hd of Dept	Peacock, R D, BSc PhD <i>Durb</i> , DSc	Lectr
Norris, F W, PhD <i>Lond</i> , DSc, FRIC	(Plant B) Reader	Stephen, W. I., BSc <i>Aberd</i> , PhD	Lectr
Challinor, S. W, DSc <i>Edin</i> , PhD, FRIC		Morgan, K J., MA BSc DPhil <i>Oxon</i>	Lectr
	Sr Lectr.	Lehile, R S, BSc PhD	Lectr
Rainbow, C, BSc PhD, FRIC	Sr Lectr	Hobson, J D, BSc PhD <i>Sheff</i>	Lectr
Kulka, Dora, PhD <i>Vienne</i>	Lectr	Mayer, J R, MSc PhD <i>Lond</i>	Lectr
Kelwick, R. G O, BSc PhD <i>Lond</i>	Lectr	Rogers, N A J, MA DPhil <i>Oxon</i>	Lectr
Greenshields, R. N, BSc PhD	Lectr	Brown, J K, BA PhD <i>Camb</i>	Lectr
Teale, F W. J, BSc <i>Lond</i> , PhD	Lectr	Simons, J P, BA PhD <i>Camb</i>	Lectr
Walker, D G, MSc PhD <i>Lond</i>	Lectr	Wells, C F, BSc PhD <i>Leeds</i>	Lectr

Sub-Dept of Malting & Brewing

	Adrian Brown Prof		
Rainbow, C, BSc PhD, FRIC	Sr Lectr.-in-Charge		

Botany

Heslop-Harrison, J, PhD <i>Belf</i> , DSc <i>Durb</i> , FLS	Mason Prof.		
Hawkes, J G., MA PhD ScD <i>Camb</i>	(Taxonomic B) Prof		
Poel, L W, BSc <i>Liv</i> , PhD <i>Glas</i>	Sr Lectr		
Harrold, C E., BSc <i>Lond</i> , PhD <i>Camb</i>	Lectr		
Greene, S W, BA <i>Dub</i>	Lectr		
Idle, D B, BSc PhD <i>Lond</i>	Lectr		
Davies, M E, BSc PhD	Lectr		
Wilkins, D A, BSc PhD <i>Lond</i>	Lectr		
Keyworth, W G, BSc PhD <i>Lond</i>	Recog. Lectr		
2 Res Fellows			

Brewing, etc., see Biochem.**Chemistry**

Stacey, M, PhD DSc, FRS	Mason Prof, Hd of Dept		
Robb, J C, PhD <i>Aberd</i> , DSc (Phys. C.) Prof			
Tatlow, J C, PhD DSc (Org. C) Prof			
Belcher, R, PhD DSc (Analyt. C) Prof			
Pinkard, F W, MSc <i>Wales</i>	Sr Lectr., Tutor		
Gilbert, G. A., MA PhD <i>Camb</i>	(Bio-Phys. C) Sr Lectr.		

Classics, see Greek, Latin**Commerce, see also Acctg, Econ Hist, Econ**

Walker, G, MA <i>Oxon</i> , DLitt	Prof.
Picton, J G, MCom (Indust Econ) Sr	Lectr.
Ross, N S, PhD <i>Durb</i> , MA	(Employer-Employee Relns) Sr Lectr

Commercial Law

Gostein, H, LL.D <i>Lond</i> , MCom	Prof
-------------------------------------	------

Dentistry

MacGregor, A B, MA MD BChir <i>Camb</i> , FDSRCS	(D. Surg) John Humphreys Prof, Dir of Dental Studies
Osborne, J, PhD <i>Sheff</i> , MDS, FDSRCS	(D. Prosth) Prof; Tutor, Dep Dir of Dental Studies
Tavener, R W H., BDS	(D. Pathol) Prof
Whitehead, F I. H., FDSRCS	(Oper D Surg) Sr Lectr
Shovelton, D. S., BSc BDS, FDSRCS	(Oper D Surg) Sr Lectr

Marsland, E A, PhD BDS
(D. Pathol) Sr Lectr, Actg Hd of
Dept

Fox, E C, MD *Vienna*
(Oper D Surg) Sr Lectr
Sr Lectr

Grundy, J R, BDS
Ashton, E H, BSc PhD DSc
(Anat for D Students) Sr Lectr

Shaw, J G, FDSRCS (Oper D Surg) Lectr
Day, A J W, BDS, FDSRCS (Orthod) Lectr
Foster, T D, MDS, FDSRCS

(Orthod) Lectr
Brown, R M, BSc BDS PhD Lectr
Fisher, F J, BDS Lectr

Wheatcroft, J F, LDS (Oper D Surg) †Lectr
Newman, P. A, LDS (Oper D Surg) †Lectr
Calverley, B C, MB ChB, FDSRCS

(Oper D Surg) †Lectr
Wigley, F E, LDS (Oper D Surg) †Lectr
Lane, E, BDS (Oper D Surg) †Lectr

Jennens, P. E, LDS (Oper D Surg) †Lectr
Shreeve, N G, BDS (Oper D Surg) †Lectr
Halford, R S, BDS (Oper D Surg) †Lectr

Van Roey, O R C, BDS
(Oper D Surg) †Lectr
Gray, T C, BDS *Mane* (D Prosth) Lectr

Tomlin, H R, BDS (D Prosth) Lectr
Corbett, M Elisabeth, BDS (D Histol) Lectr
Davison, P H, BSc MD, FRCP

(Med for D Students) | Lectr
Gourcivitch, A., MC, MB ChB, FRCS
(Gen Surg for D Students) †Lectr

Nutt, Marjorie E, BSc PhD *Lond*
(Physiol) Lectr
James, Sybil P, BSc PhD DSc (Physiol) Lectr

James, W W, OBE, MCh, FRCS, FDSRCS
Hon Res Fellow, Hon Member of
Staff

2 Res Fellows
Clinical Lecturers at Dental Hospital
Day, A J W, BDS, FDSRCS

Meacock, S P, LDS
Stammers, A F, MDS
Clendinnen, A G., LDS

Knight, J. S., BDS PhD
Heighway, H E, BDS
Mitchell, R. G., MB ChB *Mane.*, FDSRCS

Univ Clinical Lecturers in D Surg at
Teaching Hospital
Walker, R O, FDSRCS

Pusey, R F, BDS *Lond*
Hoggins, C S, BDS, FDSRCS
Clinical Demonstrators in D Surg

Bate, W J, LDS
Draycott, R J, LDS *Law*.
Tinkler, S, LDS

Cond, J R, BDS
Murphy, W, LDS
Robinson, R C, LDS

Clinical Tutors in D Surg
Browne, A. L., LDS
Brown, Emily L., MB ChB *Glaz*

Hall, Sheila M, LDS

Jackson, B H, LDS

Kitchen, J, LDS

Norris, N, BDS

Quinet, Douis, MB ChB

Wright, T. J., BDS

Assistant Clinical Tutor in D Surg

Menezes, D M, LDS *Bom*

**Econometrics and Social Statistics, see
also Maths**

Gorman, W M, BA *Dub* Prof
Walters, A A, BSc(Econ) *Lond* Sr Lectr

Wise, J, BSc(Econ) PhD *Lond* Sr Lectr

Morris, R N, MSocSc Lectr.

Economic History, see also Hist

Court, W H B, MA *Camb. & Harv*, MCom Prof

Wightman, D R, BSc(Econ) *Lond*, PhD Sr Lectr

Eversley, D E. C., BSc(Econ) *Lond*, PhD Sr Lectr.

Burley, K H, BA PhD *Lond* Lectr.

Economics, see also Comm, Econ Hist.

Hutchison, T W, MA *Camb* Mitsui Prof

Harbury, C. D., BCom *Lond*, PhD *Wales* Lectr

Bennathan, E, MCom (Internat. E) Lectr.

McManus, M, BCom PhD Lectr.

Rimmer, D, BA *Sheff* Lectr

**Economics and Institutions of the
U.S.S.R.**

Baykov, A, JuiD *Prague*, PhD
(Russian Econ Studies) Prof.

Barker, G. R., MA *Camb*, MCom

(Russian Econ Studies) Lectr

Koutaissoff, Elisabeth, L&Ss *Lausanne*,
BLitt *Oxon.* (Russian Lang.) Lectr.

Davies, R W, BA *Lond*, PhD Lectr.

1 Res Fellow

Education, see also Inst of Educn, below

Jeffreys, M V C, CBE, MA *Oxon & Birm*
Prof, Dir of Univ Inst. of Educn.

Peel, E A, BSc *Leeds*, MA PhD DLat *Lond*

Prof, Hd of Dept & of Dept of Child
Study

Sparrow, W J, BSc MA PhD
Sr Lectr, Dep to Hd of Dept for
Postgrad Trg

Pringle, Mrs Mia L K, BA PhD *Lond*
Sr Lectr, Dep Hd of Dept of Child
Study

Flood, W E, MA *Camb*, PhD Sr Lectr

Burroughs, G E R, BSc *Lond*, PhD Sr Lectr

Cheetham, Grace, BSc *Wales* Lectr

Curr, W, MA EdB *Glaz* Lectr.

Ewing, Nancy R, MA *Edin* Lectr.

Goodborn, Mrs E Joyce (Art & Crafts) †Lectr

Gulliford, R, BA *Lond* Lectr

Hallworth, H J, MA *Lond.*
 Hobling, Margaret B, MA *Oxon*
 Honeybone, H C, BA *Lond*
 James B C L, MA *Oxon*
 Jull, Mrs Estelle N, BA *Oxon*,

Med *Durh*

Law, Elizabeth, BA *Manc*
 Maddox, H, BA PhD *Lond.*
 Oliver, J N, BSc *Sheff*
 Payne, Ethel R, MSc *Wales*
 Phillips, C. J., BA *Lond*
 Roberts, Christine D
 Storer, W O, MA *Camb*
 Thorburn, A, MA *Edm*
 Tubbs, A E, BSc(Econ) *Lond*
 Williams, Myfanwy, DipPsych *Lond*
 Wills, Mrs Vera W., DipSocStud *Lond*
 Wilkinson, A. M., BA *Lond*, PhD *Manc*
 Beard, Ruth M, MSc MA PhD *Lond.*
 Brocklehurst, J B, BA *Nott*, MA
 DMus *Sheff*
 Fishman, M (Play Production) † Lectr
 Dalton, R H F, BA *Lond*
 Morris, S, BA *Lond*
 Szreter, R, BSc(Econ) BA *Lond*
 Emmett, R G, BSc MA *Lond*
 Lamb, Phyllis J, BSc *Manc.* Temp Lectr

Electron Physics

Sayers, J, MSc *Belf & Birm*, PhD *Camb.* Prof
 Airey, G F, MA DPhil *Oxon* Lectr
 2 Res Fellows

Engineering, Chemical

Davies, J T., MA *Camb*, MSc N.Z.,
 DSc *Lond* Prof, Dir of Dept.
 Ellis, S R M., MSc N.Z., PhD, FRIC Prof.
 Crooks, W M., BSc *Lond*, PhD Sr. Lectr.
 Gilmour, H, BSc *Glas*, FIP Sr Lectr
 Blakebrough, N, MScTech PhD *Manc*
 Long, R, BSc PhD *Leeds* Sr Lectr
 Nutt, C W., BSc PhD *Brist* Sr Lectr
 Brianson, S H, BSc PhD *Brist* Lectr
 Husband, W H., BSc *Manc*, PhD Lectr
 Charles, E J, BSc PhD Lectr.
 Porter, C R, BSc PhD *Lond* Lectr.
 Botterill, J S M, BSc PhD Lectr
 Carter, J W, BSc *Lond* Lectr
 Barker, P E, BSc PhD Lectr
 Miskin, L G, BSc Lectr.
 Porter, K. E., BSc *Lond* Lectr.
 Mohtadi, F, PhD Lectr
 Jeffreys, G V., MSc, FRIC Lectr.
 Oliver, D R., BSc PhD Lectr
 Bott, T R, BSc Lectr
 Cardew, M. H., BSc PhD *Brist* Lectr
 King, M B, MA *Camb*, PhD *Lond* Lectr
 Pittaway, G S, BSc Lectr
 Wall, C G, BSc PhD Lectr.
 Jensen, V G, BSc PhD Lectr
 Garner, F H, OBE, PhD *Pitt.*, MSc, FRIC Sr. Fellow

Engineering, Civil

Redshaw, S C., DSc *Wales*, PhD *Lond*,
 FRAcS Beale Prof
 Kolbuszewski, J., DIC, PhD *Lond*, FGS
 (Highway & Traffic E) Prof
 Essery, I T S, MC, MSc Sr Lectr
 Hobbs, F D., DIC
 (Highway E) Paviors Sr Lectr.
 Chaplin, T K, MA *Camb*, PhD Lectr
 Wills, R F, DIC, BSc Lectr
 Brock, G, BSc PhD Lectr
 Richardson, B. D, BSc Lectr
 Thomas, I E, DIC, BSc *Wales*, MS
 PhD *Northwestern* Lectr
 Vaisey, Gillian, BSc *Lond*, MA *Camb.* Lectr
 Hu, G C-Y, MSc PhD
 (Highway & Traffic E) Lectr
 Fortey, J W, BSc *Lond*, MS *Rice* Lectr
 Hamlin, M J, DIC, BSc *Brist* Lectr
 Miller, A J, MSc PhD *Manc* Lectr.
 Lees, G., BSc *Manc*, FGS
 (Road Materials) Lectr.
 Jones, R H, BSc PhD Asst Lectr
 Borg, N, MICE Hon Lectr
 Gmsburg, L Hon Lectr
 Sharp, D R, MBE, DipTP *Lond.*, BSc, MICE Hon Lectr

12 External Lectrs

Engineering, Electrical

Tucker, D G, DSc *Lond* Prof
 Allanson, J T, MSc *Manc* Prof
 Bell, D A, MA BSc *Oxon*, PhD
 (Electromag) Reader
 Welsby, V G, BSc PhD *Lond* Sr Lectr
 Griffiths, J W R, BSc *Brist*, PhD Sr Lectr
 Henderson, J. G, BSc *Durh* Sr Lectr
 Jarvis, A P., MSc Lectr
 Hudson, J., MEng *Lsw* (Mining) Lectr.
 Layton, J M, BSc *Lond*, BA *Oxon* Lectr
 Cluley, J C, MSc Lectr
 Wright, G T, PhD DSc Lectr
 Kay, L, BSc *Durh* Lectr
 Howson, D P, BSc *Brist*, MSc Lectr
 Smith, I R, BSc PhD *Brist* Lectr
 Maclean, T S M, BSc *Glas*, PhD *Edin* Lectr
 Cooper, D C, MSc Lectr.
 3 Res Fellows *

Engineering, Mechanical

Tobias, S A, MA *Camb*, PhD DSc *Edm*
 Chance Prof, Hd. of Dept
 Bannister, F K, BSc *Lond & Leeds*, PhD
 (Thermodynamics) Prof
 Cole, B N, BSc *Lond*, PhD Reader
 Raily, J W, MSc *Lond*, PhD Sr. Lectr
 Lanning, W A., BSc *Glas* Lectr
 Mills, B, BSc PhD Lectr
 Wright, E H, BSc PhD Lectr
 Hayes, S V, BSc Lectr.
 Allen, P D, MA *Camb* Lectr, Dep. for Admin
 Maltback, J. C., MSc *Copenhagen* Lectr
 Amini, E, BSc Lectr
 Trengrouse, G H., BSc Lectr

Foster, K, BA *Camb*
 Bakhtai, F, MSc PhD
 Scott, B F, BSc
 Blader, F B, BSc
 2 Res Fellows

Lectr
 Lectr
 Asst. Lectr
 Asst Lectr

Jimack, P D., BA *Lond*, PhD *S'lon*. Lectr
 Watson, G D., BA *Adel*, DU *Paris* Asst Lectr
 Hallmark, R E, BA *Sheff* Asst Lectr
 Argelliez, Simone (Colloquial F) Asst
 Best, Mme M (Colloquial F) Asst
 Garcmi, Mlle R (Colloquial F) Asst
 Milon, Michèle (Colloquial F) Asst

Engineering Production

Dudley, N A, BSc *Lond.*, PhD
 Lucas Prof, Hd of Dept & Dir. of Inst.
 Ainslie, W. G., BSc *Lond*, MA Sr Lectr
 Benson, F, BA *Lond*, PhD Lectr.
 Grisbrook, H, BSc Lectr.
 Haley, K B, BSc Lectr
 Colett, E N, BSc *Lond*, MEng *Sheff*, Lectr
 PhD
 Goodeve, Su Charles, OBE, DSc *Sheff*, Lectr
 FRS (Operational Res) Hon Lectr
 Rivett, B H P, MSc *Lond*
 (Operational Res) Hon Lectr
 Vadja, S, DrPhil *Vienna*
 (Operational Res.) Hon Lectr

3 Res Fellows

Institute for Engineering Production
 Edmondson, F, BSc Asst Dir
 Sury, R J, BSc Staff Tutor
 3 Res Fellows

English

Spencer, T J B, BA PhD *Lond* Prof., Hd. of Dept
 Hoggart, H R., MA *Leeds* Prof
 Shapiro, I A, MA Sr Lectr
 Duncan-Jones, Mrs Elsie, MA *Camb* Lectr
 Smith, H A, BA PhD Lectr
 Macfailane, Nancy A, MA *Oxon* Lectr
 Brewer, D S, MA *Oxon*, PhD Lectr.
 Rees, Miss Joan, MA *Lond.*, BA Lectr.
 Brown, J R., MA BLitt *Oxon*, PhD Lectr.
 Shepherd, G T, MA *Lond* (Engl. Lang) Lectr.
 Stanley, E G, MA *Oxon*, PhD (Engl Lang.) Lectr.
 Lodge, D J, MA *Lond* Asst Lectr.
 Herbert, A J, MA *Lond* (Foreign Students) Tutor
 1 Res Fellow
 Fellows of Shakespeare Institute
 Harris, B A, MA Lectr
 Sanders, N J, BA PhD
 Mulryne, J R, BA *Camb*

Fine Arts, see Art

French

Mackenzie, F, MA N.Z. & *Birm*, DèS *L Paris*, Prof
 Hon DUMontpellier
 Milner, J M, MA *Leeds* Sr Lectr
 Tillett, Margaret G., MA *R'dg*, LèS *L Paris* Lectr
 Hathaway, E. J, BA Lectr.
 Hilton, Mrs Margaret, BA *Oxon*. Lectr
 Williamson, J. C., BA *Nott* Lectr.
 Callander, Margaret M, MA *Manc* Lectr.
 Nicholas, B. L., MA BLitt *Oxon* Lectr.

Genetics

Mather, K, CBE, DSc *Lond*, MSc, FRS Prof
 John, B, MSc PhD *Wales* (Cytol) Lectr
 Lawrence, M J., BSc PhD *Wales* Lectr
 Jones, D A, MA *Camb* Asst Lectr
 Phulp, J, BSc *Glas*, PhD *Lond*
 (Plant Breeding) Recog Lectr
 Jinks, J L, BSc PhD Hon Lectr

Geography

Linton, D L, DSc *Lond* Prof
 Thoipe, H., MA MLitt *Durb*, PhD
 (Historical G.) Reader
 Warwick, G T, MBE, BSc *Brist*, PhD
 Johnson, B L C, PhD *Lond.*, MA Sr Lectr.
 Stedman, M. B., MA *Camb* Lectr.
 Jones, I E, BA *Wales* Lectr.
 Stringer, E T, BSc PhD Lectr.
 Donkin, R A, BA PhD *Durb* Lectr
 Moigan, W B, MA *Oxon*, PhD *Glas*. Lectr

Geology with Geophysics

Shotton, F. W, MBE, MA ScD *Camb*, FRS, FGS Prof
 Griffiths, D H, MSc *Manc.*, PhD, FGS
 Lacy, E D, BSc *Lond*, FGS Sr Lectr
 Hardie, W G, BSc *Lond*, FGS Lectr
 Garrett, P A, BSc, FGS Lectr.
 Strachan, I, BSc *Edin*, PhD *Camb*, FGS Lectr.
 King, R F, MA PhD *Camb.*, BSc *Lond* Lectr
 Moseley, F, MA *Camb*, BSc PhD *Sheff*, FGS Lectr
 Coope, G. R., MSc *Manc*, FGS Lectr
 Blundell, D J, PhD *Lond* & *Birm*, BSc Lectr.
 Bennison, G M, MSc *Durb*, PhD *Aberd.*, FGS Lectr
 2 Res Fellows

German

Pascal, R., MA *Camb.* & *Birm*, LittD *Camb*. Prof
 Thomas, R H, MA *Camb*, PhD Sr Lectr
 Prawer, S S, MA *Camb*, PhD Sr Lectr
 Horne, J, PhD *Vienna* Lectr
 Cunningham, Amy F, MA *Lw* Lectr
 Wiener, P B, MA Lectr.
 Sielfert, L., BA *Syd* Asst Lectr
 Lockwood, W. B., BA *Manc.*, MA *Brist*
 Asst Lectr.
 Vollmer, O A Lektor

Government, see Pol Sci

- Greek**
 Thomson, G, MA *Camb. & Birm* Prof
 Willetts, R F, MA Sr Lectr
 Hooker, G T W, MC, MA *Lond* Lectr
 Whittle, E W, MA *Camb. & Birm.* Lectr.
 Papayannopoulou, Katerina, Dip *Athens* (Mod G) Asst
- History, see also Econ Hist**
 Hawgood, J A, MA *DLat Lond*, PhD *Hudel*, MCom (Mod H) Prof.
 Cronne, H A, MA *Oxon. & Birm* (Mediæv H) Prof
 Styles, P, MA *Oxon* (Engl H) Reader
 Hilton, R H, DPhil *Oxon.* (Mediæv. H) Reader
 Ransome, Mary, MA *Camb* (Mod H) Sr Lectr
 Archer, Margaret, MA *Liv*, BLitt *Oxon* Lectr.
 Hardy, S M, MA *Camb.*, PhD *Lond* Lectr.
 Johnson, D. W J, BLitt *Oxon.* Lectr
 Sawyer, P H, MA *Oxon* Lectr
 Knecht, R J, MA *Lond* Lectr.
 Burley, K H, BA PhD *Lond* (Econ H) Lectr
 Humphreys, K W, BLitt MA *Oxon* (Paleog) Hon Lectr
 1 Res Fellow
- Italian**
 Whitfield, J H, MA *Oxon & Birm* Serena Prof
 Rees, D G, MA *Oxon* Lectr
 Carsaniga, G, Dott *Pisa* Lectr
 Giannitspasi, Angela, Dott *Rome* (Colloquial I) Asst
- Jurisprudence, see Law**
- Latin**
 Dudley, D. R., MA *Camb*, FSA Prof
 Dorey, T A, MA *Oxon*, PhD Sr. Lectr.
 Hooker, G. T. W., MC, MA *Lond* Lectr
 Hooker, Edna M., MA *Lond* Lectr
 Costa, C. D N, BA BPhil *Oxon* Lectr
 1 Res Fellow
- Law**
 Hood Phillips, O, MA BCL *Oxon.*, MA LLB *Dub.*, LL.M
 (Jurisp.) Barber Prof, Dir. of Legal Studies
 Unger, J., LL.M *Lond.* Barber Prof
 Grove, G A, LL.M
 (Conveyancing & Equity) Prof.
 Forbes, His Honour A. H.
 (Legal Ethics) Hon Lectr
 Brown, L N., MA LLB *Camb*, DrenDroit *Lyons* (Comp. L) Sr Lectr., Asst Dir of Legal Studies
 Garner, J F, LL.M Sr Lectr
 Hudson, A H, MA LLB *Camb.* (Common L) Lectr
 Furnston, M. P., MA BCL *Oxon* (Engl L) Lectr.
 Andrews, J A, BCL MA *Oxon* (Engl L) Lectr
 Higgins, M. J., LLB *Camb & Birm* (Engl L) Lectr.
- Bate, S. H, LLB Lectr.
 Adams, D S., BCL *Oxon*, LLB Lectr
 Homer, J A, BA LLB Lectr
- Linguistics**
 Ross, A S C, MA *Oxon & Birm.* Prof
 Hogben, L M, MA *Camb.*, DSc *Lond*, MSc, FRS Hon Sr Fellow
 1 Res Fellow
- Malting and Brewing, see Biochem**
- Mathematical Physics**
 Peierls, R E, CBE, MA *Camb*, DPhil *Leip.*, DSc *Manc. & Liv*, MSc, FRS Prof
 Mandelstam, S, BA *Camb.*, BSc *Rand*, PhD
 Valatin, J. G, DIng *Bud*, DSc *Paris* Reader
 Chester, G V, BSc *Edin.*, PhD *Lond.* Sr Lectr.
 Field, G, BSc PhD *Lond* Lectr.
 Woodward, J B, BSc PhD Lectr.
 Castillejo, L, BSc *Lond*, BA *Camb* Lectr
 Burkhardt, G H., BA *Oxon*, PhD Lectr.
 Emery, V J., BSc *Hull*, PhD *Manc.* Lectr
 Redish, K A, BSc *Lond* (Computing) Lectr
 4 Res Fellows
- Mathematics, Pure**
 Hilton, P J, MA DPhil *Oxon*, PhD *Camb.* Mason Prof
 Daniels, H E, MA *Camb & Edin.*, PhD (Stats) Prof
 Kuttner, B, MA PhD *Camb* (Analysis) Reader
 Wardle, K L, MA *Camb* Sr Lectr
 Calderwood, Nora I, MA BSc PhD *Edin* Lectr
 Shephard, G C, BA PhD *Camb* Lectr
 Taylor, S J., PhD *Camb* Lectr
 Wishart, D M G, BSc *St And*, MA PhD *Prin* (Stats) Lectr
 Griffiths, H B, MSc PhD *Manc* Lectr
 Rogosinski, H P, BA *Camb* Lectr
 Cohen, D E, MA DPhil *Oxon* Lectr.
 Nelder, J A, MA DiplMathStats *Camb* (Stats) Recog Lectr
 Schick, L H, BSc *Penn*, MSc PhD *Colorado* Temp Lectr
 Storer, W O, MA *Camb.* Temp Lectr
 Parry, W, BSc PhD *Lond*, MSc *Liv* Asst Lectr.
 1 Res Fellow
- Medicine, see below**
- Metallurgy, Industrial**
 Rollason, E C, MSc PhD, FIM Prof
 Wilson, D V, MA *Camb*, PhD *Sheff*, FRIC Sr Lectr
 Kondic, V., BSc *Belgrade*, PhD Sr Lectr
 Bennett, G H J, BSc *Lond.* Lectr
 Roberts, W T., MSc PhD *Wales* Lectr
 Rowe, G. W, MA PhD *Camb* Lectr
 Male, A. T., BSc Asst Lectr.
 5 Res. Fellows

Metallurgy, Physical

Raynor, G. V., DPhil MA DSc Oxon., FRS	Feeney Prof
McQuillan, A. D., BSc Durh, PhD Melb	Res Prof
Cahn, R. W., PhD Camb	Reader
Wright, T., PhD MSc Sheff	Sr. Lectr
Pell-Walpole, W. T., PhD DSc	* Sr Lectr
Glover, S. G., BSc PhD	Lectr
Pratt, J. N., BSc PhD	Lectr
Eshelby, J. D., BSc PhD Brit.	Lectr
Evans, D. J., MSc PhD Wales	Lectr
Smallman, R. E., BSc PhD	Lectr
Smith, R. W., BSc PhD	Lectr
Cockayne, B., BSc PhD	Lectr
Wilson, J. R., BSc Lond, MMet Sheff	Asst Lectr

3 Res Fellows

Microbiology

Catcheside, D. G., MA Camb, DSc Lond, FRS	Prof
Creaser, E. H., BA PhD Camb.	Sr Lectr
Hopton, J. W., MScTech Manc, PhD Leeds	Lectr
Drysdale, R. B., BSc Glas	Lectr
Smith, D. A., BSc PhD R'dg	Lectr

Mining and Minerals Engineering

Ward, S. G., MSc Lond & Bnm, DIC, PhD Lond, FIP	Prof
Graham, J. K. L. (Metalliferous M)	Sr Lectr
Burrows, B. B., MSc	Lectr
(Mine Surveying & M)	Lectr
Thomas, W. G., BSc Wales, PhD	Lectr
Ludlow, N. G. T., MSc	Lectr
Rozelaar, A. J. W., BSc	Lectr
Hoole, R. B., BSc	Lectr
Lawson, G. J., BSc PhD	Lectr
Rawling, J. R., BSc MAsE Br. Col, Scd MIT	Lectr
Brereton, T., BSc Durh	Lectr
Chapman, W. R., MSc PhD Sheff (Coal Preparation)	Hon Lectr

1 Res Fellow

Music

Lewis, A. C., MA Camb & Bnm, MusB Camb	Peyton & Barber Prof
Trowell, B. L., MA PhD Camb	Lectr
Doe, P. M., MA Oxon	Lectr
Fortune, N. C., PhD Camb, BA	Lectr

Philosophy, Mental and Moral

Duncan-Jones, A. E., MA Camb., PhD	Prof.
Whiteley, C. H., MA Oxon., PhD	(Philos) Reader
Geach, P. T., MA Oxon	(Logic) Reader
Mayo, B., MA Oxon	Sr Lectr
Boden, Margaret A., BA Camb	Asst. Lectr

1 Res Fellow

Physical Education

Munrow, A. D., BSc Lond.	Du.
Madders, M. A	Lectr
Knapp, Barbara N., MCom	Lectr
Roberts, Christine D	Lectr
Slater, W. J., BSc Leeds	Lectr
Molyneux, D. D., MA	Asst Lectr
Tuxworth, W. J., BA	Asst. Lectr
Bonser, K. H., BA Nott	Asst. Lectr
Maishall, Shurley	Asst Lectr
Page, A. P	

Physics

Moon, P. B., MA PhD Camb, MSc, FIP, FRS	Poynting Prof, Hd. of Dept
Burcham, W. E., MA PhD Camb, FRS	Olver Lodge Prof.
Johnson, M. C., MA Camb, DSc, FIP (Astrophys)	Reader
Fleming, J. H., MA PhD Camb, DSc, FIP	Reader
Walker, J., BSc PhD, FIP	(Reactor Phys) Reader

Knight, R. H., MSc	Sr Lectr, Tutor
Macfadyen, K. A., MSc Lond, FIP	Si Lectr
Chackett, K. F., BSc PhD	Sr. Lectr
Greenlees, G. W., MA PhD Camb.	Sr. Lectr
Riddiford, L., MSc Melb, PhD DSc	Sr. Lectr
Bracher, D. F., BSc PhD	Lectr
Black, P. J., PhD Camb, BSc Manc.	Lectr
Rolph, P. M., BSc PhD	Lectr
Doan, G. A., BSc PhD Leeds	Lectr
McKee, J. S. C., BSc PhD Belf	Lectr
Glen, J. W., MA PhD Camb	Lectr
Lomer, T. R., BSc PhD Lond	Lectr
Young, J. D., BSc PhD	Lectr
Van der Raay, H. B., BSc Rand, PhD	Lectr
Dyson, N. A., MA PhD Camb.	Lectr
Champney, D. C., BA DPhil Oxon	Lectr
O'Connor, D. A., BSc Lond	Lectr
Whitworth, R. W., MA PhD Camb.	Lectr
Dowell, J. D., BSc PhD	Lectr
van Zyl, C. P., MSc O F S.	Lectr
Swinbank, P., BSc PhD	Lectr
Martelli, G., LabDocFisSup Pisa	Lectr
Harris, R. G., BSc PhD	Asst Lectr
Farr, R. F., MA, FIP	Hon Lectr
Whitaker, P. D., BSc Lond, PhD Nott	Staff Fellow
Finlay, E. A. S., BSc BE Syd., PhD	Staff Fellow
Powell, W. B., MA Oxon	Staff Fellow
Waterton, P. J., BSc Lond, PhD	Staff Fellow

11 Res Fellows

Physiology, see also Zool.

Bush, I. E., MA MB BChur PhD Camb	Bowman Prof, Dir of Dept
Thorpe, W. V., MA Camb., PhD Lond	(Physiol Chem) Prof
Barclay, J. A., MA BSc MB ChB Aberd	(Renal P) Reader
Hall, Kathleen, PhD BSc Wales, DSc	(Histol) St Lectr
Blay, H. G., DSc PhD	(Biochem) St Lectr

Nutt, Marjorie E., BSc *Lond.*, PhD
 Asher, H M F., BA *Camb.*
 Hamley, E J., BA *Tor*, PhD *Lond.*
 Harries, E H L., MB BS PhD *Lond*
 Brown-Grant, K., MA MD *Camb*
 Cunningham, J. D., MB ChB PhD
 Haigh, A. L., BSc PhD *Brist.*
 James, Sybil P., PhD DSc (Biochem)
 White, K., BSc *Lond*, PhD (Biochem)
 Clarke, H G., BSc *Nott*, MB ChB *Edin.*
 Temp Lectr

4 Res Fellows

Political Science

Ferns, H S., MA PhD *Camb* Prof.
 Maddick, H, MA *Oxon.* (Pub. Admin) Lectr
 Tivey, L J., BSc(Econ) *Lond*
 (Pub Admin) Lectr
 Ostergaard, G N., MA DPhil *Oxon* Lectr.

Russian Economic Studies, see Econ and Instns of the U.S.S.R.

Russian Language and Literature

Christian, R F., MA *Oxon* Sr. Lectr.-in-Charge
 Arnan-Baykov, Mrs. Inna, DPhil *Prague* Lectr
 Johnson, D J L., BA PhD Lectr
 Ross, L., BCom Lectr.
 Mitchell, S., MA *Oxon.* Asst. Lectr.
 Alexander, Sara (Colloquial R) Asst

Social Study

Laffite, F., BA *Oxon*
 (Soc. Policy & Admin) Prof.
 Cavenagh, Mrs Winifred E., BSc(Econ)
 DPA *Lond*, PhD Sr. Lectr
 Collis, A., BSc(Econ) *Lond* Lectr.
 Laycock, A. L., BA *Lond*, PhD *Edn* Lectr.
 Shapiro, Mrs Pauline C., MA *Oxon*
 (Child Service Course) Lectr, Tutor
 Timms, N. W., MA *Lond* (Soc. Work) Lectr

Sociology

Madge, C., MA Prof
 Halsey, A. H., BSc(Econ) PhD *Lond.* Sr. Lectr.
 Klein, Josephine, BA *Lond*, PhD Lectr
 Dennis, N., BSc *Lond.* Lectr.
 Baldamus, W., DrRerPol *Fran.* Lectr

Spanish

Manson, J., MA PhD *Edn* Prof
 Atkinson, Dorothy M., MA *Sheff.* Lectr
 Gibbs, J., MA BLitt DPhil *Oxon.* Lectr
 Lora, J. Garcia, MA Lectr
 Inglis, A. D., MA PhD *Edin.* Asst Lectr.
 Burns, Mrs Adelaide, MA *Liv* †Temp Lectr
 Jarero, E (Colloquial S) Asst
 Eastwood, Laliane
 (Colloquial Portuguese) Temp Asst.

Theology

Davies, Rev J G., MA *Oxon.* & *Birm.*,
 DD *Oxon*
 Edward Cadbury Prof, Hd of Dept.
 Smart, R. N., BA BPhil *Oxon.* H G. Wood Prof.
 Dickinson, Rev J. C., BLitt MA *Oxon.* Lectr
 Eaton, J. H., MA *Camb* Lectr.
 Budsall, J. N., MA *Camb*, PhD *Nott.* Lectr

Recognized Lecturers

Curtis, Rev. A. H., MA BD *Edn.*
 Davis, Very Rev. H. F., MA *Oxon.*, DD *Freib*
 Foster, Rev R. J., STL LSS *Rome*
 Gribble, Rev Canon A. S., MA *Camb*
 Herbert, Rev. A. S., MA *Oxon*, BD *Lond.*
 Long, Rev E., MA *Camb* & *Liv*
 Mitton, Rev C. L., BA *Manc*, BD MTh
 PhD *Lond.*
 Strawson, Rev W., BD MTh *Lond.*
 Rodd, Rev C. S., MA *Camb.*
 Lefever, Rev. H. C., BA BD *Lond*,
 DPhil *Tubingen*
 Fenn, Rev J. E., BSc *Lond.*

Zoology and Comparative Physiology

Lowenstein, O. E., DPhil *Mun*, DSc *Glas*,
 PhD, FRs Mason Prof.
 Yapp, W. B., MA *Oxon.* Sr Lectr.
 Finlayson, L. H., BSc *Glas*, PhD Sr. Lectr.
 Gibson, R. J., BSc TD Lectr
 Llewellyn, J., MSc *Wales*, PhD DSc Lectr.
 Murray, R. W., MA DPhil *Oxon.* Lectr
 Potts, W. T. W., MA PhD *Camb* Lectr.
 Manley, Brenda M., BSc *Lond*, PhD *Glas.* Lectr.
 Cohen, J., BSc PhD *Hull* Lectr.
 Sladden, C. R., BSc PhD *Brist*
 (Radiobiol) Lectr.
 Holmes, R. M., BA *Camb* Temp Lectr.
 Wright, D. W., MA *Oxon* Recog Lectr
 † Res Fellow

MEDICINE

(for subjects of first 2 yrs —Anat., etc.,
 see above)

Dean —Prof. A. L. d'Abreu, OBE, MB ChM,
 FRCS
 Deputy Dean —Prof W. M. Arnott, TD, BSc
Edn, MD *Edn* & *Birm* FRCP, FRCPED
 Chairman of Board of Graduate Studies —
 A. G. W. Whitfield, MD PhD, FRCP

Anæsthetics

University Clinical Lecturers
 Clarke, L. T., TD, BSc MB ChB, FFRACS †Lectr.
 Murtagh, B. L. S., MB ChB, FFRACS †Lectr.
 Green, Manon W. S., MB ChB, FFRACS
 Rawlins, G. A., DSC, MB ChB, FFRACS
 Mason, Mrs Helen S., MB ChB, FFRACS
 Mills, Margaret J., MB ChB, FFRACS
 Wall, Doris I., BSc MB ChB
 Welsh, Janet R.

Woodward, J. W., MB ChB, FFARCS
 Guest, Ann A., MB ChB
 Inglis, J. McN., MB ChB *Leeds*, FFARCS
 Lee, R. E., MA BM BCh *Oxon.*, FFARCS
 Pnce, W. L., MB ChB
 Smith, B. H., MB ChB, FFARCS
 Mathews, E. T., MB ChB, FFARCS
 Campkin, T. V., MB BS *Lond.*, FFARCS
 Lumb, Patricia M., MB ChB, FFARCS

Bacteriology

Shrewsbury, J. F. D., MD *Liv & Burm*,
 DPH Prof
 Bisset, K. A., PhD DSc *Edn.*
 (Systematic B.) Reader
 Laughton, Nancy, MD DPH Sr Lectr.
 Mooie, F. W., BSc *Durb* Lectr.
 Cartwright, N. J., PhD *Sheff*, BSc Lectr.
 Conran, M. B., MB BS *Lond.* Lectr.
 Pease, Phyllis E., BSc PhD Lectr.
 Jeaynes, M. H., BSc PhD Lectr.
 Fiewett, T. H., MD *Belf.* Hon Lectr.
 Rogers, K. B., MD *Belf.* Hon Lectr.
 Whitby, J. L., MB BCh *Camb* Univ Clin Lectr
 i Res Fellow

Ear, Nose and Throat, Diseases of

Strang, R. R. S., MB ChB *Glas.*, FRCS
 †Lectr. & †Clin Lectr
 Strong, E. C. N., LDS, FRCS
 †Lectr & †Clin Lectr.
 Univ. Clinical Lecturers
 Adams, W. S., MB ChB, FRCS
 Moffett, A. J., TD, MB ChB, FRCS
 Crabtree, N. L., FRCS
 Evans, R., MD *Belf.*, FRCSEd
 Sr Clinical Tutors
 Walker, C. L., MA ChB *Mane*, FRCSEd
 Downing, W. B. L., MB ChB, FRCSEd

Forensic Medicine and Toxicology

Webster, J. M., CBE, MA BSc MB
 ChB Hon LLD *St And.*, MD, FRCSEd
 Prof

Medical Biochemistry and Pharmacology

Frazer, A. C., MB BS PhD DSc *Lond.*, MD,
 FRCP Prof
 Schneider, R., MD, FRCP Sr Lectr.
 Chance, M. R. A., BSc *Lond.*, PhD DSc
 Sr Lectr.
 Fincan, J. B., PhD DSc Sr Lectr.
 Sammons, H. G., BSc PhD Lectr.
 Pover, W. F. R., BSc PhD Lectr.
 Hawthorne, J. N., BSc PhD Lectr.
 Hubscher, G., MD *Marburg*, PhD Lectr.
 Dykes, P. W., MB ChB *N.Z.* Lectr.
 Dils, R. R., BSc PhD Lectr.
 McArdle, C. E. (Pharmacy) †Demr.
 Marston, A. M. (Pharmacy) †Demr.

Cronin, J. D., BSc (Pharmacy) †Demr.
 8 Res Fellows

Medicine

Arnott, W. M., TD, BSc *Edn*, MD *Edn.* &
Burm, FRCP, FRCPed
 William Withering Prof
 Bishop, J. M., MD Sr Lectr., First Asst.
 Harris, P. C., MD PhD *Lond.* Sr Lectr.
 Cooke, W. T., MA *Camb*, MD *Camb.* &
Burm, FRCP †Reader & †Clin. Lectr.
 Crooke, A. C., MA MD *Camb.*
 Hon. Reader & †Clin. Lectr.
 French, J. M., PhD MD *Lond.* Hon Reader
 Cumming, G., BSc *Lond.*, MB ChB PhD Lectr.
 Davidson, L. A. G., MB ChB *Edn.* Lectr.
 Fletcher, P. F., BSc MD Lectr.
 Whitfield, A. G. W., PhD MD, FRCP
 †Lectr & †Clin. Lectr.
 Davison, P. H., BSc MD, FRCP
 (Med for Dent Students) †Lectr &
 †Clin. Lectr.
 Hall, G. S., MD, FRCP
 (Neurol) †Lectr. & †Clin. Lectr.
 Jefferson, J. M., MA BSc DM *Oxon.*,
 FRCP (Neurol) †Lectr & †Clin Lectr.
 O'Reilly, J. J., MB BCh *BAO Belf.*,
 DPM *Lond.*
 (Psychol Med) †Lectr. & †Clin Lectr
 Sim, M., MD DPM *Edn*
 (Psychol. Med) †Lectr. & (Psychiatry)
 †Clin Lectr.
 Tibbets, R. W., MA BM BCh *Oxon*,
 DPM *Lond.*
 (Psychol Med.) †Lectr & (Psychiatry)
 †Clin Lectr
 Tate, B. C., MBE, MA MD *Camb*, FRCP
 (Dermatol) †Lectr & †Clin Lectr.
 Gaddie, R., BSc PhD *Edn.*, FRIC
 (Clin Biochem.) Hon Lectr. & †Clin.
 Lectr
 Chalmers, J. N. M., MD *Glas*, FRCP
 Hon Lectr. & (Pathol) †Clin. Lectr.
 Meynell, M. J., MD *Sheff*
 Hon Lectr. & (Pathol.) †Clin. Lectr.
 Crane, C. W., BSc MB BS *Lond* Hon Lectr.
 Armitage, G. H., MB ChB *Edn.*,
 FRCPed Hon Lectr.
 Thomson, Sir Arthur, MC, Hon. LLD *Edn*
 & *Burm*, MD FRCP (Med. Hist.) Sr. Fellow
 14 Res. Fellows
 Univ Senior Clinical Tutors
 Fowler, W., MD *Glas*
 Wigfield, A. S., MB BS *Lond*
 Ker, F. L., MB ChB (Infectious Dis)
 Univ Clinical Tutors
 King, Marguerite, MB ChB *Brist*
 Milner, P. F., MB ChB *N.U.I.*, DCP *Lond*
 Univ Assistant Clinical Tutor
 Williams, R. F., MB ChB *Edn.*

Univ. Clinical Lecturers

Bierner, O, MD, FRCP
 Bulmer, E., CBE, TD, MD *Edm*, FRCP,
 FRCPd
 Cant, W H P, MD *Lond*
 (Paediatrics & Child Health)
 Fairburn, E. A., MD *Lond*. (Dermatol)
 Hawkins, C F, MD *Lond*, FRCP
 Humphreys, D. R., MD
 Malins, J M., MD ChB, FRCP
 Nagley, L., MD *Leeds*
 Parsons, C. G., MA MD *Camb*, FRCP
 Sheldon, J H., CBE, MD *Lond*, FRCP
 Smallwood, W C., MD, FRCP
 Taylor, A B, MD, FRCP
 Williams, G E O, MD *Liv*.
 Blainey, J. D., MD *Lond*

Neurosurgery

Hughes, E. B., MB BS *Lond*., ChM, FRCS Prof
 Tutner, E A., MB ChB *Glas*, FRCS
 †Lectr. & †Clin. Lectr
 Small, J M., MB ChB, FRCS Univ Clin. Lectr.
 † Res Fellow

Obstetrics and Gynaecology

McLaren, H. C., MD *Glas*, FRCSed,
 FRFPsGlas, FRCOG Prof
 Edwards, R L., MA *Camb*., MB BS *Lond*
 Sr. Lectr., First Asst
 Little, E. M., MB ChB, FRCSEd Lectr
 Taylor, C W., MB ChB, FRCOG
 Hon. Member of Staff

†Lecturers and †Univ. Clinical Lecturers

Tait, F S., MB ChB, FRCS
 Davidson, S., AFC, MB ChB *Edm*, FRCSEd,
 FRCOG
 Deacon, A L., FRCSEd, FRCOG
 Mills, W G., MB ChB, FRCS, FRCOG
 Shotton, Dorothy M., MB ChB
 Roberts, H., MD *Liv*, FRCSEd, FRCOG

Univ Clinical Lecturers

Dobbie, Mrs Beatrice M W., MA MB BChir
 DMRE *Camb*, FRCS
 Douglass, T., MB ChB *Glas*
 Ganner, P J., BS *Lond*, FRCOG, FRCS
 Hallum, Jean, MB ChB DCH
 Lester, G S., MB ChB, FRCSEd
 Park, L M., MB ChB, FRCS
 Taylor, W A., MD *Dub*, FRCSI, FRCOG

Senior Clinical Tutors

Cope, E., MD *Leeds*
 Mitchell, G., MB ChB, FRCSEd
 Duval, H R., MD CM *Que*, FRCSEd
 Fisher, H J., MB ChB *Wales*, FRCSEd
 Noble, M. J. D., MB ChB *Edm*., FRCSEd
 Parker, R. B., MB ChB *Edm*

Ophthalmology

Evans, L P. J., MA MD *Camb*., FRCS
 †Lectr. & †Clin Lectr.

Univ Clinical Lecturers

Butler, R. D W., BA *Camb*.
 Walker, W M., BSc MB ChB *St. And*, FRCS
 Roper-Hall, M J., MB ChM, FRCS
 Senior Clinical Tutors
 Crews, S J., MA MB BChir *Camb*., FRCSEd
 Rubinstein, K., MD *Besur*, FRCSEd

Paediatrics and Child Health

Hubble, D V., MD *Lond*, FRCP Prof
 Wolff, O H., BA MD *Camb*
 Sr. Lectr., First Asst.
 Bower, B D., MD Sr. Lectr.
 Lloyd, June K., MB ChB *Brist*. Lectr.
 Salt, H. B., MSc, FRIC
 (Clin Biochem) Hon. Lectr
 Smallwood, W. C., MD, FRCP
 †Lectr. & †Clin. Lectr.
 Burns, C. L. C., DPM (Child Guidance) †Lectr.
 Cohen, H M., CBE, MD DPH
 (School Health) †Lectr
 Essex-Cater, A J., DCH DPH
 (Child Welfare) †Lectr
 Kemp, P R., MB ChB *Edm* †Lectr
 Cant, W H. P., MD *Lond*, FRCP
 †Lectr., †Univ Clin Lectr
 Parsons, C G., MA MD *Camb*., FRCP
 †Lectr., †Univ Clin. Lectr
 Wood, B. S. G., DM *Oxon*.
 †Lectr., †Univ Clin Lectr
 Jones, H W E., OBE, MB BS *Lond*,
 FRCP Univ Clin Lectr
 Disney, M E., MD *Lond* Sr Clin Tutor
 Oldham, J S., DM *Oxon* Sr Clin Tutor
 2 Res Fellows

Pathological Studies (Division of)

Experimental Pathology
 Squire, J R., MA *Camb*, MD *Camb* & *Birm*.,
 FRCP
 Leith Prof, Du of Div of Pathol Studies
 Gell, P. G. H., BA MB BChir *Camb*.
 (Immunol. Pathol) Prof.
 Walton, K., MD *Lond*, PhD Reader
 Hardwicke, J., MB BS BSc *Lond*, MD Sr Lectr
 Rowe, D S., MB ChB BSc Lectr
 Soothall, J F., MA MB *Camb* Lectr
 Stanworth, D R., BSc PhD Lectr
 Dykes, P W., MB ChB N Z Lectr
 Blainey, J D., MD *Lond*
 †Lectr. & (Med) †Clin Lectr
 Weiner, W., MD *Prague* †Hon Lectr.
 Crunckshank, C N D., MD *St And*
 †Hon. Lectr
 Bull, J P., MA MD BChir *Camb* †Hon Lectr
 Whitehead, T., FRIC †Hon Lectr
 19 Res. Fellows

Pathology

Orr, J W., BSc DPH *Belf*, MD *Belf* & *Bum*,
 Hon MD *Perugia*, FRCP Prof., Dir of Cancer Res.
 Brewer, D B., MD *Lond* Reader, First Asst

Woodhouse, D. L., PhD MSc, FRIC
(Chem. Pathol.) [Cancer Res.] Reader
Smith, W. T., MD Sr Lectr.
Lannigan, R., MD Glas Sr Lectr.
Heath, D. A., MD Sheff., PhD Sr Lectr.
Howell, J. S., MD

Sr. Lectr., M. C. Smith Lectr.
Taylor, C. W., MB ChB, FRCOG
Hon. Member of Staff, Univ Clin Lectr
Cameron, A. H., MD Durh
Hon. Lectr. & Univ. Clin Lectr
Davis, B. T., MB ChB Lectr
Halley, J. B. W., MB ChB St And Lectr
Parish, D. J., BSc MB ChB Manc. Lectr
Ellis, H. A., MB ChB PhD Lectr
Dyke, S. C., DM Oxon, FRCP
†Curator of Regional Histological Collection
4 Res. Fellows

Univ. Clinical Lecturers
Meynell, M. J., BSc MD Sheff., DPH Leeds
Rogers, K. B., MD Lond.
Chalmers, J. N. M., MD DPH Glas., FRCP

Psychiatry, Experimental

..... Prof
Bradley, P. B., BSc Brist., PhD DSc
(Neuropharm.) Reader, Actg. Hd. of
Dept
Ansell, G. B., MA Camb., PhD Wales
(Neurochem.) Lectr
Key, B. J., BSc PhD (Neuropharm.) Lectr
O'Reilly, J. J., MB BCh BAO Belf.,
DPM Lond.
(Psychol. Med.) †Lectr. & †Clin. Lectr.
Sim, M., MD Edin Univ. Clin. Lectr
Tibbetts, R. W., MA BM BCh Oxon
Univ. Clin. Lectr
Harrington, J. A., MA MD Camb
Sr. Clin. Tutor
1 Res. Fellow

Radiology

Astley, R., MB ChB Univ. Clin. Lectr
Bishop, J. C., MC, MB ChB, FFR
Univ. Clin. Lectr
Smith, O. E., MB ChB, FFR Univ. Clin. Lectr.
Hutton, J. F. K., MA Camb., MB ChB Glas.,
FFR Univ. Clin. Lectr
Howarth, F. H., MA MB BChir Camb.,
DMRD Univ. Clin. Lectr
Jacobs, P., MB ChB Brist. Univ. Clin. Lectr
Moxon, C. P., DMRD Univ. Clin. Lectr
Toye, D. K. M., MB BS Lond., DMRD
Univ. Clin. Lectr
Mucklow, E. H., MB ChB, FFR
Univ. Clin. Lectr

Radiotherapy

Bromley, J. F., OBE, MB ChB Manc., DMRE
Camb., FRCP, FFR Univ. Clin. Lectr
Holme, G. M., MB ChB Univ. Clin. Lectr
Bond, W. H., MB ChB, FRCS Univ. Clin. Lectr
Newsholme, G. A., MA MD Camb
Univ. Clin. Lectr.

Social Medicine

McKeown, T., BA Br. Col., PhD McG.,
DPhil Oxon., MB BS Lond., MD,
FRCP Prof
Record, R. G., MD PhD DPH
Waterhouse, J. A. H., MA Camb., PhD Reader
Lowe, C. R., MD PhD DPH Reader
Mackintosh, Jean M., CBE, MD Glas.,
DPH Glas. & Edin. Sr. Fellow
Leck, I. M., MB PhD Lectr
Wrighton, R. F., MA Camb., PhD Lectr
Edwards, J. H., BA MB Camb Lectr
Mullar, E. L. M., MD MSc Sheff., DPH Lond.
(Pub. Health) †Lectr
Lloyd, W. J., MA MB BChir Camb.
(Occupnl. Health) †Lectr.
Springett, V. H., MD Lond. (TB) †Lectr.
Gordon, C. W., MB Aberd., DrPH Johns H.
†Lectr
Cross, K. W., BSc PhD Sr. Stat. Officer

Surgery

Stammers, F. A. R., CBE, TD, BSc MB ChM,
FRCS Prof.
d'Abreu, A. L., OBE, MB ChM, FRCS
(Cardiac S.) Prof., †Clin. Lectr.
Gissane, W., MB ChM Syd., FRCS,
FRCSed
(Accident S.) Hon. Prof., †Clin. Lectr
Brooke, B. N., MChir Camb., MD, FRCS
Reader, First Asst
Slaney, G., MS Ill., MB ChB, FRCS Sr. Lectr
Ashton, F., MB ChM, FRCS Lectr
Williams, J. A., MB ChB, FRCS Lectr
Gray, J. G., MB ChB Edin., FRCS Lectr
Collis, J. L., BSc MD, FRCS
†Lectr. & †Clin. Lectr
Baines, G. H., MA MB BChir Camb.,
FRCS †Clin. Lectr
Donovan, T. S., MChOrth. Lw., MB ChB,
FRCS, FRCSed
(Orthop. S.) †Lectr. & †Clin. Lectr
Innes, A., MBE, MA BChir Camb., FRCS
†Lectr. & †Clin. Lectr.
Gourevitch, A., MC, MB ChB, FRCS
†Lectr. & †Clin. Lectr
Morrisey, D. M., MCh NUI, FRCS,
FRCSed †Lectr. & †Clin. Lectr
Brookes, V. S., MB ChB, FRCS
†Lectr. & †Clin. Lectr
Dawson-Edwards, P., MB ChB, FRCS
†Lectr. & †Clin. Lectr
1 Res. Fellow
Univ. Clinical Lecturers
Allan, F. G., MB BS Lond., FRCS
Debenham, R. K., CBE, MA MD Camb.,
FRCS
Edwards, J. A. C., MB BS Lond., FRCS
Fulford, J. C., MB ChB, FRCS
Harrison, M. H. M., ChM Leeds, FRCS
Hendry, A. M., MB ChB Aberd., FRCSed
Mansfield, O. T., FRCS (Plastic S.)
Watson, A. B., MB ChM, FRCS

Welsh, F, BSc MB ChB, FRCS
 Abrams, L D, MB ChB, FRCS
 Roberts, K D, MB ChM, FRCS
 Watts, G T, MB ChB, FRCS

Senior Clinical Tutor

Scrace, W H, MB ChB MChOrth *Law*,
 FRCSed (Orthop S)

Therapeutics, see Med Biochem.

EDWARD CADBURY LECTURER IN THEOLOGY

1961-62—Prof J Jeremias, DD

INGLEBY LECTURER

(Appointed biennially)

1961-62—Lord Rothschild, GM, PhD ScD
Camb, FRS

MUIRHEAD LECTURER

(Appointed biennially)

1960-61—No lectures arranged

LEONARD PARSONS LECTURER

(Appointed biennially)

1960-61—Prof L Wilkins, MD

WILLIAM WITHERING LECTURER

(Appointed biennially)

1961-62—Prof J McMichael, MD, FRCS, FRS

INSTITUTE OF EDUCATION

Jeffreys, M V C, CBE, MA *Oxon.* & *Burm*
 Prof. of Educn, Dir of Inst.

Administration

Payne, Ethel R, MSc *Wales*
 Warden Tutor of Inst
 Berry, W. A C, TD, MA *Oxon* Sec. of Inst
 Gomm, G., BA *Oxon*, FLA Librarian
 Axford, Wendy A., MA *Camb* Asst Librarian
 Burden, Muriel I, BA *Lond.*
 (Services to Teachers) Inst. Tutor

Research Department

Peel, E A, BSc *Leeds*, MA PhD DLat *Lond*
 Prof. of Educn, Hd of Dept & of
 Dept. of Child Study

Pringle, Mrs Mia L. K, BA PhD *Lond.*
 Sr Lectr, Dep Hd of Dept of Child
 Study

Sparrow, W J, BSc MA PhD
 (Postgrad Trg) Sr Lectr, Dep Hd
 of Dept

Burroughs, G E R, BSc *Lond*, PhD Sr. Lectr
 Curr, W., MA EdB *Glas* Lectr

Beard, Ruth M, MSc MA PhD *Lond.* Lectr

Gulliford, R, BA *Lond* Lectr

Phillips, C J, BA *Lond* Lectr

Williams, Myfanwy, DipPsych *Lond* Lectr.

Wills, Mrs. Vera W, DipSocStud *Lond.* Lectr

4 Res Fellows

DEPARTMENT OF EXTRA-MURAL STUDIES

Parker, A M, MA *Oxon*
 Sec, Bd of Adult Educn, Dir. of Dept
 Rundle Clark, R. T, MA *Oxon* Sr. Staff Tutor

Senior Lecturers

Meilers, W., MA BMus *Camb* (Music)

Pilgrim, J. E., MA *Lond* (Hist.) [N. Shrops]

Webster, G, MA *Manc* (Archaeol)

Pickvance, T J., MA *Oxon*, BSc R'dg (Biol Sci)

Lecturers

Brinkworth, E R C., BLat *Oxon*, MA

(Archives Studies) [S Warwicks.]

Cope, G, MSc (Theol)

Evans, G L, BA *Wales* (Engl Lit)

Gooder, A, BA PhD *Leeds*

(Hist) [Coventry & Dist.]

Gray, D E, BA (Hist) [E Birmingham]

Gruiter, Alice M, MA *Oxon*

(Engl. Lit) [S.E Staffs]

McNair, D, BA *Durh*

(Sociol) [N & W. Worcs]

Minkes, A. L., MA *Oxon.* (Econ)

Nicklin, Phyllis A, MA (Geog)

Pleydell-Pearce, A. G, BA *Brist*

(Philos) [Wolverhampton & Dist]

Pritchard, E P, BA *Lond.*, FLA

(Govt) Librarian

Richardson, E W M., MA *Oxon*

(Internat. Affairs) [S. & E Worcs]

Rix, M. M., MA *Oxon* (Archit. Hist)

Russell, C. (Fine Arts)

Sawers, R., MA *Oxon* (Philos)

Stanford, S C., BA *Lond* (Archaeol) [Herefords.]

Stopes-Roe, H V, MSc PhD *Camb*

(Phys. Sci)

Taylor, P A M., MA PhD *Camb.*

(American Studies) [Dudley & Dist]

Nuttall, C. S., BA *Wales* (Econ) [H M Forces]

ADMINISTRATIVE AND OTHER STAFF

REGISTRY. Dep. Registrar A D Linfoot,
 MA *Camb* Asst Registrars C Sneed, MCom,
 C. Brackwell, MA, E Fox, MA *Manc*, M A
 Baatz, MA *Oxon*

SECRETARY'S DEPT Asst Secs P. R Burton,
 MC, A H Skene

BURSAR'S DEPT Asst Bursar F C Ott, DSc
 BSc(Econ) *Lond*

LIBRARY Sub-Librarians H B Evans, MA, Margaret P Russell, MA *Edin* Asst Librarians H A Howes, BA, J H Keegan, MA, D B Butler, BA *Oxon*, A Nicholls, BA

MEDICAL OFFICER R H. Bolton, BA BM BCH *Oxon* Asst Med Officer J C Bowie, MB ChB *Aberd* Univ Dental Officer H. Nordan, LDS Asst. Dental Officer. D B. Wells, LDS

APPOINTMENTS BOARD Sec. P. C. Hordern, AFC, MA *Oxon* Asst Secs. A F H Baylis, BA; J C. Gascoigne, OBE, BSc, W H Reeve, MSc

DEPT OF EXTRA-MURAL STUDIES Sec N H B Connor, MA *Oxon* Staff Tutor & Librarian E P Pritchard, BA *Lond*, FLA

LODGINGS WARDEN Edith M Teverson, BSc *Brist*

GUILD OF UNDERGRADUATES Warden Pres (1961-62) A R W-Large. Permanent Sec. R T Jones

WARDENS OF HALLS OF RESIDENCE Women Students: Mrs Julia Friend (University House), Men Students: P C. Hordern, AFC, MA *Oxon*. (Chancellor's Hall), R J Gibson, BSc (Chad Hill), C E Harrold, BSc *Lond*, PhD *Camb*. (The Manoi House)

UNIV TRAINING CORPS (T A). CO: Lt-Col. R. J Gibson, TD.

UNIV AIR SQUADRON CO Sqn Ldr. J D Cotter, DFC

GENERAL INFORMATION

Mason Science Coll, founded in 1880 by Sir Josiah Mason, was renamed Mason Coll in 1892 when it merged with the med fac of Queen's Coll. In 1894 the Birmingham Training Coll for teachers in elementary schs was transferred to Mason Coll, which was incorporated by act of parliament 3 yrs. later as 'The Mason Univ. Coll'. This instn was absorbed in the Univ. of Birmingham, incorporated by royal charter in 1900. The Univ had then a staff of 70 and 678 students of whom only 189 were registered undergrads.

Considerable additions to bldgs and facilities were made from 1900 to 1913 and between 1926 and 1939, and the no. of undergrads increased steadily. In June 1939 the academic staff numbered 159 and there were 1469 full-time students. During the war of 1939-45 devel continued and a considerable contribution was made to the war effort by res. conducted at the Univ. From 1946 to 1960 expansion in both bldgs and numbers proceeded at such a rate that in Oct 1960 there was an academic staff of 605 and 4417 full-time students registered for courses during the 1960-61 session.

CONSTITUTION The governing body of the Univ is the court of governors (presided over by the chancellor), whose executive cittee is the council, which submits an annual report to the court, the senate, which consists of the vice-chancellor and principal, vice-principal, deans of all facs and all profs, regulates academic matters and its activities are subject to review by council. The pro-chancellor presides over the council and the vice-chancellor over the senate. There are 5 facs, presided over by the deans, which have their own advisory bds and cittees. The delegacy of the inst of educn reports direct to senate.

INCOME (1959-60) Total income, £2,688,293 (endowment, donations and subscriptions, £147,391; grants from local authorities, £65,116, parliamentary grants, £1,932,628, students' fees, £233,507, contributions for services of staff, etc.,

£6437, research grants, etc., £298,766, other income, £4448)

FACULTIES AND DEANS (1961-62) *Arts*, Prof A C Lewis (music), *comin & soc sci.*, . . . ; *law*, Prof O Hood Phillips, *med*, Prof A L d'Abreu (cardiac surg), *sci*, Prof. S G. Ward (mining & minerals engin)

UNIVERSITY PRECINCT. The bldgs. of the Univ. are at Edgbaston, about 3 mls. from the centre of Birmingham, on a site which now covers nearly 240 acres. The first bldgs at Edgbaston were completed in 1909.

Bldgs for arts, maths/phys, chem, civil engin, highway engin and law, together with an extension to the students' union and a new wing at the clin res block were opened in 1960. A new refectory and staff house were started in 1959 and will be completed early in 1962. A new bldg for biol scis. is due for completion in 1963 and it is hoped the first pair of new halls of residence will be ready for occupation in Oct 1963. Other new bldgs to be started in 1961 include phys educn. centre, bldg. for fac. of comm & soc sci and new dent hosp. Accommod for phys, metall, mining and minerals engin, and for the inst and dept of educn is to be extended during 1962 and 1963, together with further halls of residence. A further extension of clin res annexe was started in 1960.

LIBRARY About 500,000 vols, incl Barnes libr (med sch.), 70,000 vols; Harding law libr, 10,000 vols, music libr. (Barber Inst), 35,000 items; other sections in depts. of bot., biochem, chem engin, engin piodn, geol., Russian econ, mining and phys. The fine arts libr is part of the Barber Inst. *Special features*: papers of Joseph Chamberlain and Sir Austen Chamberlain, Wedgwood philol libi, Wigan libr of 17th- and 18th-cent theol works, libr of St Mary's Church, Warwick, and Baskerville collection.

MUSEUMS Anat, dent., geol., mining, pathol. physiol, zool., herbarium (bot)

LABORATORIES Chem (special org, phys, electro-chem, analyst and pub. health depts), phys (incl electron phys.), biol, genetics, engin. (incl. electr, mech, prodn, civil and chem), metall (phys and indust), mining & minerals engin (exceptionally well equipped, exper. coal-mine), malting & brewing; biochem, anat, physiol; pathol; cancer res, pharmacol; bacteriol, power-station supplying whole univ with lighting, heat and power. A small OBSERVATORY is attached to the dept of phys. **HOSPITALS** recog for clin instruct.—United Birmingham Hosps (General, Q. Elizabeth, Birmingham and Midland Hosps for Women, Children's, Nerve and Dental), and 14 other hosps for sp teaching under the control of the Birmingham Regional Hosp Bd.

BARBER INSTITUTE OF FINE ARTS, Edgbaston, Birmingham, 13 (tel. Selly Oak 0962), music dept. Selly Oak 0622. The inst was founded by the late Dame Maitha C. H. Barber, who created a trust to promote the study of the fine arts and of music in the univ. Courses in fine arts and of music for the cultural benefit of all students, and in some cases form pt of work required for degrees in other depts. Concerts of chamber music are arranged by the prof of music, and the univ musical soc holds midday concerts during term. The inst contains several galleries and rooms for the exhibition of paintings, drawings, prints, furniture, art-objects and tapestries, a small concert hall; and libraries and admin offices. (For dir, see p 810.)

INSTITUTE OF CHILD HEALTH. The Nuffield Provincial Hospitals Trust has agreed to provide an inst which will be completed in 1961. The inst co-ordinates the activities of the univ dept of paediatrics & child health, the Birmingham Children's Hosp, the Birmingham maternity & child welfare and sch health services, and the coll of General Practitioners. Principal functions are undergrad, and postgrad teaching, paediatric res and liaison with local authority med. officers and general practitioners.

SHAKESPEARE INSTITUTE, Stratford-upon-Avon, Warwickshire (tel. Stratford-upon-Avon 3138). The purpose of the inst. is primarily to encourage and promote advanced work in Shakespearean studies and in related subs.—the Elizabethan age, drama and theatre. See also p 813.

INSTITUTE OF EDUCATION (see also 'Teaching Staff', above). The inst exists primarily to co-ordinate the training of teachers in the W Midlands area under the general responsibility of the univ, and to recommend to the Ministry of Educn for qualification those students who have satisfactorily completed their training. A cert in educn is granted to students after 1-yr, 2-yr. and 3-yr courses of trg. A 1-yr full-time or 3-yr pt-time course for dipl in educn has been instituted, and is open to qualified teachers with not less than 5 yrs' approved professional experience. A supplementary cert is offered to candidates

who successfully complete 1-yr full-time supplementary courses. The inst also offers courses in youth service (2 yrs full-time), maths (2 yrs. pt-time) and sch librarianship (2 yrs pt-time).

The inst maintains a strong res. dept., the staff of which are members of the univ educn. dept. The res. dept. is situated at Selly Wick House, Selly Wick Rd, Birmingham, 29, and includes a dept of child study. The inst publishes a journal, *Educational Review*, 3 times a yr. The governing body of the inst. is the delegacy, which is responsible to senate.

Constituent and associated colls of the inst
(a) *Constituent colls*. Anstey Coll of Phys Educn, Sutton Coldfield, City of Birmingham Coll of Art and Crafts, Margaret St, Birmingham, 3, City of Birmingham Trg Coll, Westbourne Rd, Birmingham, 15, City of Coventry Trg Coll, Charter Ave, Coventry, Dudley Trg Coll, Castle View, Dudley, Hereford Trg Coll, Hereford, Malayan Teachers Coll, Brinsford Lodge, Wolverhampton, St Paul's Trg Coll, Newbold Revel, Stetton-under-Fosse, nr Rugby, St Peter's Coll, Birmingham, 8, Shenstone Trg Coll, nr Kidderminster, Shropshire Coll of Domestic Science and Dairywork, Radbrook, Shrewsbury, County of Stafford Trg Coll, Nelson Hall, Stafford, Westhill Trg Coll, Selly Oak, Birmingham, 29, Wolverhampton Day Trg Coll, Walsall St, Wolverhampton, Wolverhampton Tech Teacher Trg Coll, Compton Rd West, Wolverhampton, City of Worcester Trg Coll, Henwick Grove, Worcester, Dept of Educn, The Univ, Birmingham. (b) *Associated colls*. Birmingham & Midland Inst Sch of Music, Paradise St., Birmingham, 1, William Temple Coll, Rugby, Wolverhampton & Staffordshire Coll. of Technol, Wulfruna St, Wolverhampton.

The inst's headquarters are at Institute House, 50 Wellington Rd, Edgbaston, Birmingham, 15 (tel. Calthorpe 2332).

INSTITUTE FOR ENGINEERING PRODUCTION, Southfield, Norfolk Rd, Edgbaston, Birmingham, 16 (tel. Edgbaston 0390). The inst, which is under the direction of the hd of the dept. of engin production, was opened in 1953, and provides a series of short courses of study and discussions on a residential basis for sr production engineers, operational res, personnel and indust managers. See also p 813.

ADMISSION See Appendix III

NON-MEMBERS OF THE UNIVERSITY. Occasional students, who are not matriculated or of grad. status, who wish to enter the univ for the purpose of attending individual courses, must supply evidence, satisfactory to the dean of the fac and the hd of the dept., that they are qualified to enter upon such courses. Such students will be subject to the univ regns, but are not entitled to wear academic dress.

FIRST DEGREES. 3 yrs —BA (spec), BA (combined subs), BSc in pure sci., BSc in appl sci., BCom, BScSc, LLB, 3 or 4 yrs. according to

qualifs. on entry—BMus; 5½ yrs.—BDS; 6 yrs.—MB ChB.

Candidates who do not reach the required standard for an hon's degree in any fac may qualify for an ord. degree.

BA with hon's may be obtained in any one of the following sp schs: classics, Latin, Greek, anc hist & archaeol, anc & mediev hist, mediev & mod hist., Engl., French, German, Italian, Russian, Spanish, philos., soc & pol. philos., maths., geog., theol., linguistics. Hon's may also be obtained in the exam for the BA degree in combined subjects.

BSc hon's in pure sci may be taken in any of the hon schs in maths., mathl. phys., phys., chem., zool., bot., genetics, bacteriol., microbiol., geol., geog., anatomical studies, physiol. studies, med biochemical studies. BSc hon's in appl sci may be taken in engin (mech., civil, electr., chem., petrol., prodn.), metall (phys. or indust.), mining (coal or metal) & minerals engin and biochem. Courses in mining involve practical work underground.

Candidates who, before admission, pass certain exams of other approved univs in sci or engin, may be permitted to take the final exam for the BSc (hon's) at the end of their 1st yr, and to do advanced or res. work in their 3rd yr.

Subject to certain provisos, grads of Oxford with hon's in the final hon sch of nat sci (engin sci) or of Cambridge with 1st or 2nd class in mech scis tripos are eligible for the BSc degree in mining after 2 yrs' study at Birmingham, suitable engin grads of other approved univs are also eligible for the degree under similar conditions.

Prelim science year. There are sp. arrangements whereby candidates who have taken arts subjs as their main subjs at sch may obtain a univ trg. in the scis. Consideration for admission to this 1st yr (of a 4-yr degree course) may also be given to candidates from schs. where the facilities for teaching sci are limited.

BCom with hon's (a) general course, (b) sch. of Russian studies, (c) for qualified sci. students.

BSocSc with hon's in schs. of econ., pol. & sociol., soc. study, Russian studies, maths., econ. & statistics, geog.

Mrd students may spend their 1st yr at any sch or schs of med recog by the univ, and the senate may recognize exams. passed therein as exempting from the 1st med exam. They may obtain the BSc as well as their med degrees by devoting 7 yrs instead of 6 to study in the univ.

HIGHER DEGREES MA (by thesis resulting from res., or by prescribed course of study and exam), MEd (1 yr. full-time or 3 yrs. pt-time prescribed course, exam. and thesis), MCom, MSocSc (by prescribed course of study and exam), MMus, 1 or 2 yrs. after bachelor's degree; MSc (may be taken in appl. geophys., engin. prodn., chem. engin., indust., metall., electr. machinery, radioactivity, radiobiol., thermodynamics, coal preparation, reactor phys. &

technol., foundation engin. & highway engin., information engin., operational res., biol. engin., as well as in other sci. subjects), 1 yr after BSc hon's or 2 yrs after BSc in sci.; several depts. provide courses of study and exams (as distinct from res. facilities) for MSc, LLM, 2 yrs. (exceptionally, 1 yr) after LLB, BD, not less than 2 yrs after a bachelor's degree approved by the fac. of arts, MD, ChM, MDS, 5 yrs (grads of other approved univs must have completed 2 yrs' approved res. at Birm) after bachelor's degree; PhD (in any fac.), 2 yrs., DLitt, DMus, DSc, LLD, DD, DSocSc. With the exception of DLitt, DMus and LLD, the above higher degrees are open to grads of other univs who fulfil fac. requirements for the degree.

The DMus or LLD may be taken 3 yrs (DLitt 5 yrs) after the MA, MMus, MSc or LLM, or 5 yrs (DLitt 7 yrs) after the corresp. bachelor's degree, DSc, 4 yrs after MSc, or 3 yrs after PhD, whichever time is shorter. Grads of other approved univs. after not less than 2 yrs' postgrad work in this univ provided that at the time work is submitted for degree they are at least of 5 yrs' standing from bachelor's degree, DD, 5 yrs from date of BD or other second degree, DSocSc may be taken 3 yrs after PhD, or 5 yrs after master's degree or 7 yrs after bachelor's degree.

HONORARY DEGREES MA, MEd, DLitt, DD, LLD, MD, DSc, DSocSc.

The univ. does not award EXTERNAL DEGREES.

DIPLOMAS Theology, normally 2 yrs for grads of approved univs, education, 1 yr full-time or 2 yrs pt-time, psychol. of childhood, 1 yr for grads and other approved persons, educnl. psychol., 1 yr postgrad, for grads of approved univs who have obtained BA or BSc hon's in psychol. or who have pursued approved courses in psychol. and who have had not less than 1 yr's teaching experience, for teachers of educationally sub-normal children, 1 yr, commerce, 1 yr for grads of approved univs subject to approval by fac., pub. admin., 1 yr for grads (in any fac.) of univs in the United Kingdom, soc. study, 1 yr for grads preparing for work in the soc. services, soc. work, 1 yr for grads, malting & brewing, 3 yrs, 1 yr for grads, engin. production & management principles, 1 yr postgrad course, dipl. in grad studies biol. engin. (1 yr), chem. engin. (1 or 2 yrs); indust. metall. (1 yr), thermodynamics & related studies (1 yr), mathl. phys. (1 yr), civil engin., foundation engin. & highway engin. (1 yr), mathl. statistics (1 yr); electr. engin. (information engin. & electr. machin.) (1 yr), mining (1 yr).

CERTIFICATES Educn. (1-yr postgrad and 2-yr non-grad courses), theol. (2-yr non-grad course), malting & brewing (2 yrs), malting (2 yrs); soc. study (2 yrs. for non-grads), child service (1-yr course to train suitably qualified persons as children's officers and their assts); supplementary certs. in divinity, local studies and

for teachers of blind children (1-yr courses)
See also 'Institute of Education', above

RESEARCH. A jt. standing cttee of senate and council co-ordinates res work in all fcs, formulates policies of res, obtains funds and co-operates with govt agencies and external bodies. *Annual Report* gives general summary of each yr's depl res., lists publ. work and titles of theses approved for higher degrees.

STUDY LEAVE is given as frequently as possible, usually for 1 term

FEES *Composite annual fees* (covering tuition, exam and graduation fees, and membership of guild of undergrads.) Bachelor's degrees BA and BMus, £56; BD, £42, BSc, £66, MB ChB, £66, BDS, £66 (6th yr, 1 term. £22), BCom and BSocSc, £56, LLB, £56 Higher degrees. MA, MMus, MCom, MSocSc, LLM, MSc (without lab facilities), £42; MSc (with lab facilities) and MSc (grad studies except in engin. prodn & radiobiol), £81; MSc (grad. studies: engin. prodn. & radiobiol), £95; PhD (without lab. facilities), £42, PhD (with lab. facilities), £81. Dipls. and certs: dipl in theol, 1st yr.—£34, and yr—£6; dipl in psychol. of childhood, £51, dipl. in educn psychol, £66, dipl for teachers of educationally sub-normal children, £58; dipl in engin. prodn. & management principles, £95, dipl in grad studies, £81; dipl. in mathl. phys., £58, dipl in malting & brewing, £54, postgrad. dipl in malting & brewing, £54, cert in malting & brewing, £54; cert in malting, £54, graduates' commerce dipl, £41, dipl. in pub admin, £41, soc study dipl, separate class fees with an addnl charge of £7 5s; soc study cert, £36, child service cert, £66, dipl in soc work, £70, cert in educn, £60, dipl in educn, £42; supplementary certs in divinity, £51, in local studies, £60, for teachers of blind children, £70, and in maths., £31

ACADEMIC YEAR Oct. to July 3 terms of 9 or 10 wks each

VACATION COURSES A 6 wks' summer sch. on Shakespeare and Elizabethan lit is held annually at Stratford-upon-Avon during July and Aug. It is concerned with the detailed study of Elizabethan and Jacobean drama and theatre with particular reference to Shakespeare, together with the historical and cultural background of the plays. The summer sch is primarily intended for grads and other advanced students from Commonwealth, American and European univs who have specialized in Elizabethan and Jacobean lit. The dept of extra-mural studies also possesses its own archaeol. centre based on work at the Roman city of Viroconium nr Shrewsbury; during the summer a no of residential courses in excavation techniques and ancillary subjs. are held. Other courses are arranged at Attingham Park and Westham House, the 2 residential colls for adult educn. in the W Midlands. An annual summer sch. is also held, in England or on the continent,

in conjunction with the WEA, usually during the first 2 wks in Aug. Study tours are arranged annually

UNIVERSITY BOARD OF ADULT EDUCATION (*see also 'Teaching Staff', above*) The bd. supervises all the extra-mural work of the univ. Univ extension courses, tutorial, sessional and short courses, summer schs. and other residential courses are held in Birmingham and at centres throughout the W Midlands. There is a jt. cttee for work with the WEA, and another for services educn

POSTGRADUATE AWARDS open to grads of other univs *see p 808.*

RESIDENCE (For wardens, *see 'Admin and Other Staff', above*) For women: Univ House, Edgbaston Park Rd, Birmingham, 15 (tel. Sel 0115) (155 students), fees £122 to £136 p session. For men: Chancellor's Hall, Augustus Rd, Edgbaston, Birmingham, 15 (tel. Edg 2464) (130 students), fees £151 to £6d with rebate to those sharing rooms. Chad Hill, 125 Harborne Rd, Birmingham, 15 (tel. Edg. 0155) (32 students), mainly intended for grad and res students, fees from £4 5s to £4 10s p wk, plus small extras. The Manor House, Bristol Rd South, Birmingham, 31 (tel. Pri. 1638) (150 students); fees £4 7s 6d to £4 15s p wk, plus small extras

APPOINTMENTS BOARD (For officers, *see 'Admin. and Other Staff', above*) The functions of the bd. are to provide information and advice on careers and to assist grads of the univ. to obtain suitable employment. The services of the bd are available without charge to all grads and undergrads of the univ. *Postal address* (see), The Univ., Birmingham, 15, tel. Selly Oak 1301.

GUILD OF GRADUATES The guild is entitled to appoint one rep for every 250 of its members to serve on the univ. court of governors, the present number of reps being 31. One rep of the guild is a member of the univ. council. A *News-letter* is circulated annually to all members

UNIVERSITY OF BIRMINGHAM OFFICERS' TRAINING CORPS Cadets may join for various periods of service which are flexible to enable them to undertake trg without interfering with their univ. degree course. The contingent comprises the following sub-units: Royal Signals, Infantry, Royal Electrical and Mechanical Engineers. Minimum trg obligations are laid down for each yr. Suitable cadets may be recommended to War Office Selection Bd. Further information from the adjutant, U of Burn OTC, Edgbaston, Birmingham, 15 (tel. Selly Oak 0249)

UNIVERSITY OF BIRMINGHAM AIR SQUADRON is establd to promote interest in R.A.F. at the univ. and to maintain close liaison in tech. and res. problems affecting flying, also to attract entrants of good calibre and learning into R.A.F. by providing facilities for undergrads to become acquainted with flying and its assoc. problems

Further information from the C.O., Univ Air Squadron, The Univ, Edgbaston, Birmingham, 15 (tel Edgbaston 4053)

UNIVERSITY HEALTH SERVICE The purpose of this service, which is administered by a full-time Univ medical officer with one full-time asst med officer and two dent surgeons, is to reassure students about the state of their health, to offer them opportunities for maintaining and improving it, and to help to secure early treatment for any disorders which may occur. All freshmen, excepting those eligible for exemption under the regns, are required to attend for a routine med. overhaul and to have a chest X-ray, the X-ray is repeated annually. Ophthalmic treatment under the national health scheme is also available.

GUILD OF UNDERGRADUATES The guild, established under charter of Univ, is the organized assocn of the undergrads for furtherance of their common interests, recog by court, council and senate of Univ for this purpose, represented by 3 members on court of governors. Income of guild, derived from membership fees, is applied to upkeep of the union and Univ athletic union. There is full, assoc, external and hon life membership.

UNION All members of guild of undergrads are entitled to use of the union, which adjoins the Univ Bldgs at Edgbaston.

UNIVERSITY ATHLETIC UNION Membership of union open to full and assoc members of guild of undergrads, provided they are amateurs. The union includes following clubs: *For men* assocn and rugby football, boxing, cycle-racing, golf, rowing, cross country running, weight-lifting. *For women* lacrosse, netball. *For men and women* athletics, basketball, badminton, cricket, hockey, judo, tennis, swimming, table tennis, sailing, squash racquets, fencing, gymnastics, rifle. Extensive grounds, with pavilions, are at the service of the athletic union.

UNIVERSITY STAFF CLUB, Westmead, Edgbaston

Park Rd, Edgbaston, Birmingham, 15 (tel Edgbaston 0290)

PUBLICATIONS * (A) *Official*—Charter of Incorporation, Ordinances, Report of the proceedings of the Council of the Univ (a), Report of the Vice-Chancellor and Principal to the Council (a), Accounts (a), Fees, Univ of Birm. Gazette (7 issues p.a.), Calendar (a), Fac. syllabuses & Information pamphlets (a), Exam papers (a) of each fac and of Inst of Educn; Scholp pamphlet (a), Register of degrees (1900-35, 1936-47, o/p; 1948-56, 1956-59), Proceedings at a congregation of the Univ (June and Dec), Annual sermon delivered at Univ service (a), Report of Jt Standing Cttee for Res (a), Appts Bd report (a), Librarian's report (a), Univ Library Introduction and library regulations (a), Report of Dir of Barber Inst (a), of Barber Prof of Music, of Bd of Adult Educn (a), of Inst of Educn, 1947-50, from 1951 onwards (a). (B) *Periodicals and Monographs Series*—Birm Univ Historical Jnl, 12s 6d (a), Bulletins on Soviet Econ Devel (a), Educnl Review, 5s (a), Engl and Germanic Studies (17s 6d), Fac of Comm Monographs and Studies in Econ and Soc (irregular) (15s each); Shakespeare Survey, £1 1s (a). (C) *Guild of Grads*—Grads' News-letter (a), Med Grads' News-letter (a), Register of Grads, up to 1957 (D) *Guild of Undergrads*—Annual Report, Diary (a), Guild News (weekly in term), The Mermaid (2/a); Carnival Magazine (a). (E) *Student Societies*—Birm Univ Chem Engineer, 3 issues p.a. (6s p.a.), Mining Technical Magazine (a), Queen's Med Magazine (each term), Holdsworth Club, Presidential address (a). (F) *Histories*—Souvenir History of the Foundation and Development of the Mason Science Coll and the Univ of Birmingham, 1880-1930, by Prof F W Burdall and C G Burton (1930), The Med Sch of the Univ of Birmingham, by S Barnes (1938), The Univ of Birmingham, a short history by Emer Prof A M D Hughes (1950), The Univ of Birmingham, its History and Significance, by E W Vincent and P Hinton (1947).

THE YEAR 1960

PRINCIPAL BENEFACTIONS Appeal for halls of residence, £1,433,696 (total to Dec 1960), Wellcome Trust, £60,500, estate of F Barnes, £31,000, Highway Engin Fund, £10,000. (Total value of all benefactions received £1,536,000)

MAJOR BUILDING DEVELOPMENTS Bldgs completed: arts fac bldg, civil engin bldg, highway engin bldg, maths/phys bldg stage II, conversion bldg for use of law fac, extn bldgs to students' union & chem bldg. *Approaching completion*: refectory & staff house, accomm for dept of educn.

NEW DEPARTMENTS AND CHAIRS Dept of mining & minerals engin (formerly dept of mining), dept & chair of sociol (formerly dept of soc sci & sociol & chair of soc sci), and chair of mathl phys, chair of pol sci, and chair of theol. Personal chairs: immunol pathol (Dr P G H Gell), physiol chem (Dr W V Thorpe).

RETIREMENTS Mrs J Drake (dep registrar), Prof F H Garner (chem engin), Prof H P Gilding (physiol), C O Saxby (law), L G Wigan (genetics).

* Abbreviations (a)—annual, (q)—quarterly, (2/a)—twice annually

RESIGNATIONS Vera Adamson (Engl), apptd. to Br Council, Dr M E Beesley (comm), apptd res fellow, London Sch of Econ, Prof G E Brown (mathl phys), apptd prof, Nordisk Inst, Copenhagen, Dr G Bullock (phys metall), apptd to post in industry, Dr M G Cockcroft (indust metall), apptd to post in industry, J B Dwight (civil engin), apptd lectr in engin, Camb, P W Edwards (Engl), apptd to chair of Engl lit, Dub, A H Elam (dent surg), to private practice; Dr G F Eveson (mining and minerals engin), apptd to post in industry, Dr S J Goldsack (phys), apptd sr lectr in phys, Imperial Coll, Lond, Dr F H Hahn (econ), apptd res fellow, Camb., Dr J L Hardwick (dent surg), apptd to chair of prev dent, Manc, Dr F G Healey (French), apptd to chair of French, Magee Univ Coll, Londonderry, Dr C J Hickman (bot), apptd to chair of bot, W Ont; Dr G W Hutchinson (phys), apptd to chair of phys, S'ton, Dr D Jakeman (phys), apptd to post in Atomic Energy Authority, Rev Prof. G W H Lampe (theol., vice-principal), apptd to Ely chair of theol, Camb, Dr J D Lawson (geol), to private work, Dr W O Lock (phys), apptd to post in C.E.R.N., M J D Noble (obster & gynæcol.), apptd consultant, Marston Green Hosp, Dr J Patterson (mech engin), apptd lectr in mech engin, Melb, Dr D S Urch (chem.), apptd lectr in chem, Lond, Dr E E Ward (electr engin), apptd lectr in electr engin, S'ton, G T Watts (surg), apptd consultant, United Birmingham Hosps

DEATHS Emer Prof. Seymour Barling (jt prof of surg, 1931-46), Dr F Barnes (clin lectr & lectr in surg, 1911-32), W. C Camm (hon reader in legal ethics, 1923-60), G A Cheshire (stuf tutor, extra-mural, 1946-60), G H Knight (clin lectr in med, 1948-60), Dr J I Roberts (lectr in zool, 1946-57), D A N Sandifer (lectr. in mech engin, 1927-60), G. Thomas (clin lectr in physiol, 1939-60).

HONORARY DEGREES DSc—Sir Geoffrey Jefferson, emer prof of neurosurg., Manc, Sir Harry Melville, secretary to cttee of Privy Council for Sci & Indust Res., Prof I I Rabi, member

of U.S. President's Sci Advisory Cttee. LLD—H E Gunnar Hagglöf, Swedish Ambassador to Court of St James, Sir Gordon Russell, dir, G Russell Ltd and dir, Council of Indust Des, E W Vincent, managing dir, H Vincent Ltd, life govr and member of council of Birm DLitt—Sir Keith Hancock, dir of res sch of soc sci and prof of hist, A N U, Barbara Hepworth

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	3476	138
Women	941	34
Total	4417	172

Distribution by Faculties Arts, 1217, comm & soc sci, 337, law, 195, med, 679, sci, 2161
Total 4589

Included in the figures above are —

Postgraduate students, 1038
New admissions, 1978
Students from other countries, 494 (Countries from which largest numbers came Iraq, 38, India, 32, Iran, 25, Canada, 24, Nigeria, 24, Pakistan, 23, Trinidad, 16, U.S.A., 16, Hong Kong, 14)

DEGREES AWARDED (1959-60) Arts BA, 1, BA (hons), 199, BMus (hons), 11, BD, 1, MA, 22; DLitt, 1 Comm & soc sci, BCom, 5, BCom (hons), 41, BSocSc, 1, BSocSc (hons), 46, MCom, 2 Law, LLB (hons), 34, LL.M., 1 Med MB ChB, 89, MB ChB (hons), 1, MD, 1, MD (hons), 2, ChM, 2, BDS, 32 Sci BSc, 80, BSc (hons), 350, MSc, 112; DSc, 6 PhD (all facs) 113 Total number of first degrees awarded, 890

DIPLOMAS AWARDED (1959-60) Graduates' comm, 7, grad studies, 38, malting & brewing, 11, psychol of childhood, 17, pub admin, 1, soc study, 1, soc work, 2, theol, 19

CERTIFICATES AWARDED (1959-60) Child service, 15, soc study, 4

UNIVERSITY OF BRISTOL*

Founded 1909, previously established as University College, Bristol, 1876

Postal Address . Bristol 8, England

Cables and Telegrams University, Bristol 8, England

Telephone . Bristol 24161

VISITOR—H M THE QUEEN

CHANCELLOR—The Rt Hon Sir WINSTON CHURCHILL, KG, OM, CH, Hon LLD *Belf., Harv., McG., Brussels, Louvain, Miami, Westminster Coll., Col., Aberd., Ley., St And., Lav., N Y State U. & Brist.*, Hon DCL *Oxon. & Roch.*, Hon DPhil&Hist *Oslo*, Hon LittD *Camb.*, Hon DLat *London*, Hon DPhil *Copenhagen*, FRS (*ex officio* President of Court, Council and Convocation)

PRO-CHANCELLOR—Sir ARTHUR HOBHOUSE, JP, MA *Camb.*, The LORD SINCLAIR OF CLEEVE, KCB, KBE, MA *Oxon*, Hon LLD; H G TANNER, JP, Hon LLD

VICE-CHANCELLOR—Sir PHILIP MORRIS, KCMG, CBE, MA *Oxon*, Hon LLD *Brist.*, McG., Rhodes, Assum., N U I & W Ont.

PRO-VICE-CHANCELLOR—Professor Sir ALFRED PUGSLEY, OBE, DSc *London*, MICE, FRAcS, FRS

CHAIRMAN OF COUNCIL—Sir WILFRID ANSON, MC, MBE, JP, MA *Oxon*

TREASURER—B CLARK

LIBRARIAN—J S. COX, MA *Oxon*

REGISTRAR AND SECRETARY—H. C BUTTERFIELD, MA(Com) *Manc.*, Hon MA

BURSAR—C M. SINGER, JP, BA *Oxon*

FINANCE OFFICER—D C A SMITH, Hon. MA, FCA

TEACHING STAFF

[†=Part-Time]

Agricultural Economics, see Econ

Carlile, N J, MA PhD *Camb.* Lectr
Sims, A P, BSc PhD Asst. Lectr
† Dcmr

Anatomy

Yoffey, J M, MD DSc *Manc.*, FRCS Prof
Metcalf, W K, MB BS *Durh.*, MD Sr Lectr
Hudson, G, BSc MD ChB *Manc.* Lectr
Osmond, D G, BSc MB ChB Lectr
Dowling, B L, MB BS *London* Demr
Rich, W J C, MB ChB Demr
Wilson, A M, MB ChB Demr
Tidman, M K, MB BS *London* Demr
Neale, Mrs Phyllis M, MB ChB *Birm.* †Demr

Chemistry, Inorganic and Physical

Everett, D H, MBE, MA DPhil *Oxon.*,
DSc *Rdg.* Leverhulme Prof
Pollard, F H, DSc PhD (Inorg C) Reader
Dunning, W J, BSc PhD *Liv.* (Phys. C.) Reader

Maxted, E B., DSc *London*, PhD *Berl.* (Catalysts) †Sp Lectr.
Sr. Lectr.

Couper, A, BSc PhD
Dunning, Mrs Kathleen W., BSc Sr. Lectr

PhD *London* Lectr
Seymour, R C, BSc Lectr.
Stone, F S, BSc PhD Lectr.

Woodward, P, BSc PhD (Inorg. C) Lectr.
Hush, N S, MSc *Syd.*, DSc *Manc.* (Inorg C) Lectr

Parsons, R, BSc PhD *London*, Lectr.
Barron, T H K, MA DPhil *Oxon* Lectr

Abel, E W, BSc *Wales*, PhD *London*, Lectr.
Cruckshank, A J B, BSc *Melb.*, MSc *Syd.* (Phys. C.) Lectr

Botany, see also Assoc. Instns., p. 835

Yemm, E. W., BA DPhil *Oxon.* Melville Wills Prof.

Hawker, Lilian E, DSc PhD *London* (Mycol) Reader

Fraymouth, Joan E, MSc PhD *London*, Lectr
Hope-Simpson, J F., MA DPhil *Oxon*, Lectr

Folkes, B F, BSc PhD Lectr.
Willis, A J, BSc PhD Lectr.
Round, F. E., BSc PhD *Birm.* Lectr

Frost, L. C., MA PhD *Camb.* (Genetics) Lectr.

* Member of the Association of Universities of the British Commonwealth

Scott, A. E., BSc PhD *St And.* Lectr.
 Nickless, G., BSc PhD (Inorg C) Lectr
 Munn, R. J., BSc Jr Fellow
 Leadbetter, A. J., BSc PhD *Liv* Res Asst
 2 Res Assts

Chemistry, Organic, see also Assoc Instns , p. 835

Baker, W., MA *Oxon*, DSc *Manc*, FRS A C Pass Prof
 McOrme, J. F. W., MA DPhil *Oxon*, DSc Reader
 Ollis, W. D., BSc PhD Lectr
 Hough, L., MSc PhD *Manc* Lectr
 Battersby, A. R., MSc *Manc*,
 PhD *St And* Lectr
 Barton, J. W., BSc PhD Lectr.
 Sutherland, I. O., MA PhD *Camb* Lectr
 Binks, R., BSc *St And*, PhD Lectr.
 5 Res Assts

Classics

Beare, W., MA *Dub.* (Lat.) Prof.
 Kitto, H. D. F., BA *Camb*, FBA, FRSL (Greek) H O Wills Prof
 Cook, J. M., MA *Camb.* (Anc. Hist. & Class. Archaeol.) Prof
 Eichholz, D. E., MA *Camb.* Reader
 Warrington, B. H., MA *Camb* (Anc. Hist.) Reader
 Guiley, N., MA *Oxon* (Classics & Anc. Philos.) Sr Lectr
 Tester, S. J., BA *Lond* Lectr
 Campbell, D. A., BA *Oxon*, MA *Glas* Lectr
 MacQueen, J. G., MA *St And* Asst Lectr
 Harriott, Rosemary M., BA *Lond* Jr Fellow

Dentistry, see below

Domestic Science, see also Assoc Instns , p. 835

Bradshaw, Nancie E., BA *Lond.* Lectr.
 McQueen, Eileen, BSc *Dub* Tutor

Drama

Wickham, G. W. G., MA DPhil *Oxon* Prof.
 Rowell, G. R., MA BLitt *Oxon* Lectr
 Brandt, G. W., BA *Lond*, MA *Mant.* Lectr.
 Brooke, Iris E. M. Sp Lectr.
 Southern, R., DLitt (Theatre Archt & Stage Des.) tSp. Lectr
 Jones, Marion, MA BLitt *Oxon* Asst Lectr

Economics

Dickinson, H. D., MA *Camb* Prof
 Tress, R. C., BSc(Econ) *Lond* (Pol Econ.) Prof
 Arney, L. R., BSc *Adel.*, BA PhD *Nott.* (Actg) Prof
 Clarke, D. K., CBE, MA *Camb* (Management Studies) Dir
 Giles, B. D., MA *Oxon* Sr Lectr
 Shaw, Lube A. E., MA *Oxon* (Soc. Studies) Sr Lectr

Fleming, J. M., BComSc *Belf* Lectr
 Brooman, F. S., MA *Oxon* Lectr
 Robertson, N., MA BSc *Aberd*,
 BLitt *Oxon*

Lectr, Tutor in Management Studies
 Sampson, R. V., MA DPhil *Oxon*

(Govt) Lectr
 Clements, R. V., BA BLitt *Oxon*, MA *Wis* (Govt) Lectr

Whitaker, J. K., BA(Econ) *Manc*,
 AM *Johns H* (Mathl Econ.) Lectr.

Butler, Baibara M. I., MA *Oxon* (Soc Studies) Lectr.

Bates, J. A., BA PhD *Nott* Lectr
 Buchanan, R. T., MA *Aberd*, PhD *Edm* Lectr

Hart, P. E., BSc(Econ) *Lond* (Econ Stats) Lectr

Mills, G., MA *Camb* (Econ Stats) Lectr
 O'Leary, P. J., BA *Wales*, BPhil *Oxon* Lectr

Magee, B. J. T., BCom *Lond* (Actg) tLectr.
 Cornwell, S. V. P., MA *Oxon*. (Actg) tLectr

Gough, J. O., BA (Actg) tAsst Lectr
 Liepmann, Kate, PhD *Lond*, DPhil *Berl* Res Fellow

Bracey, H. E., MSc PhD *Lond* (Soc Studies) Res Fellow

Loasby, B. J., BA MLitt *Camb.* (Management Studies) Tutor

Holton, C. W. D. (Soc. Casework) Tutor
 Donovan, Ann M., BA (Actg) Res Asst

Economics (Agricultural Economics)

Bristol Province

Dawe, C. V., OBE, MCom *Leeds*, PhD Reader
 Jeffery, R. R., BSc(Agric) BSc(Econ) *Lond* Lectr

Wragg, S. R., MA Lectr
 Baker, V., BSc(Econ) *Lond* Lectr

Cowie, W. J. G., MA *Aberd* Lectr
 Fekete, E. B., LL.D. *Bud* Lectr

Godsell, T. E., BSc *Wales*, MS *Iowa* Lectr.
 Mitchell, G. F. C., BSc(Econ) *Lond* Lectr.

Rendell, J., BSc *Lond* Lectr

Education

Wilson, R. C., MA *Oxon*. Prof
 Morris, B., BSc EdB *Glas* Prof.

Humphreys, D. W., MA *Lond* Sr Lectr
 Pye, Margaret W., BA PhD *Lond* Sr Lectr

Jarman, T. L., MA BLitt *Oxon*,
 AM *Harv.* Lectr

James, W. S., MSc *Lond.* Lectr
 Vinnicombe, Ellen J., MA *Camb*,
 BSc *Lond* Lectr.

Hickman, Gladys M., MA PhD *Lond* Lectr.
 Michael, I., BA *Lond* Lectr

Scott, D. W., MA *Camb* Lectr
 Tait, Marjorie, BA PhD *Lond* Sp Lectr

Jervis, Margaret E., MA *Edin* Lectr.
 Cooper, Dorothy J., MA *Leeds* Lectr

Hannam, C. L., MA *Camb*. Lectr
 Hull, L. W. H., MA *Camb* Lectr

Richardson, J. Elizabeth, MA *Lond* Lectr.

Beedell, C. J., BSc <i>Lond.</i>	Lectr.	Bradshaw, R., MSc <i>Lond</i>	Lectr.
Balbernie, R. W., MA <i>Camb.</i> , BLitt <i>Oxon</i>		Leake, B. E., BSc PhD <i>Lav.</i>	Lectr.
(Residential Care of Children) Res. Fellow		Matthews, S. C., BSc <i>Glas.</i>	Asst. Lectr.
		1 Demr	

Engineering, see below

English			
Knights, L. C., MA PhD <i>Camb</i>			
	Wintestoke Prof		
Tucker, Susie I., MA <i>Oxon</i>	Sr. Lectr.		
Gifford, C. H., MA <i>Oxon</i>	Sr. Lectr.		
Joseph, B. L., MA DPhil <i>Oxon.</i>			
	(E Lat) Reader		
Reynolds, A. B., BA	Sp Lectr.		
Goldsmith, Mrs Margaret E., BA <i>Lond</i>	† Lectr.		
Cottle, A. B., MA <i>Wales</i> , PhD	Lectr.		
Cross, J., MA	Lectr.		
Preston, J., MA BLitt <i>Oxon.</i>	Lectr.		
Bishop, I. B., BLitt <i>MA Oxon.</i>	Lectr.		
Tomlinson, P. P., BA <i>Camb</i>	Lectr.		
Tomlinson, A. C., BA <i>Camb</i> , MA <i>Lond.</i>	Lectr.		
Wilders, J. S., MA PhD <i>Camb.</i>	Lectr.		
Gaskell, R. W., MA <i>Glas</i>	Asst Lectr.		
Littlewood, J. C. F., MA <i>Camb</i>	Asst. Lectr.		

French			
Stewart, W. McC., MA <i>Dub</i>	Prof		
Warne, F. J., BA <i>Lond</i>	Sr. Lectr.		
Gould, S. C., BLitt DPhil <i>Oxon.</i> , BA	Sr Lectr		
Morrison, Mary G., MA <i>Aberd</i> , PhD <i>Camb</i>	Lectr.		
Mellor, G., MA <i>Manc.</i>	Lectr.		
Taylor, S. W., BA PhD	Lectr.		
Watson, D., BA <i>Lond.</i>	Lectr.		
Day, D. A., MA <i>Lond</i>	Lectr.		
Unger, Esther, MA <i>Oxon</i> , PhD <i>Lond</i>			
	Asst Lectr.		
Laverty, Mary R. A., BA <i>Belf.</i> , DU <i>Montpelier</i>	Asst Lectr.		
Henning, T. D., BA <i>Oxon</i>	Jr Fellow		
Edwards, T. T., BA PhD <i>Wales</i>	Jr Fellow		
2 Lecturers			

Geography			
Peel, R. F. E. W., MBE, MA <i>Camb</i>	Prof.		
Walker, F., MA <i>Lav</i>	Sr. Lectr.		
Hannell, F. G., BSc PhD	Sr Lectr.		
Graves, A. M., BSc	Lectr.		
Frey, A. E., BA	Lectr.		
Curtis, L. F., BSc	Lectr.		
Morgan, M. A., MA PhD <i>Camb.</i>	Lectr.		
Smith, D. I., BSc <i>Lond</i> , MSc <i>McG.</i>	Asst. Lectr.		
Harvey, D. W., BA PhD <i>Camb</i>	Asst. Lectr.		
1 Demr			

Geology			
Whittard, W. F., DSc <i>Lond.</i> , PhD <i>Lond</i> & <i>Camb.</i> , FRS	C Wills Prof		
Phillips, F. C., MA PhD <i>Camb</i> (Petrol.)	Reader		
Donovan, D. T., DSc PhD	Lectr		
Ford, I. H., BSc	Lectr		
Cowie, J. W., BSc PhD	Lectr		
Savage, R. J. G., BSc <i>Belf.</i> , PhD <i>Lond.</i>	Lectr.		

German

Closs, A. M., MA DPhil <i>Graz</i>	Prof.		
Morgan, Mrs Estelle, MA PhD <i>Edin.</i>	Sr. Lectr.		
Goodbody, Margaret, MA	Lectr.		
Radcliffe, S., MA <i>Lav.</i>	Lectr.		
Keith-Smith, B., BA <i>S'ton.</i>	Asst. Lectr.		
Walker, C. A. S., BA <i>Belf</i>	Asst Lectr.		
2 Lectors, 1 Sp. Asst			

Hebrew

1 Recog. Teacher

History

Douglas, D., MA <i>Oxon</i> , DUCaen, FBA	Prof.		
Ashworth, W., BSc(Econ) PhD <i>Lond</i>			
(Econ & Soc H) Prof			
Jones, F. C., PhD <i>Harv</i> , MA			
(Far Eastern H) Reader			
McGrath, P. V., MA <i>Lond</i>	Sr. Lectr.		
Sharp, Mrs. Margaret, MA PhD <i>Manc</i>			
(Mediev H) Lectr			
Ross, C. D., MA DPhil <i>Oxon.</i>	Lectr.		
Sherborne, J. W., MA <i>Oxon.</i>	Lectr.		
Marshall, P. D., MA <i>Oxon</i> (Colonial H.)	Lectr.		
Ramsey, P. H., MA DPhil <i>Oxon</i>	Lectr.		
Large, D., MA <i>Oxon</i> & <i>Dub</i> , BLitt <i>Dub</i>	Lectr		
Cole, W. A., MA PhD <i>Camb</i> (Econ. H)	Lectr		
Steer, J. R., BA <i>Lond</i> , MA <i>Oxon.</i>			
(H of European Art) Lectr			
Cannon, J. A., MA <i>Camb</i> , PhD	Lectr		
Fyfe, C. H., MA <i>Oxon</i>	Lectr		
Bethell, L. M., BA <i>Lond.</i>	Asst. Lectr.		

Horticultural Science

Bond, T. E. T., DSc <i>R'dg</i> , PhD <i>Camb</i>			
	Sr. Lectr		
Fowler, V. W., BSc <i>Lond.</i>	Lectr.		

Italian

Bullock, A. O., BA <i>Oxon.</i>	Jr. Fellow		
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Law

Coutts, J. A., MA LLB <i>Camb</i> (Jurisp.)	Prof.		
Hornby, J. A., MA LLB <i>Camb.</i>	Prof		
Forrest, G. A., MA <i>Oxon.</i>	Sr Lectr		
Pettit, P. H., MA <i>Oxon.</i>	Sr Lectr.		
Bain, K. H., LLB <i>Lond</i>	†Sp Lectr.		
Grodecki, J. K., MA <i>Oxon</i> , BenDroit <i>Grenoble</i>	Lectr.		
Pitt, F. W. C., LLB	†Lectr		
Adams, J. E., LLB	†Lectr.		
Hunt, W. E. F., BA LLB <i>Camb</i>	†Lectr.		
Tunkel, V., LLB <i>Nott.</i>	Asst. Lectr.		

Mathematics, Applied

Howarth, L., OBE, MA PhD <i>Camb.</i> , BSc <i>Manc.</i> , FRS	Prof.		
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Chester, W, MSc PhD *Manc*
 Powell, J B L., BSc PhD
 Rogers, M H, BSc PhD *Lond*, FRMetS
 Moore, D W, BA *Camb*
 Drazin, P G., BA PhD *Camb.*
 Paterson, A R, BA *Camb*, MA *Edin*

Reader
 Lectr
 Lectr.
 Lectr
 Lectr
 Lectr

Nye, J F, MA PhD *Camb*
 Devonshire, A F, MA PhD *Camb*
 Fowler, G N, BSc PhD *Manc.*
 Forty, A J, BSc PhD
 Llewellyn, P M., MA DPhil *Oxon.*
 Waddington, C J, BSc PhD
 Lang, A. R., MSc *Lond*, PhD *Camb*
 Freundlich, H. F., MA *Camb.*

Lectr.
 Lectr
 Lectr
 Lectr
 Lectr.
 Lectr.
 Lectr

Mathematics, Pure

Heilbronn, H A, MA *Camb*, PhD *Gött*,
 FRS H. O Wills Prof
 Shepherdson, J C., MA *Camb.*
 Reifenberg, E R, MA *Camb*
 Marstrand, J M, DPhil *Oxon*, MA *Oxon* &
Camb
 Hooley, C, MA PhD *Camb*
 Burgess, D A, BSc PhD *Lond*

Reader
 Reader
 Reader
 Lectr
 Lectr
 Lectr

(Med P.) Lectr.
 Parsons, D., BSc PhD *Sheff.*
 Mercier, R P, MSc *McG*, PhD *Camb*
 Milne, J G C, MA *Camb.*, PhD *Bnm*
 Fowler, P. H., DSc
 Davies, J H., BSc *Wales*
 Takagi, S, DSc *Tokyo*
 Foglio, M E, DrenQu *Buenos Aires*
 Heitler, H, PhD
 Littleton, Marjorie J, BA *Camb.*
 Keller, A, DiplChem *Bud*, PhD
 Bassett, G A., MSc *Lond*
 3 Res. Assts, 1 Recog. Teacher

Lectr.
 (Theoret P) Lectr
 Lectr
 Res Fellow
 Res Assoc.
 Res Assoc
 Res Assoc
 Res Asst
 Res Asst
 Res Asst
 Res Asst

Mechanics, Theoretical, see Engineering, below

Medicine, see below

Metallurgy, see Engineering, below

Music

Grant, W, DMus *Durh.*, FRCO
 Stanley Hugh Badock Prof
 Byard, H, MA
 Mobbs, K W, MA MusB *Camb*, FRCO
 Beaumont, A., BA MMus *Wales*

Lectr.
 Lectr
 Asst Lectr.

Physiology

Brocklehurst, R. J, MA DM BCh *Oxon.*
 Bach, S. J, PhD *Camb*
 Ashford, C A, MA PhD *Camb.*
 Carlyle, A, BA *Camb*, BVSc *Liv*
 Rogers, A F, MD ChB
 Cole, Anne S, BSc PhD *Lond*
 Batten, E H, BSc R'dg, PhD *Lond*
 Williams, T. D., BSc MD ChB *Liv*
 Carter, Sheila B, MSc PhD *Birm*
 Boss, J M N, BSc MB BS *Lond*,
 PhD *Camb*
 Buxton, R St J, MB BS PhD *Lond*
 Phelps, C F, BA *Oxon*
 Barbour, R F., MA *Camb*, MB ChB *Edin*,
 DPM, FRCP
 Hibbitt, K. G., BVSc PhD
 1 Recog Teacher

Prof.
 (Chem P) Reader
 (Chem. P.) Sr Lectr.
 (Vet P) Sr. Lectr
 Sr Lectr
 Lectr.
 (Vet. P. & Histol) Lectr.
 Lectr.
 (Vet P) Lectr
 Lectr
 Lectr
 (Chem P) Lectr
 Lectr.
 (Psychol) † Lectr.
 (Vet Chem P) Asst. Lectr

Philosophy

Körner, S., JurDr *Prague*, PhD *Camb*, MA
 Alexander, P, BA BSc *Lond*
 Macleod, J Wmfred, MA *Glas*, BLitt *Oxon*,
 Sp. Lectr.
 Kirkham, R. M, MA *Oxon*.
 Edgley, R, BA *Manc*, BPhil *Oxon*.
 Nidditch, P. H, MA PhD *Lond*
 Milligan, D. E, MA *Edm.*

Prof
 Reader
 Lectr.
 Lectr
 Lectr
 Asst. Lectr

Physical Education

Williams, A I J, BA *Oxon*.
 Turner, Daphne G

(Men) Lectr, Instr.
 (Women) Lectr, Instr.

Physics, see also Chem., Inorg. and Phys

Pryce, M H L., MA *Oxon* & *Camb*,
 PhD *Prin*, FRS H. O Wills Prof
 Powell, C F, MA PhD *Camb*, ScD *Dub*,
Bordeaux, *Warsaw* & *Humboldt*, FRS
 Melville Wills Prof.
 Frank, F C., OBE, BA BSc DPhil *Oxon*,
 DSc *Ghent*, FRS
 Thompson, N, BSc PhD *Sheff.*
 Burch, C R, CBE, BA *Camb*, PhD *Lond*,
 FRS
 Chambers, R. G, MA PhD *Camb*
 Perkins, D. H., BSc PhD *Lond*
 Gibbs, D F, BSc *Lond*
 Gibson, W. M., MA PhD *Camb*
 Kay, H F, MSc PhD *Manc*

Psychology

Hall, K R L., MA DPhil *Oxon*
 Bowyer, Laura R, MA EdB *Glas.*,
 BSc(Econ) *Lond*
 George, F H, MA *Camb*, PhD
 Playdell-Pearce, I W, BA PhD
 Griew, S., BSc *Lond*, PhD
 Murrell, K. H. F, MA *Oxon*.
 Spencer, J., BA *Camb*
 1 Res Asst

Prof
 Lectr.
 Lectr
 Lectr
 Lectr
 Res. Fellow
 Res Assoc

Religious Knowledge

Grayston, Rev K., MA *Oxon.* & *Camb*
 2 Recog Teachers
 For teachers for the BA in theol. subjects, see
 Assoc Instns, pp 835-836

Sp Lectr.

Social Studies, see Econ

Spanish

Metford, J C J., MA <i>Liv.</i>	Prof
Bacarrisse, S., BA <i>Lond</i>	Asst. Lectr.
Keightley, R. G., BA <i>Camb</i>	Asst. Lectr.
Walker, R. M., BA <i>Mane</i>	Jr Fellow
Weston, Jean G., MA <i>St. And</i>	Jr Fellow
1 Lektor	

Zoology

Harris, J. E., CBE, MA PhD <i>Camb</i> , FRS	Prof
Kitching, J. A., OBE, MA ScD <i>Camb</i> , PhD <i>Lond</i> , FRS	Reader
Hinton, H. E., BSc <i>Calif</i> , PhD ScD <i>Camb</i> , FRS	(Entomol.) Reader
Jenkin, Penelope M., MA <i>Camb</i> , DSc	Sr. Lectr.
Bassindale, R., MSc <i>Sheff</i>	Sr. Lectr.
Sloane, J. F. TD, BSc <i>Glas</i>	Sp. Lectr.
Crofton, H. D., BSc PhD <i>Durh</i>	(Parasitol.) Lectr.
Whiting, H. P., DSC, MA PhD <i>Camb</i> , (Vertebrate Z.)	Lectr.
Clark, R. B., BSc <i>Lond</i> , PhD <i>Glas</i> .	Lectr.
Wilson, R. S., BSc PhD <i>Edin</i>	Lectr.
Caldwell, F. C., MA DPhil <i>Oxon</i>	(Biochem.) Lectr.

2 Demrs, 1 Res Asst

DENTISTRY

(For subjects of first two years—Anat., etc., see above)

Dental Medicine

Darling, A. I., DDS <i>Durh</i> , FDSRCS	Prof
Fletcher, J. P., BDS, FDSRCS	Lectr.
Thomas, N. R., BSc BDS	Lectr.
Snawdon, J. W. E., MB ChB MDS, FDSRCS (Anat., Physiol & Histol.)	†Lectr.
Wells, J., LDS, FDSRCS (Jusap.)	†Lectr.
Stack, M. V., MSc PhD <i>Lond</i>	Res Fellow
Poole, D. F. G., BSc PhD	Res Assoc

Dental Surgery

Bradford, E. W., MDS <i>Sheff</i> , DDS <i>St And</i>	Prof
Crabb, H. S. M., MDS <i>Lond</i> , PhD, FDSRCS	(Operative) Lectr.
Berry, D. C., MDS PhD	(Prosth. & Dent. Surg.) Lectr.
Cooper, J. S., BDS	(Prosth.) Lectr.
Brooks, A. W., BDS	Lectr.
Mortimer, K. V., BDS	Lectr.
Nicol, W. A., DDO <i>Glas.</i> , LDS	
	(Orthodontics) †(C)*
Connor, D. C., LDS	†(C)
Snawdon, J. W. E., MB ChB MDS, FDSRCS	†(C)
Tratman, E. K., OBE, MD <i>Malaya</i> , MDS, FDSRCS	†(C)
Simmonds, N. H., LDS	
	(Dent. Radiol.) †(C), †Lectr

* (C) = Clinical Teacher

Bakewell, W., LDS

4 Tutors, 8 Recog Teachers

†(C)

ENGINEERING

Aeronautical Engineering

Collar, A. R., MA <i>Camb</i> , DSc <i>Lond</i> , FRAeS	Sir George White Prof
Lawson, T. V., BSc <i>Leeds</i>	Lectr.
Boswell, R. P., MSc (Eng) <i>Lond</i> .	Lectr.
Tinkler, J., BSc PhD <i>Lond</i> .	Lectr.
Flower, J. W., BSc	Lectr.
Lloyd, D. H., BSc	Asst. Lectr.

Civil Engineering

Pugsley, Sir Alfred, OBE, DSc <i>Lond</i> , MICE, FRAeS, FRS	Prof.
Gibbs, E. F., MSc PhD <i>Lond</i>	Sr. Lectr.
Cullmore, M. S. G., BSc PhD	Sr. Lectr.
Lainach, W. J., MSc <i>Durh</i>	Lectr.
Severn, R. T., BSc PhD <i>Lond</i>	Lectr.
Park, R., MENG N Z	Lectr.
Smith, B. S., BSc <i>Mane</i>	Jr Fellow
Quick, M. C., BSc	Res Asst
Redwood, R. G., BSc	

Electrical Engineering

Rawcliffe, G. H., MA <i>Oxon</i> , DSc <i>Aberd</i> , MIEE	Prof.
Chard, F. de la C., MSc <i>Lond</i> , MIEE	
Sutcliffe, H., MA <i>Camb</i>	Sr. Lectr.
Burbridge, R. F., BSc PhD	Lectr.
Storey, D. J., MA <i>Camb</i>	Lectr.
Johnston, W. G., MSc <i>Lond</i>	Lectr.
Broadway, A. R. W., BSc	Jr Fellow
Umbreit, W. P.	Res Assoc
2 Res Assts	

Mechanical Engineering

Morrison, J. L. M., CBE, DSc, MIMechE	Prof
Rogers, G. F. C., BSc	Sr. Lectr.
Dearden, W. H., MSc <i>Mane</i> , FIM, FRIC	(Metall.) Sr. Lectr.
Mayhew, Y. R., BSc <i>Lond</i> .	Lectr.
Bones, J. A., BSc	Lectr.
Threlfall, P. M., MScTech <i>Mane</i>	Lectr.
Parry, J. S. C., BSc PhD	Lectr.
Haines, D. J., BSc <i>Nott</i> .	Lectr.
Hollingworth, M. A., BSc <i>Lond</i> , PhD <i>Ston</i>	Lectr.
Andrew, C., MA <i>Camb</i> .	Lectr.

Theoretical Mechanics

Shepherd, W. M., DSc <i>Lond</i>	Prof.
Newing, S. T., BSc <i>Lond</i>	Sr. Lectr.
Gaydon, F. A., MSc <i>Lond</i>	Sr. Lectr.
Nuttall, H., BSc <i>Lond</i> & <i>Mane</i> , PhD <i>Birm</i> .	
Sowerby, L., MA <i>Camb</i>	Lectr.
Poots, G., BSc PhD <i>Belf</i>	Lectr.

MEDICINE

(for subjects of first 2 yrs.—Anat., etc., see above)

Anæsthetics

Clutton-Brock, J., MA MB BChir Camb.,
FFARCS Lectr, Hd of Dept
Burton, G. W., BSc MB ChB Leeds,
FFARCS Lectr
Bradbeer, E. G., FFRACS †Lectr.
Baxter, V. T., MB ChB, FFRACS †(C)*
Feneley, G. L., MB ChB, FFRACS †(C)
Moore, R. H., MB ChB, FFRACS †(C)
Gorham, A. P., MB ChB, FFRACS †(C)
Taylor, J. T. C. †(C)
Challenger, J. H., MB ChB, FFRACS †(C)
5 Tutors

Bacteriology

Cooper, K. E., BSc PhD Leeds Prof
Gillespie, W. A., MA MD Dub, DPH,
FRCPI (Clin. B) †Prof
Mayr-Harting, Mrs Anna, MD Prague,
PhD Lectr
Linton, A. H., MSc PhD (Vet B) Lectr
Ware, G. C., MA PhD Dub. Lectr
Hedges, A. J., BSc PhD Lectr
Peacock, D. B., MB ChB Lectr
Cayton, H. R., MB ChB †Lectr.
Clarke, Suzanne K. R., MD ChB (Virol) †Lectr.
Churcher, Gillian M., MB BS Lond Demr
6 Recog Teachers

Child Health

Neale, A. V., MD Birm, DPH, FRCP Prof
Marrian, Valerie J., MB ChB Edin Lectr.
Apley, J., MD Lond, FRCP †Lectr (C)
Corner, Beryl, MD Lond, FRCP †Lectr (C)
Walker, Sarah C. B., MD DPH Lond †(C)
Smallwood, A. L., MD DPH Liv †(C)
3 Tutors, 4 Recog Teachers

Dermatology

Evans, C. D., OBE, MA MD BChir Camb. †(C)
Warrin, R. P., MD Leeds †(C)
2 Tutors

Laryngology, Rhinology and Otolaryngology

James, J. A., MD Lond., MB ChB, FRCS †Lectr, Hd of Dept
Fairman, H. D., MB BS Lond., FRCSEd †(C)
Freeman, J., MB BS Lond., FRCS †(C)
Malcomson, K. G., MB ChB BAO Belf.,
DLO Lond., FRCS †(C)
3 Tutors

Medicine, see also Pathol., Pharmacol.

Perry, C. B., MD, FRCP Prof.
Read, A. E., MD BS Lond., MRCP Lectr.
Campbell, A. M. G., DM Oxon, FRCP †Lectr.
Cates, J. E., MD Lond., FRCP †Lectr.

Coles, D. R., BSc MD, MRCP †Lectr
Davies, D. H., MD Camb., FRCP †Lectr
Naish, J. M., MA MD Camb., FRCP †Lectr
Kersley, G. D., MA MD Camb., FRCP (Rheumatic Dis.) †Lectr.
Pe arson, J. E. G., MA DM Oxon, FRCP (Pulmonary Dis.) †Lectr.
Tovey, G. H., MD (Hæmatol.) (C), †Lectr.
Gibson, C. R., MB ChB Glas (Forensic Med.) †Lectr.
Roberts, J. A. F., MA Camb., DSc MD Edin, FRCP (M. Genetics) †Sp Lectr
Barritt, D. W., MD Lond., MRCP †(C)
Alexander, A. J. P., MD BAO Belf., MRCP (TB) †(C)
Craig, R. A., BSc MD Lond., MRCP (TB) †(C)
Roberts, A. T. M., MD Lond., MRCP (TB) †(C)
Mather, H. G., MD Cleveland & Camb., MRCP †(C)
Macrae, J., MD DPH Glas., FRFP SGlas. (Fever) †(C)
Walley, R. V., BA MD BChir Camb. (Fever) †(C)
Page, F. T., MD BS Lond., MRCP †(C)
Gough, K. R., MD ChB Res Fellow
5 Tutors, 3 Recog. Teachers

Neuro-Surgical Unit, see also Surg.

Alexander, G. L., MD ChB BSc Edin, FRCS Surgeon-in-Charge †(C)
1 Recog Teacher

Obstetrics and Gynæcology

Lennon, G. G., MB ChM Aberd., FRCOG Prof
Abbas, T. M., MD ChB Edin., FRCSEd Lectr
Loxton, S. D., MB ChB, FRCS †Lectr
Shepherd, H. L., ChM MB, FRCOG †Lectr
Bennett, Marjorie, MD Lond., ChM, FRCS, FRCOG †(C)
Crossley, J., MA MB BChir Camb., FRCS †(C)
4 Tutors, 1 Recog Teacher

Ophthalmology

Palin, A., MA BM BCh Oxon, FRCSEd †Lectr, Hd of Dept
Brown, C. A., MA MD Aberd., DOMS, FRCS †(C)
Jardine, P., DOMS, FRCSEd †(C)
Clifton, F., MA MB BChir Camb., DOMS †(C)
Phillips, C. I., MD DPH Aberd., FRCS †(C)
Pullar, A. J. G., MB ChB Glas., FRCSEd †(C)
2 Tutors

Pathology

Hewer, T. F., MD, FRCP Prof
Hunt, A. C., MD BS Lond. (Forensic P) Lectr.
Sandry, R. J., MD ChB Lectr.
Lloyd, O. C., MA MD Camb Lectr.
Halford, M. E. H., MD Lond., MRCP Lectr.
Sanerkin, N. G., DCP Lond., MD Lectr.
Taylor, A. L., MD Leeds (Clin. P.) †Lectr.

* (C) = Clinical Teacher

McGowan, G. K., BA BM BCH *Oxon*
(Chem. P.) †Lectr.
Lewis, F. J. W., MB ChB
(Clin. P. & Haematol.) †Lectr.
Norman, R. M., DPM *Lond*, MD, MRCP
(Neuropathol.) †Lectr.
Raper, A. B., BSc MD *Leeds*, MRCP †Lectr.
Price, C. H. G., MD Res Fellow
Jeffree, Grace M., BSc *R'dg*, PhD
(Biochem.) Res Fellow
Meek, E. S., MD *St And*
(Cancer Res.) Res Fellow
Kon, Vanda M., BVSc (Vet. P.) Jr Fellow
Drasey, T. F., MB ChB Demr
Faint, Sheila A., MB ChB Demr
Lamb, D., BSc MB BS *Lond* Demr
3 Tutors, 4 Res Assts, 1 Recog. Teacher

Pharmacology and Practical Pharmacy

Holler, H. S., MD *Camb*, PhD *Prague*,
MRCP Prof
Ginsburg, M., BSc PhD *Edin.* Reader
Fitzpatrick, R. J., BSc PhD *Lond*
(Vet. Pharmacol.) Sr Lectr
Bentley, P. J., BSc PhD *W Aust*
(Vet. Pharmacol.) Jr Fellow
Lederis, K. P., BSc PhD Jr Fellow
Noddle, Barbara, MA VetMB *Camb.* Res Asst.
1 Recog. Teacher in Pract. Pharm.

Psychiatry

Hemphill, R. E., MA MD BAO *Dub.*, DPM
†Lectr., Hd. of Dept
Barbour, R. F., MA *Camb.*, MB ChB *Edin.*,
DPM, FRCP †(C)
Leitch, A., MD *Glas*, DPM *Lond* †(C)
Heston Ward, W. A., MB ChB DPM †(C)
Early, D. F. M., DPH DPM *N U I.* †(C)
Walker, W. L., MB ChB DPH *Aberd.*,
DPM *Lond* †(C)
Valentine, M. G., MD *Aberd*, DPM †(C)
Lancaster, N. P., MD ChB *Manc*,
DPM *Lond*. †(C)
1 Tutor, 4 Recog. Teachers

Public Health

Wofinden, R. C., MD DPH DPA *Lond* †Prof
Herdan, G., MSc *Lond*, PhD *Vienna*,
LLD *Prague* (Stats.) Lectr
Duncan, Ethel H. L., MA BSc *Aberd*
(Med. Stats.) Lectr
Bothwell, P. W., MB ChB DPH *Aberd* †Lectr
Phillips, H. T., MD *Lond* †Lectr
Whittle, E. G., BSc *Lond*, FRIC
(Chem. of Hyg.) †Lectr.
Dembrey, I., BSc, FRIC
(Chem. of Hyg.) †Lectr.
Faulkner Hudson, T. G., MD *Lond*,
MRCP (Indust. Hyg.) †Lectr.
Kelly, G. C., CBE, BSc MD *Aberd*,
DPH *Lond*. (Hosp. Admin.) †Lectr.
Skone, J. F., MD *Lond*, DPH †Lectr.
4 Recog. Teachers

2 R

Radiodiagnosis

Middlemiss, J. H., MD *Durh*, FFR
†Lectr., Hd. of Dept
Sparks, J. V., BA DMRE *Camb*, MRCP †(C)
Gaskell, K. H., MA BChir *Camb.*, DMRD †(C)
Wansbrough, T. B., DMRE *Camb*, MB
ChB †(C)
Airth, G. R., MB BS *Durh*, DMRD †(C)
Ross, F. G. M., BA MB BCh *Dub*,
DMRD, FFR †(C)
Gordon, I. R. S., MD *Camb*, DMRD,
MRCP †(C)
Thomson, J. L. G., MD *Lond*, DMRD,
MRCP †(C)
Evans, K. T., MB ChB *Birm.*, DMRD,
MRCP, FFR †(C)
4 Tutors

Radiotherapy

Tudway, R. C., BSc MB BS DMR *Lond*,
FFR †Lectr., Hd. of Dept
Curwen, S., DMRT †(C)
2 Tutors, 1 Recog. Teacher

Surgery, see also Neuro-Surg.

Milnes Walker, R., MB MS *Lond*, FRCS Prof.
Peacock, J. H., MB ChM *Birm.*, FRCS Lectr.
Vowles, K. D. J., MB ChB, FRCS Lectr.
Eyre-Brook, A. L., MB MS *Lond*, FRCS
(Orthop. & Fractures) †Lectr.
Pridic, K. H., MB ChB, FRCS (Orthop.) †Lectr.
Miller, A., MA MD *Camb*, FRCS (Urol.) †Lectr.
Capper, W. M., MB BS *Lond*, FRCS †Lectr.
Horton, R. E., MBE, MB MS *Lond*,
FRCS †Lectr.
Pocock, J. A., MA MB BChir *Camb*,
FRCS †Lectr.
McPherson, A. G., BA MB MChir *Camb.*,
FRCS †(C)
Cooke, R. V., MB ChM, FRCS †(C)
FitzGibbon, G. M., MD *Lond*, FRCS
(Plastic S.) †(C)
Paul, R. G., FRCS †(C)
Belsey, R. H. R., MB MS *Lond*, FRCS
(Thoracic S.) †(C)
Lucas, H. K., MBE, MB MChOrth *Lev*,
FRCSed †(C)
McCormack, M. P., MB ChB *Edin*,
FRCSed (Orthop.) †(C)
Mitchell, J. P., MB MS *Lond*, FRCS (Urol.) †(C)
Bourne, H. K., BA MB BCh BAO *Dub*,
FRCS †(C)
7 Tutors, 4 Recog. Teachers

Venerical Diseases

Tinkler, A. E., MA MD BAO *Dub* †(C)

VETERINARY SCIENCE**Animal Husbandry**

Ewer, T. K., BVSc *Syd*, PhD *Camb* Prof.
McCrean, M. R., BVSc Sp. Lectr.
Jaffe, W. P., BSc(Agric) *Wales*, PhD *Edin.* Lectr.

Radford, P, BScAgric *Nott*, PhD
Manners, M. J., BSc(Agric) *Lond*,
MScAgric *Nott*

Veterinary Anatomy

Ottaway, C. W., PhD *Camb*, FRCVS Prof
Smith, R. N., PhD, FRCVS Lectr
Marrable, A. W., BSc *Lond*
(also Embryol) Lectr.
Ashdown, R. R., BVSc PhD Lectr.

Veterinary Medicine

Grunsell, C. S. G., PhD *Edin* Prof
Holmes, J. R., MVSc PhD *Lvo* Sr Lectr
Kidder, D. E., BSc PhD *Lond*
(Chem. Pathol) Lectr
Wright, A. I., BVSc *Lvo* (Clin. Parasitol.) Lectr
Penny, R. H. C., BSc *Lvo* Lectr.
Osborne, A. D., DVSM
(Vet Pub Health) Lectr
Dungworth, D. L., BVSc *Lvo*, PhD *Calif*
(Clin Pathol) Lectr.
Wilson, M. R., BVSc (Clin. Pathol) Jr. Fellow
3 Recog Teachers

Veterinary Physiology, see Physiol.

Veterinary Surgery

Messervy, A. Prof
Yeats, J. J. Lectr
Weaver, Barbara M. Q. Lectr
Pearson, H., BVSc Lectr
David, J. S. E., BVSc Lectr
Clark, W. T., BVMS *Edin* Asst. Lectr
Halliwell, R. E. W., BA VetMB *Camb.*
Jr. Fellow
1 Recog Teacher

INSTITUTE OF EDUCATION

Morris, B. S., BSc EdB *Glas* Prof., Dir.
Berry, Hannah M., BSc *Lond*. Sr. Lectr
Spencer, Mrs Margaret D., MA *Edin*. Lectr
Lang, J. G., MA *St And.* & *McG* Sp. Lectr
Allaun, Miss Ray P., BA *Lond* Sp. Lectr
Knowlson, H., BSc PhD *Leeds*
Staff Tutor & Sp Lectr
Brumer, M. A., MA *Camb.* Lectr
Tapper, E. W., BSc *Lond* Res. Fellow
Stott, I. F. G., MA BD *St And*
Tutor to Overseas Students
Robert, C. W., MA *Camb.*
Tutor to Overseas Students
Savory, H. J., MSc †Tutor to Overseas Students
Shipway, Inez M., BSc *Lond*
Chief Asst in Inst Library
Kaye, Mrs Cicely Y., LLB †Res Asst
Bradby, E. L., MA *Oxon*. †Lectr
Bradshaw, Nancie E., BA *Lond* †Lectr
Chalker, J. B. †Lectr.
Dawson, Alice M., MA *Birm* †Lectr
Ellis, C. †Lectr
Graham, Margaret M., MA *Oxon*. †Lectr.

Grubb, Violet M., DSc *Lond* †Lectr
Hall, Valentine N., MA *Lond* †Lectr
Jones, Ethel W., BA *Wales*, MA *Lond* †Lectr.
Neilson, Elizabeth B. †Lectr.
Wharton, J. T., MA *Camb.* †Lectr
Andersen, Dagmar S., BA *Lond* †Sp. Lectr.
Barnard, Elsie J. †Sp. Lectr.
Bowen, Mabel, BSc *Lvo* †Sp. Lectr.
Burridge, Frances R. †Sp. Lectr.
Cranswick, Margaret E., BA *Lond* †Sp. Lectr.
Gregory, F. F., MA *Lond* †Sp. Lectr.
Horstmann, F. C. †Sp. Lectr
Humphreys, Mrs. Mary E.,
BA *Manc* †Sp. Lectr
Melhuish, Dorothy E., BA *Lond*. †Sp. Lectr
Pariott, Winifred V., BA †Sp. Lectr
Rossetti, R. M. †Sp. Lectr
Sayer, H. W. †Sp. Lectr
Symons, Doreen I. †Sp. Lectr

TRAINING COURSE FOR HEALTH VISITORS

8 Recog Teachers

EXTRA-MURAL STUDIES

Salt, W. E., OBE, MA *Sheff.*, BCom *Manc.*
Dir of Dept
Walthew, F. W., MA *Camb* Asst to Dir
Owen, F. S., BSc(Econ) *Lond*
(Services Educn) Asst. to Dir
† Extra-Mural Lectrs. . 80 members of Univ.
staff, 115 others

Resident Tutors

Bristol

Hopkins, P. W., BA, Burton, J. C. G., MA
Camb., Thomas, J. L., BA *Lond*

Dorset

Oilet, F. A., MA *Camb.*; Waring, E., MA MLitt
Camb.

Gloucestershire

Taylor, W. R., BSc(Econ) *Lond*; Tucker,
H. F. G., MA, Driver, P. M., BSc *Durh.*,
PhD *McG*.

Somerset

Cair, S. H., BSc(Econ) *Lond*. (Sr. Lectr.),
Durham, I. L., MA *Oxon.*, Sharp, S., MA
Leeds

Wiltshire

Ross, H., BA *Lond*; Hare, A., MA; Smith, D.,
MA *Oxon*

Staff Tutors

Ariss, R. F., DrJurUtr *Jena* (Services Educn);
Cunliffe, G., BSc *Manc* (Nat Sci), Smith,
M. G., MA *Oxon* (Phys.)

ADMINISTRATIVE AND OTHER STAFF

OFFICE OF THE REGISTRAR AND SECRETARY.
Asst. Registrars and Secs. A Fraser, BA Leeds,
E C Wright, MA Oxon. Admin. Assts
A G W Moon, BSc, W A Husband, TD,
BCom Durh., Margaret E Gibbons, BSc Lond.,
P L Golding, LLB Lond. Exams. Officer.
A J Davis. Publicns. Officer. B O Latten.

OFFICE OF THE BURSAR. Asst. Bursar (Pro-
perty) A. G. Jones. Asst. Bursar (Works)
C. N. Thompson. Asst. Bursar (Domestic)
Dorothy M. Woodcock, MA Oxon. Catering
Supervisor. Mary J E Mortimer.

OFFICE OF THE FINANCE OFFICER. Asst. Finance
Officer T. B. Smith, FCA. Admin. Asst.
J A Gunn, BA Lond.

APPOINTMENTS BOARD. Sec. Elsie M Biggs,
BSc PhD Leeds. Asst. Secs. Aubrey Heckels,
BSc Manc., B W. Taylor, CB, DSO.

WARDENS OF HALLS OF RESIDENCE. J. F. Sloane,
TD, BSc Glas (Wills Hall); A B Reynolds, BA

(Churchill Hall), A M. Graves, BSc (Burwalls),
J Winifred Macleod, MA Glas, Blatt Oxon.
(Clifton Hill House), Marjorie Tait, BA PhD
Lond (Manor Hall), J R Holmes, MVSc PhD
Lrv. (Langford House).

WARDENS OF FRY AND HALDANE SOCIETIES
Daphne Turner (Fry Soc.); F. Walker, MA Liv.
(Haldane Soc.)

ADVISER TO OVERSEAS STUDENTS. F. T. Bennett,
BA Camb.

INSTITUTE OF EDUCATION. Sec. J G Lang,
MA St And & McG. Asst. Secs. Miss Ray P
Allaun, BA Lond., Joan I. Beale, BA Lond.

STUDENT HEALTH. Mod. Officer-in-Charge.
D G. H. Sylvester, MD Lond. Asst. Med.
Officers. M J Conway, MB ChB Manc., I A
Hawkins, MB BS Lond.

LIBRARY. Dep. Librarian. J Lightbown, MA
Leeds. Sub-Librarian. A E S Roberts, MA
Chief Asst. M. D. Berry, BA.

ASSOCIATED INSTITUTIONS

in which specialized teaching is given or facilities for research are afforded:—

Agriculture

LONG ASHTON RESEARCH STATION (Dept of
Agric and Hort.), Long Ashton, Bristol (tel
Long Ashton 2181). Dir & univ. prof. of
AGRIC AND HORTIC. SCI.—H G H Kearns, OBE,
BSc Lond., PhD Camb. PLANT PATHOL.—R. W
Marsh, MA Camb., Asst. Dir & Reader. CHEM
OF INSECTICIDES AND FUNGICIDES.—J T Martin,
DSc PhD Lond., Asst. Dir. & Reader. With the
standing of sr lectrs in the univ. BIOCHEM.—A
Pollard, MSc Lond., PhD Manc., POMOL.—
L C Luckwill, BSc PhD; ORG CHEM.—D
Woodcock, DSc PhD Durh. With the standing of
lectrs. in the univ. BIOCHEM.—G. C. Whiting,
BSc PhD Sheff., H. E. Davenport, BSc Lond.,
PhD Camb., CHEM.—C. Bould, MSc PhD R'dg.,
L. F. Burroughs, BSc R'dg., PhD, D G Hill,
Cotttingham, MSc PhD Lond., H R Mapother,
BA BSc Dub., E. J. Skerrett, PhD, ENTOMOL.—
A. Stringer, BSc Lond., N. G. Morgan, BSc
PhD, T E Cobbold, BSc (Agric) Lond., FRUIT
PRODUCTS.—Margaret E. Kreser, BSc; MICROBIOL.—
F. W. Beech, BSc Birm., PhD, J. G. Carr,
BSc PhD, MYCOL.—R. J. W. Byrde, BSc (Hort)
PhD R'dg.; A. T. K. Corke, BSc PhD Edin.,
CHEM.—C. F. Timberlake, MSc Wales, PhD,
A. H. Williams, MA BSc Oxon.; PHYS CHEM.—
W. D. E. Thomas, BSc PhD Wales; E. Somers,
MSc Leeds, PhD, C. P. Lloyd-Jones, BSc,
C G L. Furmidge, BSc PhD Nott., PLANT
PHYSIOL.—E J Hewitt, BSc Lond., PhD,
D J D Nicholas, BSc Lond., PhD, FRIC,
POMOL.—E W. Hobbs, MBE, BSc, D. L.
Abbot, BSc Lond., R. R. Williams, BSc; STATS.

—G. M. Clarke, MA Oxon.; SOIL BIOL.—R. A.
Webb, BA DPhil Oxon., WILLOWS—K G Stott,
BSc Wales 4 Res Asst., 1 Recog. Teacher.

Domestic Science

GLOUCESTERSHIRE TRAINING COLLEGE, Barrack
Square, Gloucester (tel Gloucester 20234)
For practical course for BSc (DomSc) Principal
& univ. lectr. in DOM SCI.—Nancie E. Bradshaw,
BA Lond. With the standing of teachers in the
univ. Molly Downes, Irmgard B Pick; Mabel
Challinor; B. Vivienne Godfrey, Margaret N
Pincott, Eileen McQueen, BSc Dub (univ tutor
to dom. sci. students)

Theology

The following are members of the univ. staff
for the BA in theol. subjects

BAPTIST COLLEGE, Woodland Rd, Bristol, 8
(tel Bristol 20248) Principal, Rev L. G
Champion, BD Lond., DTh Hedd., BA; Rev
N S Moon, BD MTh Lond., BA, Rev H
Mowley, MA Oxon., BA.

CLIFTON THEOLOGICAL COLLEGE, Stoke House,
Bristol, 9 (tel Bristol 682803) (C of E) Rev.
J A Motyer, MA BD Dub., Rev M R W.
Farier, BA Oxon., F G C Langford, MA
Oxon.

DIDSBURY COLLEGE, Henbury Hill, Bristol¹
(tel Bristol 628990). (Methodist.) Principal,
Rev. F. Greeves, MA Camb., BA Manc., Rev

K Grayston, MA *Oxon & Camb*, Rev R E Davies, MA *Oxon*, BA BD *Camb*, Rev I. Blythun, MA *Camb*, BA *Wales*, Rev. I. H. Marshall, MA BD *Aberd*, BA *Camb*

TYNDALE HALL THEOLOGICAL COLLEGE, Clifton, Bristol (tel Bristol 33325) (C of E) Principal, Rev J Stafford Wright, MA *Camb*, Rev

D H Tongue, MA *Camb*, Rev J W Wenham, MA *Camb*, BD *Lond*, Rev. C Brown, BA *Liv.*, MA *Nott*, BD *Lond*

WESTERN COLLEGE, Cotham, Bristol, 6 (tel. Bristol 36042) (Congregational). Principal, Rev. Basil H Sims, MA BLitt *Oxon*, Rev. W J. Downes, MA BD *Lond*.

GENERAL INFORMATION

Univ. Coll., Bristol, was establd in 1876 and in 1893 the Bristol Med School, which dates from 1833, became incorporated in it. The univ. received its charter in 1909

CONSTITUTION. The court, comprising some 400 leps. of local authorities and organizations, learned institutions, benefactors, staff and grads., meets annually to receive a report from council, pass accounts and a balance sheet, appoint univ officers and amend ordinances. Executive control rests during the yr with council, whose 46 members are nominated by court, the local authorities of the region, the Soc of Merchant Venturers, senate, the non-professorial teaching staff and convocation. Senate, numbering over 60 and consisting of the profs and a no of other members of the teaching staff, controls, under council, the academic affairs of the univ and receives reports from the fac boards. There are 5 facs (*see below*) each having at its head a dean, who holds office for 2 or 3 yrs. The principal academic officer of the univ is the vice-chancellor, whose appt is permanent. The grads of the univ form convocation, which meets annually and may discuss and pronounce an opinion on any matter relating to the univ

INCOME (1959-60) Total income, £1,757,448 (Treasury grants, 70 per cent; other grants and contributions for services rendered, 13 per cent; fees, 11 per cent; grants from local authorities, 2 per cent; other sources, 2 per cent).

FACULTIES AND DEANS (1960-61) *Arts*, Prof W McC Stewart (French), *engin.*, Prof. W M Shepherd (theoret mech), *law*, Prof J A. Coutts (jurisp), *med*, Prof J. M. Yoffey (anat), *sci*, Prof C. F. Powell (phys)

UNIVERSITY PRECINCT. The facs of arts and law are chiefly housed in the main bldg, which was opened in 1925, it includes the library and admin offices and its tower occupies a commanding site close to, but well above, the centre of the city. In the same area are most of the scientific depts, incl the H H Wills phys lab. (opened in 1927 and now extended) and Queen's Bldg (opened in 1958 and housing the depts of maths, geol, civil engin, mech. engin, electr engin, aeronaut engin and theoret mechs), and the sites for new med sch and new chem sch. Canynge Hall, within easy reach, accommodates the depts of pathol., pub health and bacteriol. The vet field station, opened in 1952, is at Langford, Somerset

LIBRARY. 254,360 vols other than pamphlets (including arts 140,585, sci 55,670, med 41,050; engin 12,035; law 4170). Sp collections: British local hist and records; early Engl novels, Engl. philos writers, courtesy books, hist of educn, early Engl dictionaries, cartography, landscape gardening, Maria Meier phys libr., Exley mathl libr., Worsley chem. libr (including early works on chem and alchemy), Wigglesworth ornithol collection, early med books and works on mineral waters and spas

LABORATORIES, ETC. Anat, bacteriol, bot, org chem, phys & inorg chem, engin (civil, mech, electr & aeron), geol, pathol, pharmacol, phys, physiol, vet anat, vet physiol, vet. surg, zool, geol museum Long Ashton res. sta (agric), *see p* 835 Horticulture sci labs. Univ. bot garden at Bracken Hill

TEACHING HOSPITALS. Clin study is undertaken in the United Bristol Hosps (comprising the Bristol Royal H., Univ of Bristol Dental H., Bristol Royal H. for Sick Children, Bristol Eye H and Bristol Maternity H) and partly in the following hosps under the control of the S-W Regional Hosp Bd: Southmead H., Ham Green H., Bristol Mental Hosps, Stoke Park Colony and Winsley Sanatorium

INSTITUTE OF EDUCATION (*see also p* 834) Founded in 1947 to supervise the trg of teachers and generally to foster work in the field of educn. in the region. *Associated institutions*: Univ. Dept of Educn; Coll. of S Matthias, Fishponds, Bristol, W of England Coll. of Art, Bristol; City of Bath Trg. Coll., Domestic Sci Trg. Coll., Bath, City of Bath Academy of Art; St Paul's Trg Coll, Cheltenham, St Mary's Trg. Coll., Cheltenham, Gloucestershire Trg Coll, Gloucester, Diocesan Trg Coll, Salisbury, Redland Trg Coll, Bristol.

A SCHOOL OF MANAGEMENT STUDIES was establd in Aug 1961 to provide residential courses in management studies and to conduct res into problems of bus management and admin. First admissions to sch. will take place in Sept 1962

ADMISSION. *See* Appendix III.

FIRST DEGREES. BA, BA(Econ), BSc, BSc in Engin, LLB—3 yrs, incl at least 2 in the univ, MB ChB—5 yrs after passing 1st exam in phys, chem and biol., incl. at least 3 in the

univ., BDS—4½ yrs after passing 1st exam in phys., chem and biol., incl. at least 3 in the univ.; BVSc—4 yrs. after passing 1st exam in phys., chem and biol., incl. at least 3 in the univ.

All degrees except BSc(DomSc) may be awarded with honours

Courses for BA: *general* (3 subjs. for 3 yrs, 4th subj. for 1st yr) or *special* (Greek, Greek & Engl., Latin, Latin & French, Latin & Spanish, classics, classics & drama, French, French & drama, French & Spanish, German, German & drama, Spanish, Spanish & drama, Engl., hist., hist. & econ., geog., econ., econ. & acctg., econ. & govt., philos., philos. & psychol., philos. & Engl. lit., philos. & French, philos. & econ., philos. & classics, maths., theol., music). Courses for BA (Econ) include econ and a mod lang

Courses for BSc *general* (1 subj. for 3 yrs with 2 subjs. for 2 yrs, or with one subj. for 2 yrs and one for 1 yr, and with course on devel. of sci.) or *special* (maths., phys., chem., biological chem., geol., geog., bot., zool., anat., physiol., psychol., microbiol.). Candidates are not less admitted to *ordinary* BSc curriculum but students may be transferred to it

HIGHER DEGREES All (except BMus and DMus) open to grads of other univs who have been engaged in res. in the univ. for a prescribed period. BMus, 1 yr from BA general or spec music, MA—2 yrs from BA, 3 yrs for non-grad if sp permission given, MSc (in sci or engin)—2 yrs from BSc, 1 yr for hon. grad of Bristol, ChM—2 yrs from MB ChB, MDS—2 yrs from BDS, LLM—2 yrs from LLB. PhD (all fcs except law)—2 yrs from 1st degree (all fcs), open in exceptional cases to non-grads in fcs of sci., med. and engin. DMus—5 yrs from BMus; DLitt, DSc (in sci or engin.), LLD—6 yrs from 1st degree incl. 3 yrs. res. in univ. in case of those not Bristol grads; MD—2 yrs. from MB ChB

The degrees of master and doctor may be awarded as HONORARY DEGREES

The univ. does not award EXTERNAL DEGREES

DIPLOMAS Educn. (for qualified teachers), 1 yr, pub health, 1 yr, soc studies, 1 yr. postgrad, LDS, 4 yrs

CERTIFICATES Educn., 1 yr. postgrad, course of advanced trg for residential staff of children's homes and schs. for deprived, delinquent and handicapped children, 1 yr, appl soc. studies, 1 yr; testamur in bacteriol. & microbiol., 1 yr postgrad. Drama, 1 yr. postgrad

POSTGRADUATE COURSE (not leading to any formal qualif.) in medical physics, 1 yr, open to grads in phys. Fee. £47.

ENGLISH FOR FOREIGN STUDENTS Foreign students whose native lang is not Engl. and who can satisfy the univ. that their knowledge of Engl. is sufficient may be admitted to pt-time courses in Engl. (including a 2-hr weekly course consisting of Engl. phonetics and informal classes in the reading and speaking of Engl.) and in a limited no

of other subjects in fcs of arts and sci. No dipl. is awarded, but a cert. of attendance is given. Fees £10 a session or £4 a term

RESEARCH. Facilities for res. in all depts. The Colston Res. Soc. devotes the proceeds of an annual collection to a symposium and to the promotion of res. in the univ.

FEES. *Inclusive annual fees* (covering tuition, exam., graduation and membership of students' union) BA, BA(Econ), BMus, dipl. in soc studies, £57, cert. in appl soc studies, £62; dipl. in educn, £61, BSc, BSc(DomSc), £67, BSc in maths, £57, MB ChB, BDS, LDS, BVSc, £67, BSc in engin, £67, LLB, £57. Postgrad fees (figs in brackets are for grads of univs other than Bristol): MA, LLM, £22 (£28), MSc, £42, ChM, MDS, £26 (£27), PhD in arts or maths, £37 (£39), in other fcs, £47, DMus, DLitt, DSc, MD, LLD, £26; cert. in educn, £57; testamur in bacteriol. & microbiol., £27, res. in sci not for a degree, £32, DPH, £68

Note. fees are at present under review and may be increased in 1962

ACADEMIC YEAR Oct to July. 3 terms of 10 or 10½ wks each

EXTRA-MURAL STUDIES (see also 'Teaching Staff', above). Organized through univ. dept. of extra-mural studies. Schemes of co-operation with WEA, all educn. authorities in univ. region and Community Council of Gloucestershire. It scheme for Dorset in collab. with Univ. of Southampton, associated with Wills in Urchfont Manor Residential Coll. for adults (tutor seconded to coll. staff). Resident tutors organize univ. activities in each county. 3 resident tutors responsible for work in Bristol. 2 staff tutors with responsibility for promotion of studies in biol. and the phys. scis. 2 staff tutors for services educn.

VACATION COURSES Summer sch., arranged annually by dept. of extra-mural studies in conjunction with WEA, is held in Wills Hall for 2 weeks and normally attracts about 100 students, incl. a no. from abroad. Subjs. include art, econ., biol., psychol. and pol. Residential courses are also arranged in sp. subjs., e.g. archaeological field survey, and for the services

OPEN ENTRANCE AWARDS Each candidate accepted for admission is regarded as a candidate for one of up to 21 open entrance scholps and 12 open entrance exhibitions. These awards are eligible for supplementation by the Ministry of Educn.

POSTGRADUATE AWARDS open to grads of other univs: see p. 808.

APPOINTMENTS BOARD, 21 Berkeley Sq., Bristol, 8 (tel. Bristol 24161). For sec. see 'Admin and Other Staff', above. The bd. provides information and advice to undergrads, and grads, and offers assistance in finding suitable employment

For FORMER STUDENTS there is an assocn of alumni. Sec.—E G Beynon, BSc, 31 Bromley Drive, Downend, Bristol

RESIDENCE (For wardens, see 'Admin and Other Staff', above) For women (fees £165 p a) • Clifton Hill House, Clifton Hill, Bristol, 8 (tel Bristol 36274), 139 students, Manor Hall, Clifton, Bristol, 8 (tel Bristol 36604), 202 students For men (fees £175 p a) Wills Hall, Stoke Bishop, Bristol, 9 (tel Bristol 68-1544), 186 students, Burwalls, Leigh Woods, Bristol, 8 (tel • Bristol 36089), 66 students Churchill Hall, Stoke Bishop, Bristol, 9 (tel Bristol 68-4219), 317 students Accommod officers provide addresses of approved lodgings. Common rooms provided for Haldane and Fry Socys., for men and women not living in Halls

UNIVERSITY NAVAL CONTINGENT C O Capt G L Hunt Embodied in Severn Div R N V R with H Q aboard H M S *Flying Fox*. Sea trg carried out in ships of Royal Navy in long vac and in coastal mine-sweeper attached as tender to H M S *Flying Fox* during season

OFFICERS TRAINING CORPS. O C. Col A. M Graves. Infantry, Royal Signals, and Women's Royal Army Corps sub-units Basic trg for cert 'B' is followed by specialist trg in signal unit or infantry unit.

UNIVERSITY AIR SQUADRON. O. C.: Squadron Leader J D Evans Flying trg provided for students preparing for commissioned service in R A F. During term, flying trg given at R A F. Station, Filton, and continuous trg takes place during 2 wks of the long vac.

STUDENTS' HEALTH SERVICE Students admitted to the univ are required to have an annual chest X-ray exam. and to undergo a med exam in each of the first 3 undergrad. yrs. The exams are conducted by med. officers appointed by the univ

and are free of cost to students. The med. officers are also available for free consultation by students. The univ. has provided Woodland House, West Park, Bristol, 8 (tel • Bristol 37716), near the union and main univ bldgs, for use as a health centre, with facilities for physical trg., squash and fives

THE UNIVERSITY UNION is the student body of the univ It has facilities for its various clubs and activities at the Victoria Rooms, Bristol, 8 (tel Bristol 34383, permanent sec, 34460)

STUDENT ATHLETIC FACILITIES. 38½ acres of playing fields at Coombe Dingle, Bristol, 9 Tennis and squash courts at several halls of residence. 2 gymnasia in union. Rowing at Saltford, 7 miles from Bristol Clubs include: archery, assocn. football, badminton, basket ball, boxing, cricket, cross country running, fencing, fives, golf, hockey, judo, lacrosse, netball, rifle, rugby football, sailing, ski, squash, swimming, table tennis, tennis 2 lectrs in phys educn (see p 830) organize games and athletics

PUBLICATIONS *Calendar* (Oct), 10s. 6d. post free, *General Prospectus* incl. regns for matric, fac. *Prospectuses*, annual *Report of council to court*, prospectuses of halls of residence, dept of drama, educn, music; *Fellowships, Scholarships and Prizes*, *Gazette* (Oct, Jan & April, 3 issues, 3s 6d post free); students' mag, *None-such*, 1s 6d, *The Life of a University* by Basil Cottle & J W Sherborne (Arrowsmith, 1959), 12s 6d net, 13s 2d post free., *The Jubilee Research Publn* (an account of res. work conducted in the univ, 1954-59), 8s 6d net, 9s. 2d post free

PUBLICATIONS COMMITTEE. Establd. in 1953 under standing orders of council to arrange for publicn of works under auspices of the univ.

THE YEAR 1960

PRINCIPAL BENEFACTIONS Foundation for management educn, £14,500 p a for 7 yrs for the sch. of management studies, Joseph Rowntree Memorial trust, £2000 p a for 5 yrs for advanced trg of residential staff of children's homes and schs

(Total value of all benefactions received. £111,500)

MAJOR BUILDING DEVELOPMENTS Bldgs completed Churchill Hall, Long Ashton Res Station refectory and common room

NEW DEPARTMENTS AND CHAIRS. Chair of drama (G W G Wickham), chair of Spanish (J C J Metford), chair of animal husb (T K. Ewer)

RETIREMENTS Dr F S Wallis (sedimentary petrol.), Rev Dr H F Lovell Cocks (religious

knowledge), Dr Greta Hartley (trg course for health visitors), F R Hogbin (dent surg)

RESIGNATIONS I W Cameron (dent surg), D L Dinely (geol), H B Griffiths (maths); R Henstock (maths); M Holmes (civil engin), D G Lyon (dent surg), J Moody (drama), T F Oppé (child health), G A B Short (extra-mural)

DEATHS Emer Prof W W Jervis (prof of geog, 1933-57), Emer Prof W E Garner (prof of inorg & phys chem., 1927-54), Dr O C M. Davis (formerly reader in med chem.); Alice Crang (lectr at Long Ashton Res Station); Dr S H. Bennett (lectr in entomol, Long Ashton Res Station), Dr H H. Potter (lectr in phys.)

HONORARY DEGREES. DLitt—J Garrett. DSc —Prof G. P. S. Oochalini MA—B R Davis, H Schubart, Miss E. W Jones MSc (in engin)—G W Grossmith

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	2348	114
Women	1026	38
Total	3374	152

Distribution by Faculties *Agric & hort*, 7, *arts*, 1321, *dent*, 133, *engin*, 371, *law*, 149; *med*, 320, *sci*, 953, *vet sci*, 120 Total 3374

Included in the figures above are —

Postgraduate students, 473

New admissions, 1171 (967 undergrad)

Students from other countries, 212 (Countries from which largest numbers came Nigeria, 24, U.S.A., 21, W Indies Fed, 16)

DEGREES AWARDED (1959-60). *Arts* BA, 287, BA(Econ), 110. *Dent* BDS, 16 *Engin* BSc, 96 *Law* LLB, 36. *Med*: MB ChB, 55 *Sci* BSc, 246 *Vet sci* BVSc, 21 Total number of first degrees awarded, 867

DIPLOMAS AWARDED (1959-60) DipEd, 2, DipHonSci, 1, LDS, 2; DPH, 8, soc studies, 16

CERTIFICATES AWARDED (1959-60) Appl. soc studies, 8, educn, 189

UNIVERSITY OF CAMBRIDGE*

Founded in the 13th century

Postal Address · Cambridge, England

Telephone (Registry) . Cambridge 58933 (For telephone numbers of university departments, see p. 875)

CHANCELLOR—Marshal of the Royal Air Force the Rt. Hon the LORD TEDDER, GCB, Hon. LLD, Hon. Fellow of Magdalene College

VICE-CHANCELLOR—SIR W IVOR JENNINGS, KBE, QC, LLD *Lond* , Hon LLD *Brist* , *S'ton* , *Ceyl* , *Leeds & Belf* , LittD, FBA, Master of Trinity Hall

HIGH STEWARD—The Rt. Hon R A. BUTLER, [Pemb], CH, Hon DCL *Oxon* , Hon LLD *Nott* , *Brist* , *Sheff* , *St And & Camb* , MA

DEPUTY HIGH STEWARD—The Rt. Hon the LORD MORTON OF HENRYTON, [Joh], MC, Hon. LLD *Glas* , *St And & Camb* , MA

COMMISSARY—The Rt Hon the LORD McNAIR, [Cai], CBE, Hon LLD *Glas* , *Liv* , *Bnm. & Salonska* , Hon DCL *Oxon* , Hon. DLitt *R'dg* , LLD, FBA

ORATOR—L P. WILKINSON, [King's], MA, FRSL

REGISTRARY—R. M. RATTENBURY, [Trin], MA

SECRETARY GENERAL OF THE FACULTIES—W J SARTAIN, [Selw], MA

LIBRARIAN—H R CRESWICK, [Jes], MA *Oxon & Camb* .

TREASURER—.

DIRECTOR OF THE FITZWILLIAM MUSEUM AND MARLAY CURATOR—C WINTER, [Trin.], MA

TEACHING STAFF

The abbreviation in square brackets denotes the college of which the teacher is a present member. The names of those teachers who are also heads or fellows of colls are repeated in the coll entries on pp 855-856 The names of colls are indicated by abbreviations as follows

Cai	Gonville and Caius College	Fitzw	Fitzwilliam House	Pemb	Pembroke College
Cath	St Catharine's College	Girton	Girton College	Pet	Peterhouse
Chr	Christ's College	Jes	Jesus College	Qu	Queens' College
Chur	Churchill College	Joh	St John's College	Selw	Selwyn College
Cla	Clare College	King's	King's College	Sid	Sidney Sussex College
Corp	Corpus Christi College	Magd	Magdalene College	Tr H	Trinity Hall
Down	Downing College	New H	New Hall	Trin	Trinity College
Emm.	Emmanuel College	Newn	Newnham College		

Aerial Photography		Bull, M M, [Qu], MD	Lectr
St Joseph, J K S, [Selw], MA PhD, FSA	Curator	Ford, E. H. R, [Selw], MD	Lectr
		Green, H L H. H, [Sid], MD	Lectr
		Hughes, A F W, ScD	Lectr
		Monro, P A. G., [Joh], MD	Lectr
Aeronautics , see Engineering		Pratt, C W McE, [Tr H.], MB ChB <i>Manc.</i> , MA	Lectr.
Agriculture , see below		Shute, C C D, [Chr], MD	Lectr.
Altaic Languages , see Oriental Studies		Sims, R T, [Joh], BSc MB BS <i>Lond</i> , MA	Lectr
Anatomy		Towers, B., [Jes], MB ChB <i>Liv</i> , MA	Lectr
Boyd, J D, [Cla], MD <i>Belf</i> , MA, FLS	Prof Reader	Woollam, D H. M., [Emm], MD	Lectr
Millen, J W. [Joh]. MD <i>Belf</i> . MA		Wright, G. H., [Cla], MD	Lectr

* Member of the Association of Universities of the British Commonwealth

Lewis, P. R., [Corp.], DPhil *Oxon.*, MA
Oxon. & Camb Asst. Dir. of Research
 Horn, G., [King's], BSc MB ChB *Birm.*,
 MA Demr.
 Fozzard, J. A. F., [Cla.], MA Tech. Officer

Anglo-Saxon, etc.

Whitelock, Dorothy, [Newn.] MA *Oxon.*,
 LittD, FBA, FSA, FRHistS
 Ellington & Bosworth Prof
 Bromwich, Mrs. Rachel S., [Newn.] MA Lectr
 Clemoes, P. A. M., [King's], BA *Lond.*,
 PhD Lectr.
 Hunter Blair, P., [Emm.] MA Lectr.
 Hughes, Kathleen W., [Newn.] PhD *Lond.*,
 MA *Lond. & Camb.*
 (Early Hist. & Culture of British Isles) Lectr
 Page, R. I., MA *Sheff.*, PhD *Nott* Lectr

Animal Health, Animal Pathology, Animal Surgery, see Veterinary Studies

Anthropology

Fortes, M., [King's], PhD *Lond.*, MA *Oxon. & Camb.*
 (Soc. A.) William Wyse Prof
 Leach, E. R., [King's], MA (Soc. A.) Reader
 Richards, Audrey I., [Newn.] CBE,
 PhD *Lond.*, MA *Lond. & Camb.*
 Smuts Reader
 Fortune, R. F., [Emm.] MSc *N. Z.*, MA Lectr
 Goody, J. R., [Joh.] MA PhD Lectr
 Jones, G. I., [Jes.], MA *Oxon. & Camb.* Lectr
 Trevor, J. C., [Emm.], BSc *Oxon.*, MA PhD Lectr
 Brothwell, D. R., [Chr.] BSc *Lond.*, MA
 (Phys. A.) Demr.
 Southwold, M., [Joh.] MA PhD
 (Soc. A.) Asst. Lectr

Arabic, see Oriental Studies

Aramaic, see Oriental Studies

Archæology, see also Classical Archæol., Classics, Oriental Studies

Clark, J. G. D., [Pet.] ScD, FBA Disney Prof.
 Daniel, G. E., [Joh.] MA PhD Lectr.
 McBainey, C. B. M., [King's], MA PhD,
 FSA Lectr.
 Coles, J. M., [Petzw.] PhD *Edin.*, MA
 Asst. Lectr.
 Hope-Taylor, B. K., [Joh.] Asst. Lectr.
 Higgs, E. S., [Magd.] BComm *Lond.*,
 MA Asst. in Res.

Architecture

Martin, Sir J. Leslie, [Jes.] PhD *Manc.*,
 MA *Manc. & Camb.*, FRIBA Prof
 Bucknell, P., [Jes.] MA Lectr.
 Dyson, W. P., [Trin.] MA Lectr.
 Little, M. E., [Tr. H.] BA *Manc.*, MA Lectr.
 Roberts, D. W., [Magd.] MA Lectr.
 Wilson, C. A. St. J., [Chur.] MA Lectr.

Martin, B., [Sid.] MA Asst. Lectr.
 Rowe, C. F., [Qu.] BACh *Liv.*,
 MA *Lond. & Camb.* Asst. Lectr.

Art

Gombrich, E. H. J., [Jes.] MA *Oxon.*,
 PhD *Vienna*, FBA Slade Prof. of Fine Art

Assyriology, see Oriental Studies

Astrophysics

Redman, R. O., [Joh.] MA PhD, FRAS
 Prof. of Dir. of Observatories
 Lunfoot, E. H., [Joh.] DSc *Oxon.*, ScD
 Asst. Dir. of Observatories, John Couch
 Adams Astronomer
 von Klüber, H., [Joh.], DrPhil *Berl.*, MA
 Asst. Dir., Solar Phys. Observatory

Senior Assistant Observers

Argue, A. N., [Cal.] BA *Dub.*, MA
 Beer, A., [Cal.], DrPhil *Berl.*, MA
 Dewhurst, D. W., [Chr.] MA PhD
 Willstrop, R. V., [Emm.] MA PhD

Junior Assistant Observers

Deeming, T. J., [Joh.] BSc *Birm.*
 Griffin, R. F., [Joh.], BA PhD

Tech. Officer

Beggs, D. W., [Trin.] MA

Biochemistry

Young, F. G., [Tr. H.] PhD DSc *Lond.*, MA,
 FRS, FRIC Sir W. Dunn Prof.
 Gale, E. F., [Joh.] ScD, FRS
 (Chem. Microbiol.) Prof.
 Bailey, K., [Trin.] ScD, FRS Reader
 Needham, N. J. T. M., [Cal.], ScD, FRS
 Sir W. Dunn Reader
 Dixon, M., [King's], ScD, FRS
 (Enzyme B.) Reader
 Dixon, H. B. F., [King's], MA PhD Lectr.
 Korner, A., [Cla.], MA PhD Lectr.
 McQuillen, K., [Chur.] MA PhD Lectr.
 Northcote, D. H., [Joh.], PhD *Lond.*, MA Lectr.
 Randle, P. J., [Tr. H.] MA PhD MB BChur Lectr.
 Smith, G. H., [Qu.] PhD *Lond.*, MA Lectr.
 Webb, E. C., [Cla.] MA PhD Lectr.
 Kerridge, D., [Cal.] MA PhD Asst. Dir. of Res.
 Bendall, D. S., [King's], MA PhD Demr.
 Chappell, J. B., [Cal.] BA PhD Demr.
 Newton, Mrs. Alison A., [Newn.] MA
 PhD Demr.
 Tubbs, P. K., [Cal.] MA PhD Demr.
 Davison, S. H. H., BSc *Lond.*, MA Tech. Officer

Biology

Wigglesworth, V. B., [Cal.], CBE, MD, FRS
 Quick Prof.

Biophysics, see Physiol.

Botany, see also Agriculture, below

- Godwin, H., [Cla], ScD, FRS, FGS Prof.
 Barker, J., [Trin], MA PhD, FRS
 (Plant Physiol.) Reader
 Corner, E. J. H., [Sid], MA, FRS
 (Plant Taxon.) Reader
 Garrett, S. D., [Magd], ScD (Mycol.) Reader
 Gilmour, J. S. L., [Cla], MA, FLS
 Dir. of Botanic Garden
 Coombe, D. E., [Chr], MA PhD Lectr.
 Evans, G. C., [Joh], MA PhD Lectr.
 Hudson, H. J., [Down], PhD *Sheff*, MA Lectr.
 Pigott, C. D., [Emm], MA PhD Lectr.
 Rishbeth, J., [Chr], ScD Lectr.
 Sporne, K. R., [Down], MA PhD Lectr.
 West, R. G., [Cla], MA PhD Lectr.
 Whitehouse, H. L. K., [Qu], MA PhD Lectr.
 Briggs, D., BSc *Durh* Demr.
 Grubb, P. J., [Magd], MA Demr.
 Pitman, M. G., [Joh], MA PhD Demr.
 Walters, S. M., [Joh], MA PhD

Curator of Herbarium

George, E. A., [Down], MA
 Curator of Culture Collection of Algae
 & Protozoa

Canny, M. J. P., [Joh], MA PhD

- Yeo, P. F., [Qu], MA (Taxon) Sr Asst in Res
 Churchill, D. M., [Cla], BSc *W Aust.*,
 MA Sr Asst in Quaternary Res
 Willis, E. H., [Cla], MA PhD
 Sr Asst in Quaternary Res
 Younger, R. W., [Pet], MA
 Tech. Officer in Botanic Garden
 Dickson, J. H., [Cla], BSc *Glas*
 Asst in Quaternary Res

Chemical Engineering, see Engineering**Chemistry**, see also Biochem.; Chem.,
Physical, and Chem., Theoret

- Todd, Sir Alexander R., [Chr], DSc Hon
 LL.D. *Glas*, Hon. DrRerNat *Kiel*, Hon
 DSc *Lond*, *Exe*, *Leic.* & *Wales*, DPhil
Oxon, DrPhil *Fran*, MA, FRS, FRIC
 (Org. C.) Prof.
 Emeléus, H. J., [Sid], CBE, DSc *Lond*,
 MA, FRS (Inorg. C.) Prof.
 Mann, F. G., [Trin], DSc *Lond.*, ScD, FRS,
 FRIC (Org. C.) Reader
 Brown, D. M., [King's], BSc *Glas*, PhD Lectr.
 Clark, V. M., [Cai], MA PhD Lectr.
 Harley-Mason, J., [Corp], ScD Lectr.
 Kipping, F. B., [Joh], MA PhD Lectr.
 Maddock, A. G., [Cath.], PhD *Lond*, ScD Lectr.
 Matland, P., [Jes], BSc *Glas*, PhD Lectr.
 Saunders, B. C., [Magd.], ScD Lectr.
 Sharpe, A. G., [Jes], MA PhD Lectr.
 Sykes, P., [Chr], BSc *Manc.*, PhD Lectr.
 Sheppard, N., [Trin], MA PhD
 (Spectroscopy) Asst. Dir. of Res
 Blackburn, G. M., [Joh.], PhD *Nott*, MA Demr.
 Cameron, D. W., [Chr.], MSc *Q'ld.*,
 PhD *Manc* Demr.

- Ebsworth, E. A. V., [Chr], MA PhD Demr.
 Green, M. L. H., [Pemb.], PhD *Lond*,
 MA Demr.
 Katritzky, A. R., [Chur.], BSc MA
 DPhil *Oxon*, PhD Demr.
 Prince, R. H., [Joh.], PhD *Lond*, MA Demr.
 Reese, C. B., [Cla.], MA PhD Demr.
 Waddington, T. C., [Cai.], MA PhD Demr.
 Bason, R. H., [Joh.], MA Tech. Officer

Chemistry, Physical

- Norrish, R. G. W., [Emm.], ScD, FRS, FRIC
 Prof.
 Sugden, T. M., [Qu], MA PhD Reader
 Agar, J. N., [Sid], MA PhD Lectr.
 Ashmore, P. G., [Chur.], MA PhD Lectr.
 Moelwyn-Hughes, E. A., [Corp.], ScD Lectr.
 Purnell, J. H., [Tr. H.], PhD *Wales & Camb.*,
 MA Lectr.
 Thrush, B. A., [Emm.], MA PhD
 Asst. Dir. of Res.
 Callar, A. B., [Emm.], PhD *Birm.* &
Camb, MA Demr.
 Jenkins, D. R., [Chr.], MA PhD Demr.
 Padley, P. J., [Jes.], BSc *Lond*, PhD Demr.
 Guttridge, J., BSc *S'ton* Tech. Officer
 Husam, D., [Pemb.], BSc *Manc* Asst. in Res

Chemistry, Theoretical

- Longuet-Higgins, H. C., [Corp.], DPhil *Oxon*,
 MA, FRS J. H. Plummer Prof.
 Boys, S. F., [Trin.], BSc *Lond*, PhD Lectr.
 Orgel, L. E., [Pet.], DPhil *Oxon*, MA
 Asst. Dir. of Res.
 Carrington, A., [Down], BSc PhD *S'ton*,
 MA Asst. in Res

Chinese, see Oriental Studies**Classical Archaeology**

- Toynbee, Jocelyn M. C., [Newn.],
 DPhil *Oxon*, MA, FSA, FBA Laurence Prof.
 Cook, R. M., [Cla.], MA Laurence Reader

Classics, see also Hist., Anc

- Page, D. L., [Jes.], MA *Oxon* & *Camb*,
 LittD, FBA (Greek) Regius Prof.
 Brink, C. O., [Cai.], DrPhil *Berl*,
 MA *Oxon* & *Camb* (Latin) Kennedy Prof.
 Griffith, G. T., [Cai.], MA, FBA
 (Anc. Hist.) Laurence Reader
 Kirk, G. S., [Tr. H.], DSc, MA, FBA
 (Greek) Reader
 Camps, W. A., [Pemb.], MA Lectr.
 Chadwick, J., [Down], MA Lectr.
 Coleman, R. G. G., [Emm.], MA Lectr.
 Crook, J. A., [Joh.], MA Lectr.
 Deas, H. T., [Cai.], MA Lectr.
 Duke, Alison, [Grtun.], MA Lectr.
 Finley, M. I., [Jes.], PhD *Cal*, MA Lectr.
 Howland, R. L., [Joh.], MA Lectr.
 Kenney, E. J., [Pet.], MA Lectr.
 Ker, A., [Trin.], MA *Oxon* & *Camb* Lectr.

Lacey, W K., [Cath.], MA Lectr
 Lee, A. G., [Joh.], MA Lectr
 Lucas, D W., [King's], MA Lectr
 Morrison, J S., [Chur.], MA Lectr
 Papastavrou, S. J., [Pemb.], BA Oxon.,
 MA Glas & Camb Lectr
 (Mod Gk) Lewis Gibson Lectr
 Peck, A. L., [Chr.], MA PhD Lectr
 Plummer, W H., [Corp.], MA DPhil Oxon.,
 PhD Lectr
 Raven, J E., [King's], MA Lectr
 Reynolds, Joyce M., [Newn.],
 MA Oxon & Camb Lectr
 Sandbach, F. H., [Trin.], MA
 Brereton Reader, Lectr
 Stubbings, F H., [Emm.], MA PhD, FSA Lectr
 Wilkinson, L. P., [King's], MA, FRSL Lectr
 Woodhead, A. G., [Corp.], MA Lectr
 Bambridge, J. R., [Joh.], MA Asst Lectr
 Willcock, M. M., [Sid.], MA Asst Lectr

Colloid Science

Roughton, F J W., [Trin.], MA PhD, FRS
 J H Plummer Prof Lectr
 Johnson, P., [Trin.], ScD Lectr
 Haydon, D. A., PhD Lond, MA
 Asst. Dir of Res
 Ottewill, R. H., [Fitzw.], PhD Lond & Camb,
 MA Asst. Dir of Res.
 Tech Officer
 Chipperfield, J. R., [Cath.], BA Asst in Res
 Kernohan, J. C., [Pemb.], MA PhD
 Asst. in Res.

Criminology

Radzinowicz, L., [Trin.], LL.D.
 Wolfson Prof., Dir. Inst. of Criminol.
 McClintock, F. H., [Trin.], BSc Lond, MA
 Asst. Dir of Res
 Martin, J. P., [King's], PhD Lond, MA
 Asst. Dir of Res
 West, D. J., [Trin.], MD Liv., MA
 Asst. Dir. of Res.
 King, Joan F. S., MBE, BA Lond
 Sr. Asst in Res

Czech, see Slavonic Studies

Danish

Fenger, H., PhD Aarhus Lectr
 Divinity, see also Oriental Studies
 Ratcliff, Rev E. C., [Joh.], MA Oxon &
 Camb Regius Prof.
 Moule, Rev C. F. D., [Cla.], MA
 Lady Margaret's Prof
 MacKinnon, D. M., [Corp.], Hon DD
 MA Oxon & Camb
 Norris-Hulse Prof
 Lampe, G. W. H., [Cai.], MC, Hon DD
 Ely Prof.
 Bezzant, Rev. J. S., [Joh.], MA Oxon,
 BD Oxon. & Camb Lectr
 Emerton, Rev J. A., [Corp.], MA Oxon &
 Camb, BD Lectr

Freund, W. H. C., [Cai.], DPhil Oxon.,
 MA Oxon & Camb, FSA Lectr
 Hall, Rev. B., [Fitzw.], MA Lectr
 Hart, Rev H. St. J., [Qu.], BD Lectr.
 Montefiore, Rev H. W., [Cai.], MA Oxon &
 Camb Lectr
 Root, Rev H. E., [Emm.], BA Oxon., MA
 Sanders, Rev J. N., [Pet.], MA Lectr.
 Schofield, Rev J. N., [Chr.], MA Lectr.
 Stevenson, J., [Down.], AM Prim, MA
 Styler, Rev G. M., [Corp.], MA Lectr.
 Vidler, Rev A. R., [King's], DD Edin.,
 LittD BD Lectr
 Wiles, Rev M. F., [Cla.], MA Lectr
 Woods, Rev Canon G. F., [Down.], BD Lectr
 Lindars, Rev F. C., [Joh.], MA Asst Lectr
 Sweet, Rev J. P. M., [Selw.], MA Oxon &
 Camb Asst Lectr
 Williams, Rev H. A., [Trin.], MA Asst Lectr

Dutch

King, P. K., [King's], MA Lond. & Camb. Lectr

Economic History, see Hist

Economics and Politics

Meade, J. E., [Chr.], CB, MA Oxon. & Camb.,
 FBA (Pol. Econ.) Prof.
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 FBA (Econ.) Prof
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 (Finance & Accounting) P. D. Leake Prof
 Champenowne, D. G., [Trin.], MA Oxon
 & Camb. (Econ.) Reader
 Dobb, M. H., [Trin.], MA (Econ.) Reader
 Kaldor, N., [King's], BSc Lond, MA
 (Econ.) Reader
 Robinson, Mrs. Joan V., [Gurton], MA
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 Annan, N. G., [King's], OBE, MA Lectr
 Berrill, K. E., [Cath.], BSc Lond, MA Lectr
 Cohen, Ruth L., [Newn.], MA Lectr.
 Farrell, M. J., [Cai.], MA Oxon & Camb. Lectr
 Fisher, M. R., [Down.], MA NZ, PhD Lectr
 Goodwin, R. M., [Pet.], PhD Harv., BA
 BLitt Oxon., MA Harv. & Camb
 Girdlers' Lectr
 Hagenbuch, W., [Qu.], BA Manc., MA Lectr.
 Hahn, F. H., [Chur.], BSc(Econ) PhD Lond,
 MA Lectr
 Henderson, R. F., [Corp.], MA PhD Lectr
 Holland, Mrs. Marjorie, [Gurton], PhD Col.,
 MA Lectr.
 Liesner, H. H., [Emm.], BA Brist., MA Lectr.
 Lockwood, D., [Joh.], BSc(Econ) PhD Lond,
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 Macpherson, W. J., [Cai.], MA Aberd.,
 PhD Lectr.
 Marris, R. L., [King's], MA Lectr.
 Matthews, R. C. O., [Joh.], MA Oxon. &
 Camb. Lectr.
 Prest, A. R., [Chr.], MA PhD Lectr
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Silberston, Z. A., [Joh.], MA Lectr.
 Thistlethwaite, F., [Joh.], MA Lectr.
 Young, M. D., [Chur.], PhD Lond, MA Lectr.
 Saffa, P., [Trin.], MA

(Econ.) Asst. Dir. of Res.

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 Pasinetti, L. L., [King's], DEcon Milan Asst. Lectr.
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Economics, Applied

Reddaway, W. B., [Cla.], MA Reader, Dir.
 Utting, J. E. G., [Tr. H.], MA Asst. Dir.
 Brown, J. A. C., [Emm.], MA Sr. Res. Officer
 Deane, Phyllis M., [Newn.], MA Glas & Camb Sr. Res. Officer
 Cole, Miss. Dorothy E., [Girton], MA Res. Officer
 Cook, Pauline L., [Newn.], MA PhD Res. Officer
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 Feinstein, C. H., [Fitzw.], BCom Rand, PhD Res. Officer
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 Revell, J. R. S., [Selw.], BSc Lond, MA Res. Officer
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 7 Jr. Res. Officers

Economics, Farm, see Agriculture, below

Education

Lloyd, W. A., [Trin.], MA Bnm., PhD Prof.
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 Hunt, A. G., [Pet.], MA Sr. Deptl. Lectr.
 Kellaway, W. G., BSc Lond, MA Sr. Deptl. Lectr.
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 Lanfoot, Mrs. Joyce J., [Girton], MA Deptl. Lectr.
 Raitt, J. G., [Sid.], MA Deptl. Lectr.
 Roach, J. P. C., [Corp.], MA PhD Deptl. Lectr.
 Tulaszewicz, W. F., BA Wales, MA Deptl. Lectr.

Egyptology, see Oriental Studies

Engineering, see below

English, see also Anglo-Saxon

Wiley, B., [Pemb.], Hon. LittD Manc., MA, FBA, FRSL
 (Engl. Lit.) King Edward VII Prof.
 Lewis, C. S., [Magd.], Hon. DD St. And., Hon. DSc L. Laval, Hon. LittD Manc., MA Oxon & Camb, FBA, FRSL
 (Mediæv. & Renaissance Engl.) Prof.
 Leavis, F. R., [Down.], BA PhD Reader
 Lucas, F. L., [King's], OBE, MA Reader
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 Bradbrook, Muriel C., [Girton], LittD Lectr.
 Blomwich, J. I., [Joh.], MA Lectr.
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 Davies, H. S., [Joh.], MA Lectr.
 Henn, T. R., [Cath.], CBE, MA (Poetry & Drama) Lectr.
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 Holloway, J., [Qu.], DLitt Aberd., DPhil Oxon., MA Oxon & Camb, FRSL (on leave) Lectr.
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 Williams, R. H., [Jes.], MA Lectr.
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Enzyme Biochemistry, see Biochem.

Estate Management, see Agriculture, below

French

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 Topsfield, L. T., [Cath.], MA PhD
 (also Provençal) Lectr.
 Wallas, May G., [Newn.], PhD *Lond*,
 MA *Lond* & *Camb* Lectr.
 Coleman, Mrs Dorothy, [New H.], MA
 Asst Lectr.
 Laurie, I. S., [Cla.], MA Asst Lectr.
 2 Lectors

Genetics

Thoday, J. M., [Emm.], BSc *Wales*, PhD
 Arthur Balfour Prof
 Owen, A. R. G., [Trin.], MA PhD Lectr.
 Pateman, J. A., [Chur.], PhD *Lond*, MA Lectr.
 Bodmer, W. F., [Cla.], MA PhD Demr.
 Parsons, P. A., [Joh.], BAgSc *Adel*, PhD Demr.
 Wallace, Mrs Margaret E., [Girton], MA
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 Gibson, J. B. Asst in Res.

Geodesy and Geophysics

Browne, B. C., [Trin.], MA
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 Jackson, J. E., [Joh.], MA (Geod.) Lectr.
 Hill, M. N., [Kmg's], MA PhD Asst Dir of Res.
 Belshé, J. C., [Chr.], MS *Wis*, MA
 Sr. Asst in Res.

Geography

Steers, J. A., [Cath.], MA Prof
 Caesar, A. A. L., [Cath.], MA Lectr.
 Farmer, B. H., [Joh.], MA Lectr.
 Grove, A. T., [Cath.], MA Lectr.
 Mitchell, Jean B., [Newn.], MA Lectr.
 Smith, C. T., [Joh.], MA Lectr.
 Sparks, B. W., [Jes.], BA *Lond*, MA Lectr.
 Steers, Mrs Harriet G., [Girton], MA Lectr.
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 Board, C., [Trin.], BA *Lond*, MA Demr.
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 Robin, G. de Q., [Cai.], MSc *Mab*,
 PhD *Birm*, MA Dir, Scott Polar Res Inst
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 Asst. Dir. of Polar Res.
 Evans, S., [Joh.], PhD *Manc*, MA
 St Asst in Polar Res.

Geology, see also Mineral and Petrol

Bulman, O. M. B., [Sid.], PhD *Lond*, ScD,
 FRS, FGS Woodwardian Prof.
 Black, M., [Trin.], MA Lectr.
 Black, W. W., [Cla.], PhD *Leeds*, MA Lectr.
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 Hazland, W. B., [Cai.], MA Lectr.

Hey, R. W., [Chur.], MA PhD Lectr.
 Hughes, N. F., [Qu.], MA Lectr.
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Geophysics, see Geodesy**German**

Forster, L. W., [Selw.], DPhil *Basle*, MA
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 Knight, A. H. J., [Trin.], MA Reader
 Gray, R. D., [Emm.], MA PhD Lectr.
 Green, D. H., [Trin.], MA Lectr.
 Jones, T. D., [Jes.], MA Lectr.
 Stern, J. P., [Joh.], MA PhD Lectr.
 Stopp, F. J., [Cai.], MBE, PhD *Lond*, MA Lectr.
 Tsvetlyan, C. H., [Kmg's], MA Lectr.
 Wisbey, R. A., [Down.], DrPhil *Fran*;
 MA Lectr.
 Johnson, L. P., [Pemb.], BA *Durh.*,
 PhD *Kiel*, MA Asst Lectr.
 Roubiczek, P. A., [Cla.], Hon MA Asst Lectr.
 1 Lectr.

Hebrew, see Oriental Studies**History, see also Classics and Oriental Studies**

Knowles, Rev M. C., [Pet.], Hon D Litt
Oxon & *Brist*, LittD, FBA, FSA
 (Mod H.) Regius Prof
 Chadwick, Rev W. O., [Selw.], DD
 (Eccles. H.) Dixie Prof
 Jones, A. H. M., [Jes.], MA *Oxon* & *Camb*,
 FBA, FSA (Anc. H.) Prof
 Rich, E. E., [Cath.], MA
 (Imperial & Naval H.) Vere Harmsworth
 Prof
 Postan, M. M., [Pet.], MSc *Lond*, MA,
 FBA (Econ. H.) Prof
 Butterfield, H., [Pet.], Hon D Litt *Belf*,
 Hon LLD *Aberd*, Hon D Litt *NUI*,
 Hon LittD *Hav* & *Col*, MA
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 Cheney, C. R., [Corp.], MA *Oxon* & *Camb*,
 FBA (Mediev. H.) Prof
 Mansergh, P. N. S., [Joh.], OBE, Litt
 MA DPhil *Oxon*, PhD
 (H. of Brit Commonwealth) Smuts Prof.
 Bishop, T. A. M., [Joh.], MA
 (Paleog. & Diplomatic) Reader
 Grierson, P., [Cai.], MA, FSA, FBA
 (Mediev. Numismatics) Reader
 Kitson Clark, G. S. R., [Trin.], Hon D Litt
Durh, LittD (Constitutional H.) Reader
 Ullmann, W., [Trin.], JuD *Vienna* &
Imbruck, LittD
 (Mediev. Eccles. Instrns.) Reader
 Behrens, Catharine B. A., [Newn.], MA *Oxon*
 & *Camb* Lectr.

- Bennett, R. F., [Magd.], MA Lectr
 Brock, W. R., [Selw.], MA PhD
 (American H) Lectr.
 Bury, J. P. T., [Corp.], MA Lectr.
 Crawley, C. W., [Tr. H.], MA Lectr.
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 Forbes, D., [Cla.], MA Lectr.
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 (Colonial Studies) Lectr.
 Hibbert, A. B., [King's], MA Lectr.
 Hunsley, F. H., [Joh.], MA Lectr.
 Hoskin, M. A., [Pet.], MA Lond, PhD
 (H. of Sci.) Lectr.
 Joslin, D. M., [Pemb.], MA Lectr.
 Kenyon, J. P., [Chr.], BA Sheff., PhD Lectr.
 Laslett, T. P. R., [Trin.], MA Lectr.
 McDonald, A. H., [Cla.], LLD Glas., MA PhD
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 Mack Smith, D., [Pet.], MA Lectr.
 Mathias, P., [Qu.], MA Lectr.
 Miller, E., [Joh.], MA Lectr.
 Morris, G. C., [King's], MA Lectr.
 Plumb, J. H., [Chr.], LittD Lectr.
 Purcell, V. W. W. S., [Trin.], LittD Lectr.
 Robinson, R. E., [Joh.], MA PhD Lectr.
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 Thomson, D., [Sid.], MA PhD Lectr.
 Vaughan, R., [Corp.], MA PhD Lectr.
 White, R. J., [Down.], MA Lectr.
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 Wormald, B. H. G., [Pet.], MA Lectr.
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 Parkin, C. W., [Cla.], MA Asst Lectr.
 Porter, H. C., [Selw.], MA PhD Asst Lectr.
- History and Institutions, American**
 Blackmur, R. P., [Chr.], Hon LittD Rutgers, MA Pitt Prof (1961-62)
 Franklin, J. H., AM PhD Harv Pitt Prof (1962-63)
- Human Ecology, see Medicine**
- Indian Studies, see Oriental Studies**
- Industrial Management**
 Willett, F. J., [Fitzw.], MA Asst. Dir. of Res
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 Kirkaldy, H. S., [Qu.], CBE, LLB Edm., MA Montague Button Prof.
- Iranian Studies, see Oriental Studies**
- Italian**
 Vincent, E. R. P., [Corp.], CBE, MA DPhil Oxon., LittD Prof
 Brand, C. P., [Tr. H.], MA PhD Lectr
 Foster, Rev. F. S., [Chr.], MA PhD Lectr
 Limentani, U., [Corp.], PhD Lond., DLitt LLD Milan, MA Lectr
 Reynolds, Barbara, [Girton], BA PhD Lond., MA Lectr.
 i Lector
- Japanese, see Oriental Studies**
- Latin, Mediaeval**
 Dionke, E. P. M., BA Oxon., MA N Z Lectr
- Law**
 Duff, P. W., [Trin.], MA (Civil L.) Regius Prof.
 Wade, E. C. S., [Cin.], QC, Hon DCL Durh., LLD, FBA
 (Laws of England) Downing Prof.
 Jennings, R. Y., [Jes.], MA LLB (Internat. L.) Whewell Prof.
 Bailey, S. J., [Joh.], LLD (Engl. L.) Rouse Ball Prof.
 Hamson, C. J., [Trin.], MA LLM (Compar. L.) Prof
 Jackson, R. M., [Joh.], LLD (Public L. & Admin.) Reader
 Williams, G. L., [Jes.], LLD, FBA (Engl. L.) Reader
 Armitage, A. L., [Qu.], MA LLB Lectr.
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 Dias, R. W. M., [Magd.], MA LLB Lectr
 Ellis Lewis, T., [Tr. H.], BA LLB Wales, PhD Lectr., Librarian, Squire Law Library
 Gooderson, R. N., [Cath.], MA Lectr
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 Lipstein, K., [Cla.], PhD Lectr.
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 Parry, C., [Down.], LLD Lectr.
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 Scott, K., [Joh.], MA LLB Lectr.
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 Wedderburn, K. W., [Cla.], MA LLB Lectr.
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 Wilson, G. P., [Qu.], MA LLB Lectr
 Yale, D. E. C., [Chr.], MA LLB Lectr.
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 Turpin, C. C., [Cla.], MA LLB Asst. Lectr.

Linguistics, General, see Phonetics

Logic, see Philos.

Mathematical Laboratory

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Miller, J. C. F., [Trin.], ScD	Lectr.
Swinnerton-Dyer, H. P. F., [Trin.], MA	Lectr.
Wheeler, D. J., [Trin.], BA PhD	
	Asst. Dir. of Res.
Barron, D. W., [Down], MA PhD	
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Maybrey, Margaret A., [Girton], BA	
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Mutch, E. N., [King's], BSc Lond, MA	
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Wiseman, N. E., BSc Lond, MS Ill.	
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Mathematics

Hodge, Sir William, [Pemb], Hon. DSc <i>Brist., Exe, Linc, Liv, Sheff & Wales</i> , Hon. LLD <i>Edin</i> , MA <i>Edin</i> , ScD, FR S	
	(Astron. & Geom.) Lowndean Prof.
Hall, P., [King's], MA, FR S	
	(Pure M) Sadleirian Prof.
Davenport, H., [Trin.], MA <i>Manc.</i> , ScD, FR S	Rouse Ball Prof.
Cartwright, Mary L., [Girton], DPhil <i>Oxon.</i> , Hon. LLD <i>Edin</i> , Hon. DSc <i>Leeds & Hull</i> , ScD, FR S	
	(Theory of Functions) Reader
Burkitt, J. C., [Pet], ScD, FR S	
	(Mathl. Analysis) Reader
Ingham, A. E., [King's], MA, FR S	
	(Mathl. Analysis) Reader
Todd, J. A., [Down.], BA PhD, FR S	
	(Geom.) Reader
Babbage, D. W., [Magd.], OBE, MA PhD	Lectr.
Cane, Violet R., [Newn.], MA	Lectr.
Cassels, J. W. S., [Trin.], MA <i>Edin</i> , PhD	Lectr.
Gimshaw, Margaret E., [Newn.], MA	Lectr.
Ringrose, J. R., [Joh], BSc Lond, MA PhD	Lectr.
Smithues, F., [Joh], BA PhD	Cayley Lectr.
Steen, S. W. F., [Chr], MA	Lectr.
Taunt, D. R., [Jes], MA PhD	Lectr.
Walker, A. M., [Sid], MA	
	Lectr., Dir., Statistical Lab.
Wall, C. T. C., [Trin.], BA PhD	Lectr.
Ward, A. J., [Emm.], BA PhD	Lectr.
Williamson, J. H., [King's], MA <i>Edin</i> , PhD	Lectr.
Zeeman, E. C., [Cai.], MA PhD	Lectr.
Adams, J. F., [Tr. H.], MA PhD	Asst. Lectr.

Mathematics, Applied, see also Phys.

Dirac, P. A. M., [Joh.], BSc <i>Brist.</i> , PhD, FR S	Lucasian Prof.
Hoyle, F., [Joh.], MA, FR S	
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	(Fluid Dynamics) Reader, Hd. of Dept
Lyttleton, R. A., [Joh.], MA PhD, FR S	
	(Theoret. Astron.) Reader
Eden, R. J., [Cai.], MA PhD	Lectr.
Friedlander, F. G., [Joh.], BA PhD	Lectr.
Goldstone, J., [Trin.], MA PhD	Lectr.
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Mestel, L., [Joh.], BA PhD	Lectr.
Polkinghorne, J. C., [Trin.], MA PhD	Lectr.
Powell, F. C., [Cai.], MA PhD	Lectr.
Proudman, I., [Trin.], BSc <i>Liv</i> , PhD	Lectr.
Scimma, D. W. S., [Trin.], MA PhD	Lectr.
Taylor, J. C., [Pet], MA PhD	Lectr.
Phillips, O. M., [Joh.], BSc <i>Syd</i> , PhD	
	(Dynamic Oceanog.) Asst. Dir. of Res.
Dougherty, J. P., [Pemb.], MA	Asst. Lectr.
Moffatt, H. K., [Trin.], BA	Asst. Lectr.
Thouless, D. J., [Chr], PhD <i>Corn</i> , MA	
	Asst. Lectr.

Mechanical Sciences, see Engineering,
below

Medicine and Surgery, see below

Metallurgy

Cottrell, A. H., [Chr], PhD <i>Birm</i> , MA, FR S	Goldsmiths' Prof.
Charles, J. A., [Joh], BSc Lond, MA	Lectr.
Hoar, T. P., [Sid], ScD	Lectr.
Kelly, A., [Chr], BSc <i>R'dg</i> , PhD	Lectr.
Smith, G. C., [Pemb.], MA	Lectr.
Brandon, D. G., [Emm.], MA PhD	
	Sr. Asst. in Res.
Chilton, J. P., [Cai.], MA PhD	Demr.
Dew-Hughes, D., [Chr.], BSc <i>Birm</i> , DEng <i>Yale</i>	Demr.
Nicholson, R. B., [Chr], MA PhD	Demr.

Mineralogy and Petrology

Deer, W. A., [Joh], MSc <i>Manc</i> , PhD	Prof.
Nockolds, S. R., [Trin.], BSc <i>Manc</i> , PhD, FR S	(Geochem.) Reader
Agrell, S. O., [Tr. H.], BA PhD	Lectr., Curator
Bown, M. G., [Cai.], MA PhD	Lectr.
Evans, R. C., [Cath.], MA PhD	Lectr.
Gay, P., [Down.], MA PhD	Lectr.
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Muir, I. D., [Joh.], BA PhD	Lectr.
Long, J. V. P., [Chr], MA PhD	
	Asst. Dir. of Res.
Kelsey, Christine H., [Girton], MA PhD	Demr.
Le Bas, M. J., [Emm.], BSc Lond, PhD	Demr.
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McKie, D., [Jes], MA	Demr.
Scoon, J. H., BSc Lond, MA	Tech. Officer

Moral Science, see Philos.

Music

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 Wilcocks, D. V., [King's], MC, MA MusB, FRCO Lectr
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 Temperley, N. M., [King's], MA PhD Asst. Lectr
 MusB
 Cudworth, C. L. E., [Cai.], MA Curator, Pendlebury Library

Mycology, see Agriculture, below, and Bot

Norwegian

- Popperwell, R. G., [King's], MA PhD Lectr

Oriental Studies, see below

Parasitology

- Tate, P., [Chr.], ScD Reader, Dir. of Molteno Inst
 Tatchell, R. J., [Qu.], BSc *Lond*, PhD Asst. in Res

Pathology, see Medicine, below

Persian, see Oriental Studies, below

Petrology, see Mineral.

Pharmacology, see Medicine, below

Philology, Comparative

- Allen, W. S., [Trin.], MA PhD Prof

Philology, Romance

- Cremona, J., [Cath.], BA *Lond*, MA Lectr

Philosophy

- Braithwaite, R. B., [King's], MA, FBA (Moral P.) Knightbridge Prof
 Wisdom, A. J. T. D., [Trin.], MA Prof
 Ewing, A. C., [Tr. H.], LittD Reader
 Bennett, J. F., [Magd.], MA N Z & Camb. Lectr
 Buchdahl, G., [King's], MA *Melb* & Camb. (P. of Sci.) Lectr
 Lewy, C., [Trin.], MA PhD Sidgwick Lectr.
 Hesse, Mary B., [Girton], PhD *Lond*, MA (P. of Sci.) Asst. Lectr.
 Smiley, T. J., [Cla.], MA PhD Asst. Lectr
 Tanner, M. K., [Corp.], BA Asst. Lectr

Philosophy, Ancient

- Guthrie, W. K. C., [Down.], LittD, FBA Laurence Prof

Phonetics

- Lyons, J., [Chr.], MA PhD (Gen. Linguistics) Lectr.
 Trim, J. L. M., [Cath.], BA *Lond*, MA Lectr

Physics, see also Mathematics, Applied

- Frisch, O. R., [Trin.], OBE, DSc DPhil *Vienna*, MA, FRS (Nat. Philos.) Jacksonian Prof
 Mott, N. F., [Cai.], Hon. DSc *Brist*, *Rdg*, *Lev*, *Grenoble*, *Louvain*, *Paris* & *Poitiers*, MA, FRS (Exper. P.) Cavendish Prof
 Pippard, A. B., [Cla.], MA PhD, FRS J. H. Plummer Prof.
 Ryle, M., [Trin.], MA, FRS (Radio Astron.) Prof

- Bowden, F. P., [Cai.], DSc *Tas.*, ScD, FRS (P. & Chem. of Solids) Reader
 Shire, E. S., [King's], MA Reader
 Shoenberg, D., [Cai.], MBE, BA PhD, FRS Reader
 Taylor, W. H., [Trin.], MA (Crystallog.) Reader
 Townsend, A. A., [Emm.], MSc *Melb*, PhD, FRS (Exper. Fluid Mech.) Reader
 Ashmead, J., [Trin.], MA PhD Lectr.
 Budden, K. G., [Joh.], MA PhD Lectr.
 Clemmow, P. C., [Sid.], MA PhD (Theoret. Electrodynam. & Radio) Lectr
 Cochran, W., [Tr. H.], PhD *Edin*, MA Lectr
 Cosslett, V. E., [Pemb.], PhD *Brist*, MA *Oxon* & *Camb* Lectr.
 Faber, T. E., [Corp.], MA PhD Lectr.
 Hirsch, P. B., [Chr.], MA PhD Lectr.
 Kempton, A. E., [Chr.], MA PhD Lectr.
 Megaw, Helen D., [Girton], MA PhD Lectr.
 Scott, J. M. C., [King's], MA (Theoret. P.) Lectr.
 Smith, K. F., [Sid.], MA PhD Lectr.
 Squires, G. L., [Trin.], MA PhD Lectr.
 Tabor, D., [Cai.], ScD Lectr.
 Wormell, T. W., [Joh.], MA PhD (Meteorol. P.) Lectr.

- Ziman, J. M., [King's], DPhil *Oxon*, MA *Oxon* & *Camb* Lectr.
 Assistant Directors of Research
 Briggs, B. H., [Cla.], MA PhD (Radiophys.)
 Gibbons, I. R., [King's], BA PhD (Electron Microscopy)
 Hewish, A., [Chr.], MA PhD
 Yoffe, A., [Trin.], MSc *Melb*, PhD (P. & Chem. of Solids)

Senior Assistants in Research

- Elsmore, B., [Pemb.], MA
 Smith, K. C. A., [Fitzw.], MA PhD
 Thomas, J. O., [Fitzw.], PhD *Waler*, MA
 Walshaw, C. D., [Cla.], MA PhD (Meteorol. Phys.)

Demonstrators

- Adkins, C. J., [Jes.], MA PhD
 Baldwin, J. E., [Qu.], MA PhD
 Bugg, D. V., [Emm.], MA
 Heine, V., [Cla.], MSc N Z, PhD
 Shakeshaft, J. R., [Cath.], MA PhD

Vinen, W F, [Pemb], MA PhD
 Whelan, M. J., [Cai], MA PhD

Assistant in Research

Engineer in charge of nuclear equipment
 Beck, H V, BSc Lond, MA

Technical Officers

Bett, N, BSc Glas
 Yates, G. G., [Jes], MA

Physiology, see also Agriculture and
 Veterinary Studies, below

Matthews, Sir Bryan H C, [King's], CBE,
 ScD, FRSc, Prof

Paikes, A S, [Chr], CBE, DSc Lond,
 ScD, FRSc

(P of Reproduction) Mary Marshall Prof
 Adair, G S, [King's], MA, FRSc

(Biophys) Reader
 Rushton, W A H, [Trin], ScD, FRSc, Reader

Willmer, E N, [Cla.], ScD, FRSc
 (Histol.) Reader

Adrian, Hon R H, [Chur.], MA MB
 BChir, Lectr.

Balfour, W E, [Cath.], PhD Edin, MA, Lectr.

Brindley, G S, [King's], MD, Lectr.

Campbell, F. W., [Joh], PhD MB ChB Glas,
 MA, Lectr.

Merton, P. A., [Trin], MA MB BChir, Lectr.

Pratt, C L G, [Chr], OBE, MD Liv, MA
 (Mammalian P.) Lectr.

Tunnichiffe, H. E., [Cat.], MA, Lectr.

Vickers, T, [Sid.], MA PhD, Lectr.

Barlow, H B, [King's], MA MB BChir,
 Asst Dir of Res

Bower, E A, [Cath.], MA VetMB, Demr.

Fitzsimons, J T, [Cai], MA PhD MB
 BChir, Demr.

Glynn, I M, [Trin], MA PhD MB
 BChir, Demr.

Robson, J G, [Joh], BA, Demr.

Walker, Margaret B, [Newn], MA, Demr.

Donaldson, P E. K., [Selw], MA Tech. Officer

Polish

Lewitter, L R, [Chr], MA PhD, Lectr.

Political Science

, see also Econ and Pol.

Brogan, D W, [Pet], MA Glas., Oxon. &
 Camb, FBA, Prof.

Portuguese

Milburn, A R, [King's], MA
 (also Spanish) Lectr.

Waldron, T P, [Selw], BA Lond, MA
 (also Spanish) Lectr.

1 Lector

Provençal

Topsfield, L T, [Cath.], MA PhD
 (also French) Lectr.

Psychology, Experimental, see also under
 Medicine, below

Zangwill, O L., [King's], MA Oxon. &
 Camb, Prof

Hick, W E, [Joh], MD Durh, MA, Reader

Gregory, R L, [Down], MA, Lectr.

Grindley, G C, BSc Brst, MA, Lectr.

Watson, A J, [Corp], BA Oxon, MA, Lectr.

Welford, Rev A T, [Joh], MA, Lectr.

Weiskrantz, L, [King's], PhD Harv,
 Asst Dir of Res.

Psychology, Industrial

Chambers, E G, [Cla.], MA, Asst Dir. of Res.

Quaternary Research

, see Bot

Rabbinics

, see Oriental Studies, below

Radiophysics

, see Phys

Radiotherapeutics

, see Medicine, below

Russian

Squire, P S, [Chur.], MA PhD, Lectr.

1 Lector

Sanskrit

, see Oriental Studies, below

Scandinavian Studies

Bredsdorff, E L., [Trin.], MA, Reader

Slavonic Studies

Hill, Elizabeth M., [Gurton], PhD Lond,
 MA, Prof

Andreyev, N., [Magd.], PhD Prague, MA, Lectr.

Auty, R, [Selw], DrPhil Mun., MA, Lectr.

Goy, E D, [Qu], MA PhD, Lectr.

Sands, E R, [Emm], MA, Lectr.

Vlasto, A P., [King's], MA PhD, Lectr.

Young, W I H S, [Magd.], MA, Lectr.

Soil Physics

, see Agriculture, below

Spanish

Wilson, E M, [Emm], MA PhD, Prof

Batista i Roca, J M, [Emm], MA, Lectr.

Boorman, J T, [King's], MA, Lectr.

Grant, Mrs Helen F, [Gurton],
 MA Oxon & Camb, Lectr.

Milburn, A R, [King's], MA
 (also Portuguese) Lectr.

Waldron, T P, [Selw], BA Lond., MA
 (also Portuguese) Lectr.

Street, Mrs Florence S, [Newn], MA,
 Asst Lectr.

1 Lector

Swedish

Scobbie, Irene, [Gurton], BA Durh., MA,
 Asst Lectr.

- Theology**, see Div.
- Tibetan**, see Oriental Studies, below
- Turkish**, see Oriental Studies, below
- Veterinary Medicine**, see Veterinary Studies, below
- Zoology**, see also Veterinary Studies (Animal Pathol.), below
- Pantin, C. F. A., [Trin], ScD, FRS Prof.
- Ramsay, J. A., [Qu.], MBE, MA PhD, FRS (Compar Physiol) Reader
- Thorpe, W. H., [Jes.], ScD, FRS (Animal Behaviour) Reader
- Cott, H. B., [Selw.], DSc Glas., ScD Lectr., Curator of Vertebrates, Strickland Garator of Museum of Zool.
- Goodhart, C. B., [Cai.], MA PhD Lectr., Curator of Invertebrates, Museum of Zool.
- Hollick, P. S. J., [Joh.], MA PhD Lectr.
- Hughes, G. M., [Magd.], MA PhD Lectr.
- Lussmann, H. W., [Trin.], MA Hamburg & Camb., FRS Lectr.
- Parrington, F. R., [Sid.], ScD Lectr., Dir of Museum of Zool
- Parry, D. A., [King's], BA Brist., PhD Lectr.
- Pryor, M. G. M., [Trin.], MA PhD Lectr.
- Salt, G., [King's], BSc Alta., ScD Harv. & Camb., FRS Lectr.
- Smart, J., [Cai.], DSc Edin., MA Lectr., Curator of Insects, Museum of Zool.
- Smith, S., [Cath.], MA PhD Lectr.
- Brown, R. H. J., [King's], MA PhD Asst Dir of Res.
- Hinde, R. A., [Joh.], DPhil Oxon., MA Oxon. & Camb. Asst. Dir. of Res.
- Picken, L. E. R., [Jes.], ScD Asst. Dir. of Res.
- Rothschild, Lord, [Trin.], GM, ScD, FRS Asst. Dir. of Res.
- Harker, Janet E., [Girton], MSc Syd., PhD Manc., MA Demr.
- Wells, M. J., [Chur.], MA Demr.
- Joysey, K. A., [Magd.], PhD Lond., MA Asst Curator, Museum of Zool
- Grimstone, A. V., [Pemb.], MA PhD Asst in Res.
- Robson, Elaine A., [Newn.], MA PhD Asst. in Res.
- AGRICULTURE**
(see also Biol., above)
- Hutchinson, Sir Joseph B., [Joh.], CMG, ScD, FRS Drapers Prof
- Brookes, A. J., [Selw.], MA Dir of Univ Farm
- Barker, M. G., [Trin.], MA (Agric. Implements & Machinery) Lectr
- Campbell, R. C., [Cai.], MA PhD (Stats.) Lectr
- Carpenter, K. J., [Sid.], MA PhD Lectr
- Dickinson, S., [Emm.], MSc Wales, PhD Mann., MA (Mycol.) Lectr
- Evans, R. E., [Cai.], PhD Lectr.
- Gilmour, D. G., [Cath.], MA PhD Lectr.
- Hammond, J., [Chr.], MA Lectr.
- Lazenby, A., [Trin.], MSc Wales, MA PhD Lectr.
- Lowings, P. H., [Trin.], PhD Belf., MA Lectr
- Morgan, D. G., [Joh.], MSc Wales, MA (Agric Bot) Lectr
- Perrin, R. M. S., [King's], MA PhD Lectr
- Ribbonds, C. R., [Down.], ScD Lectr
- Ridgman, W. J., [Qu.], MA (Field Experimentation) Lectr
- Bache, B. W., [Fitzw.], BA Oxon., MA Demr.
- Fulmer, D. G., [Emm.], BSc Lond., MA Demr.
- Heap, R. B., [King's], BSc Nott Demr
- Jarvis, R. H., [Down.], MA Demr
- Kershaw, W. J. S., [Tr. H.], BSc Manc Demr
- Kirby, E. J. M., [Chr.], BSc Durh., PhD Nott., MA Demr
- Leat, W. M. F., PhD Lsw., MA Demr
- McGowan, M., [Down.], BSc Durh Demr
- Willmott, M. J., [Emm.], BSc Nott., MA Demr
- Wilton, B., MSc Durh., MA Demr
- Beveridge, J. L., [Selw.] Farm Demr
- Wilman, D., PhD Leeds Farm Demr
- Mash, Mrs Vivian M. M., [Girton], MSc Lond., MA Asst in Res.
- Agricultural Economics and History**
- Whetham, Edith H., [Newn.], MA Gilbey Lectr.
- Agricultural Engineering**
- van Rest, D. J., [Pet.], PhD Calif., BA Asst in Res.
- Animal Physiology**
- Grant, Marian P., BSc Nott. Asst. in Res.
- Morton, J. R., [Jes.], BA Asst. in Res.
- Crop Husbandry**
- Hanley, F., [Joh.], MA Reader
- Estate Management**
- Mills, E. F., DipTP Lond Dir
- Denman, D. R., [Chr.], PhD Lond., MA Lectr.
- Elgar, W. H., [Down.], MEng Sheff., MA Lectr
- Macintyre, D., [Trin.], MA Lectr
- Switzer, J. F. Q., [Sid.], MA Lectr
- Holister, F. D., [Pemb.], MA(Archit) Harv., MA Demr
- Stewart, Vivienne F., [Newn.], MA St.And. & Camb Asst. Lectr.
- Godfrey, Mary, BA MCD Lsw. Asst in Res.
- Kolbert, C. F., [Cath.], BA Asst. in Res.
- 22 Advisory Officers
- Farm Economics**
- Sturrock, F. G., [Trin.], BSc Glas., MA Dir
- Barnard, C. S., [Qu.], MA Sr. Res. Officer
- Joy, J. L., BSc Lond., MA Sr Res Officer
- Nix, J. S., BSc(Econ) Lond., MA Sr Res. Officer
- Wallace, D. B., [Qu.], MA Sr. Res. Officer
- Camm, B. M., [King's], MSc Res. Officer
- Graves, P. E Res Officer

Hinton, W L, BA *Manc*
McFarquhar, A M M
4 Jr Res. Officers

Res Officer
Res Officer

Forestry

..

Gurney Lectr

Soil Microbiology

Tribe, H T, PhD *Lond*, MA Sr. Asst in Res.

Soil Physics

Childs, E C, [Cla], ScD Asst Dir. of Res

Soil Science

....

Asst in Res

ENGINEERING

Baker, Sir John F, [Cla], OBE, Hon DSc
Leeds, DSc *Wales*, ScD, Hon DEng
Lv, FRSE, MICE

(Mech Scs) Prof., Hd. Dept of Engr

Hawthorne, W R, [Trin], CBE, MA, FRSE,
FRAESE, MIMechE

(Appl. Thermodyn.) Hopkinson & I C.I.

Prof

Oatley, C. W., [Trin.], MA (Electr. E.) Prof.

Johnson, D C, [Tr H], MA, MIMechE
(Mech) Prof

Binnie, A M, [Trin], MA, FRSE

Reader

Coates, J F, [Sid], MA

Reader

Davies, R. D., [Chr], MA PhD

Reader

Fox, E. N., [Trin], ScD

Reader

Rhodes, H G, [Joh], MA

Reader

Angus, R. H., [Sid], MA

Lectr.

Beck, A. H. W., [Qu], BSc *Lond*, MA

Lectr

Biggs, W. D., [Chr], PhD *Birm*, MA

Lectr

Brookes, A M P, [Joh], MA

Lectr

Brooks, J. H., [Cath.], MA

Lectr, Supt. of Engr Workshops

Charlton, T M, [Sid.], BSc *Lond*, MA

Lectr

Cohen, H, [Qu], PhD *Durh*, MA

Lectr.

Cooper, B, [Cla], MA

Lectr

Cooper, M. G., [Joh], MA

Lectr

Deakin, C S, [Qu], MA

Lectr

Dwight, J B, [Corp], MA MSc

Lectr.

Dykes, P de K, [King's], PhD *Stan*, MA

Lectr

Fallside, F, [Jcs], BSc *Edin.*, PhD *Wales*,

MA

Lectr

Fortescue, R. L., [Cla.], MA

Lectr.

Fox, T R C, [King's], MA

Lectr.

Frank, E K, [Tr. H.], MA

Lectr.

French, M. J., [Cath.], MA

Lectr

Gregory, R W., [Cath.], MA

Lectr.

Grinstead, P. E. W., [Chr], MA PhD

Lectr.

Grison, C W B, [Trin], MA PhD

Lectr

Hammond, P., [Emm], MA

Lectr

Harris, H S L., [Joh], MA

Lectr

Haywood, R. W., [Fitzw.], MA

Lectr

Heyman, J., [Pet], MA PhD

Lectr

Jaeger, L G., [Magd.], PhD *Lond.*, MA

Lectr

Johnson, K L., [Jes], MSc *Manc*, MA

Lectr

Johnson, R P., [Selw.], MA

Lectr

Leckie, F A., [Pemb.], BSc *St And*,

PhD *Stan.*, MA

Lectr

Livesley, R K., [Chur.], MA

Lectr

Lubbock, J K., [Qu.], BSc *Lond*, MA

Lectr

Marples, D L., [Tr. H.], MA

Lectr

Middleton, G. E., [Down.], MA

Lectr

Nicholson, H, MEng *Liv*

Lectr

Nicoll, G R., BSc *St And*

Lectr

Pascoe, K J., [Joh.], MA

Lectr

Percival, A L., [Jes.], MA

Lectr

Prentiss, J M., [Qu.], PhD *Lond*, MA

Lectr

Reddaway, J L., [Emm.], MA

Lectr

Robinson, F. D., [Cath.], MA

Lectr

Roscoe, K H., [Emm.], MC, MA

Lectr

Sander, K F., [Trin.], BSc *Lond*, MA

PhD

Lectr

Schofield, A N., [Chr.], MA PhD

Lectr.

Shaw, J C S., [Corp.], MA

Lectr

Shercliff, J A., [Trin.], MA PhD

Lectr

Sutton, E P., [Pemb.], MA *Oxon* &

Camb

Lectr

Taylor, D B C., [Pet.], PhD *Belf*, MA

Lectr.

Welbourn, D B., [Selw.], MA, MIMechE

Lectr

Whitehead, D. S., [Ca.], MA PhD

Lectr

Wood, M. D., [Ca.], MA PhD

Lectr.

Brooke Benjamin, T., [King's], BEng *Liv*,

MEng *Yale*, PhD

(Fluid Mech) Asst Dir of Res.

Cunningham, A. D P., [Trin.], MA

Asst Dir of Res

Freitag, E H., [Down.], PhD Asst Dir of Res

Fulke, A T., [Pet.], MA PhD Asst Dir of Res

Jones, R. P. N., [Joh.], MA PhD

Asst Dir of Res

Nixon, W C., [Trin.], PhD Asst Dir of Res

van Rest, E D., [Pet.], MA Asst Dir of Res

Banks, P J., [Ca.], BMEchE *Melb*

Sr Asst in Res

Birch, Mrs Gina M., [Gurton], MA

Sr Asst in Res

Cowley, M D., [Joh.], BA PhD Sr Asst in Res

Maull, D J., [Corp.], BSc *Lond*, MA

Sr Asst in Res

Threlfall, B D., [Trin.], MA

Sr Asst in Res

Turner, P W., [Ca.], MA

Design Engineer

Calladine, C R., [Pet.], MA

Demr

Payne, D. J., [Ca.], MA

Demr.

Radley, D E., [Qu.], MA

Demr.

Jeffers, J A., [Jes.], BA

Asst in Res

Munro, R. G., [Cath.], BSc *Durh*

Asst in Res

Seymour, R F, MS *Ill.*

Asst. in Res

Aeronautics

Maier, W A., [Down.], MA

(A. Engr.) F. Mond Prof

Head, M R., [King's], MA PhD

Lectr.

Chemical Engineering

Dankwerts, P V., [Pemb.], GC, MBE,

MSc *M I T*, MA *Oxon* & *Camb*

Shell Prof

Armstrong, W D., [Chur.], MA PhD

Lectr.

Davidson, J. F., [Trin.], MA PhD

Lectr.

Harrison, D., [Selw.], MA PhD, FRIC

Lectr.

Hutchison, H. P., [Sid.], MA *Oxon.* &
Camb.
 Kenney, C. N., [Qu.], MA PhD
 Ratcliff, G. A., [Joh.], MA
 Turner, J. C. R., [Trin.], MA PhD
 Blackadder, D. A., DPhil *Oxon.*, MA
 Nedderman, R. M., [Joh.], MA PhD
 Pearson, J. R. A., [Trin.], MA PhD

Asst Dir of Res

Lectr
 Lectr
 Lectr.
 Lectr.
 Demr
 Demr

Withycombe, J. F. R., [Cai.], MChir

MA (Surg)
 Wight, G. F., [Corp.], MA MB
 BChir (Ophthalmol.)

Medicine, Experimental

McCance, R. A., [Sid.], CBE, MD, FRCP,
 FRS Prof
 Walshe, J. M., [Tr. H.], MA MB BChir
 Asst Dir of Res

MEDICINE

(for Anat., Physiol., see above)

Human Ecology

Banks, A. L., [Cai.], MD *Lond.*, MA, FRCP Prof
 May, L. H. H., [Trin.], MA MB BChir
 Health Service Officer
 Carpenter, R. G., [Joh.], MA *Oxon.* &
Camb. Asst Dir of Res
 Malcolm, A. R., [Cath.] Supt of Phys Trg
 Young, Ann., [Newn.], BA Asst in Res

Medicine

Mitchell, J. S., [Joh.], CBE, Hon DSc *Bum.*,
 MD, FRS, FFR, MRCP
 (Physic) Regius Prof
 Cole, L. B., [King's], MD, FRCP
 Dean, Postgrad Med Sch
 Hayhoe, F. G. J., [Tr. H.], MD Lectr
 Kok, D. A., [Trin.], MD *Lond.*, BSc *Rand.*
 MA Lectr
 Wild, F., [Down.], MA PhD, FRIC Res Chemist
 Associate Lecturers
 Berridge, F. R., [Trin.], MA MB BChir,
 FFR (Radiol.)
 Bottomley, Janet E., [Girton.], MD *Lond.*,
 MA, FRCS (Obstet. & Gynaecol.)
 Butler, R. W., [Trin.], MD MChir,
 FRCS (Orthop. Surg.)
 Clark, D. H., [King's], MA (Psychiatry)
 Cole, L. B., [King's], MD, FRCP (Physic)
 Davies, E. B., [Cai.], MD (Psychiatry)
 Dick, A. P., [Tr. H.], MD, FRCP (Physic)
 Fairbank, T. J., [Trin.], MA MB BChir,
 FRCS (Orthop. Surg.)
 Fell, W. A., [Sid.], MA MB BChir (Phys. Med.)
 Gardner, D. M. T., [King's], DM *Oxon.*,
 MA, FRCP (Paed.)
 Ghey, P. H. R., [Joh.], MChir MA, FRCS (Surg.)
 Lloyd, O., [Chr.], MD *Lond.*, MA, FRCS,
 FRCOG (Obstet. & Gynaecol.)
 Martin, L. C., [Cai.], MD, FRCP (Physic)
 Parish, C., [Sid.], MB ChB *Manc.*, MA,
 FRCS (Thoracic Surg.)
 Rook, A. J., [Trin.], MD (Dermatol.)
 Rouillard, L. M., MA, FRCSed (Plastic Surg.)
 Truscott, B. M., [Down.], MBE, MB
 BS *Lond.*, MA, FRCS (Surg.)
 Walford, A. S. H., [Cai.], MA MB
 BChir, FRCS (Otolaryngol.)
 Wilsdon, K. F., [Femb.], BM BCh *Oxon.*,
 MA *Oxon.* & *Camb.*, FRCSed (Otolaryngol.)

Mental Pathology, see Psychol., Med

Pathology

Greaves, R. I. N., [Cai.], MD Prof
 (Bacteriol.) Reader, Actg Hd. of Dept
 Cruickshank, J. G., [Tr. H.], MB BS *Lond.*,
 MA Lectr
 Gresham, G. A., [Cai.], MD Lectr
 Hebertson, B. M., [Fitzw.], MD *Durh.*,
 MA Lectr
 Naylor, G. R. E., [Cai.], MD Lectr
 Roberts, G. F., [Jes.], MD Lectr
 Waterson, A. P., [Emm.], MD Lectr
 Coombs, R. R. A., [King's], BSc *Edin.*,
 PhD Asst Dir of Res
 Kellaway, T. D., [Cath.], MB BS *Lond.*,
 MA Demr
 Barrett, A. M., [Femb.], MD
 Univ. Morbid Anatomist & Histologist
 to Addenbrooke's Hosp
 Chalmers, D. G., [Tr. H.], MB BS *Lond.*, MA
 Univ. Haematologist to Addenbrooke's
 Hosp.
 Gleeson-White, M. H., [Tr. H.], MB BS *Lond.*,
 MA
 Univ. Bacteriologist to Addenbrooke's
 Hosp.
 Whitby, L. G., [Pet.], MD
 Univ. Biochemist to Addenbrooke's
 Hosp.
 Fry, R. M., [Tr. H.], MA
 Univ. Dir of Pub Health Lab Service
 Bossard, Joan M., [Girton.], MA, MRCP
 Univ. Asst. Dir of Pub Health Lab
 Service
 Treip, C. S., MD *Lond.*
 Univ. Sr Asst Pathologist to Adden-
 brooke's Hosp.
 Ainsworth, R. W., [Corp.], MA MB BChir
 Univ. Asst Pathologist to Adden-
 brooke's Hosp.
 Rack, J. H., [Cai.], MA MB BChir
 Univ. Asst Pathologist to Addenbrooke's
 Hosp.

Pathology, Chemical

Dixon, K. C., [King's], MD Lectr

Pharmacology

Shield Prof
 Grundy, H. F., [Tr. H.], MA MB BChir Lectr

Howarth, F., [Down], MD *Mane*, MA
Lectr, Actg Hd of Dept
Greenway, C. V., [Cath], BA Demr

Psychology, Medical

Russell-Davis, D., [Cla], MD Reader
Kennard, D. W., [King's], MB BS *Lond*,
PhD Sr Asst in Res
Clarke, Mrs. Cicely M., [Guton], MB ChB
Aberd, MA Asst in Res

Radiotherapeutics

Brinkley, Mrs. Diana M., [Girton], MB BS
Lond, MA
Clin Res Asst to Regius Prof of Physics
Marrion, D. H., [Trin], MSc *Mane*,
PhD Asst Dir of Res
Smith, C. L., [Joh], MA PhD Asst. Dir of Res
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MB BS *Lond*, PhD, MRCP
St Asst in Res
Falloon, S. W. H. W., [Qu.], MA Physicist
Asst in Res

ORIENTAL STUDIES

Altaic Languages

Sinor, D., [Magd], MA Lectr

Arabic

Arberry, A. J., [Pemb], LittD, FBA
Sir T. Adams's Prof
Hopkins, J. F. P., [Tr. H.], PhD *Lond*,
BA (Mod. A.) Lectr
Lyons, M. C., [Pemb], MA PhD Lectr
i Lectr

Aramaic

Goodman, Rev. A. E., [Cai], MA Lectr

Assyriology

Kinnier Wilson, J. V., [Emm], MA *Oxon* &
Camb. Eric Yarrow Lectr

Chinese

Pulleyblank, E. G., [Down], BA *Alta*,
PhD *Lond*, MA Prof
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PhD *Edin.*, MA (Mod. C.) Lectr
Goodrich, C. S., [Cath], PhD *Calif*, MA
(Classical C.) Lectr
i Lectr

Egyptology

Plumley, Rev. J. M., [Selw], BA
MLitt *Durh.*, MA H. Thompson Prof.
Smith, H. S., [Chu], MA Lectr

Far Eastern Art and Archaeology

Cheng, T.-K., [King's], MA Lectr

Far Eastern History

van der Loon, P., [King's], Cand *Ley*, MA
Lectr.

Hebrew

Thomas, D. W., [Cath], MA *Oxon* & *Camb*
Regius Prof.
Rosenthal, E. I. J., [King's], DPhil *Berl.*,
LittD (Oriental Studies) Reader

Indian Studies (Art and Archaeology)

Allchin, F. R., [Qu.], BA PhD *Lond*, MA Lectr

Indian Studies (Prakrit)

Norman, K. R., [Down], MA Lectr

Iranian Studies

Gershevitch, I., [Down], DLitt *Rome*,
PhD *Lond*, MA Lectr

Islamic History

Dunlop, D. M., [Tr. H.], BA *Oxon*, MA Lectr.

Japanese

Blacker, Carmen E., [Newn], MA *Oxon* &
Camb Lectr
Cesdel, E. B., [Cai], MA Lectr
i Lectr

Japanese History

Sheldon, C. D., [Down], PhD *Calif*,
MA Asst Lectr

Near Eastern History

Munn-Rankin, Joan M., [Newn], MA *Oxon*,
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Persian

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Darke, H. S. G., [Down], MA MLitt Lectr
i Lectr

Rabbinics

Teicher, J. L., [Cath], PhD *Florence*, MA Lectr

Sanskrit

Bailey, Sir Harold W., [Qu.], DPhil *Oxon*,
MA *Oxon*, *W Aust* & *Camb*, FBA Prof.

Semitic Epigraphy

Diringer, D., [Pemb], DLitt *Florence*, MA
Lectr

Tibetan

Bailey, D. R. S., [Jes], LittD, FBA Lectr

Turkish

Gandjei, T., BA *Istanbul*, DèsL *Rome* Lectr

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 Short, R. V., [Magd], BVSc *Brist.*,
 MSc *Wis*, PhD Lectr

Animal Pathology

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 Betts, A. O., [Magd], BSc *Lond*, MA
 PhD Lectr
 Jennings, A. R., [Cla], MVSc *Liv*, MA Lectr
 Soltyz, M. A., [King's], PhD *Edm*, MA Lectr.
 Soulsby, E. J. L., [Cath], PhD DVSM *Edm.*,
 MA Lectr
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 PhD Lectr
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 Rose, Mrs Margaret E., [Girton],
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 Elliott, S. D., [Cath], MD *Lond*, MA
 Asst. Dir. of Res

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 Silver, Mrs Marian, [Newn.], MA
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Founded in 1505 by the Lady Margaret, Countess of Richmond and Derby, mother of King
Henry VII (a refoundation of 'God's House', founded in 1448 by King Henry VI). Junior members
in residence (1960-61), 443 Telephone. Cambridge 59601

Master—B. W. Downs, Hon DLitt Hull, MA

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Todd, Sir Alexander R., DSc Hon. LLD Glas,
Hon DrRerNat Kiel, Hon DSc Lond, Eae,
Leic & Wales, DPhil Oxon, DrPhil Fyran,
MA, FRS, FRIC, Prof (Org Chem)
Plumb, J. H., LittD, U. Lectr. (Hist.)
Kempton, A. E., MA PhD, Tutor, U. Lec tr
(Phys)
Pratt, C. L. G., OBE, MD Lw, MA, Sr. Tutor,
Prælector, U. Lectr (Mammalian Physiol.)

Yale, D. E. C., MA LLB, *Tutor, U. Lectr (Law)*
 Prest, A. R., MA PhD, *Bursar, U. Lectr (Econ.)*
 Levy, R., LittD
 Lewitter, L. R., MA PhD, *Tutor, U. Lectr (Polish)*
 Coombe, D. E., MA PhD, *U. Lectr (Bot)*
 Hough, G. G., LittD, *U. Lectr. (Engl.)*
 Kenyon, J. P., BA *Sheff.*, PhD, *U. Lectr (Hist.)*, *Jr. Proctor*
 Grensted, P. E. W., MA PhD, *Steward, U. Lectr (Engin.)*
 Smith, H. S., MA, *Tutor, U. Lectr (Egyptol.)*
 Sykes, P., BSc *Mane.*, PhD, *U. Lectr (Chem.)*
 Shute, C. C. D., MD, *U. Lectr (Anat.)*
 Meade, J. E., CB, MA *Oxon & Camb.*, FBA, *Prof (Pol Econ)*

Cottrell, A. H., PhD *Birm.*, MA, FRS, *Goldsmiths' Prof (Metall.)*
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 Burrow, J. W., MA
 O'Higgins, P., MA LLB *Dub.*, *U. Asst Lectr (Law)*
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 Bain, A. D. BA, *U. Asst Lectr (Econ.)*
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 Parkes, A. S., CBE, DSc *Lond.*, ScD, FRS, *May Marshall Prof (Physiol. of Reproduction)*
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CHURCHILL COLLEGE

Founded in 1960 as a memorial to the Rt Hon Sir Winston Churchill, KG, OM, CH, the college is especially but not wholly concerned with the advancement of science and technology. The first graduate students (about 30) came into residence in Oct. 1960 and the first undergraduates (about 80) came into residence in Oct. 1961. Telephone Cambridge 51355

Master—Sir John D. Cockcroft, OM, KCB, CBE, MSc *Tech. Manc.*, Hon. DSc *Oxon.*, *Lond.*, *Syd.*, *ANU*, *Manc.*, *Leeds*, *Birm.* & *Lanc.*, Hon. LL.D. *Tor.*, *Glas.*, *Melb.*, *St. And.* & *Dal.*, Hon. ScD *Dub.*, & *Camb.*, Hon. DEng *Sheff.*, Hon. DTechSc *T.H. Delft*, MA PhD, MIEE, FIP, FRS

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 Adonis, Hon. R. H., MA MB BChir, *Tutor, U. Lectr. (Physiol.)*
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 Bullard, Sir Edward C., ScD, FRS, *Reader (Geophys.)*
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 Gilchrist, A. O., BA, *Sydney Harvey Fellow*
 Hahn, F. H., BSc (Econ.) PhD *Lond.*, *U. Lectr (Econ.)*
 Hamilton, Major-Gen. J. R. C., CB, CBE, DSO, MA, *Bursar*
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 Jones, R. A. Y., BA
 Katritzky, A. R., BSc MA DPhil *Oxon.*, PhD, *U. Demr. (Org. & Inorg. Chem.)*

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 Robinson, I. C., BA
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 Sinclair, A. A., BA
 Snow, Sir Charles P., CBE, Hon. LL.D. *Lanc. & Liv.*, PhD, FRS
 Squire, P. S., MA PhD, *U. Lectr. (Russian)*
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 Thouless, D. J., PhD *Conn.*, MA, *U. Asst. Lectr. (Appl. Maths.)*
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Master—Sir Eric Ashby, DSc *Lond.*, Hon. DSc *NUI*, Hon. ScD *Dub.*, Hon. LL.D. *St. And.* & *Aberd.*, Hon. DLitt *W. Ont.*, DIC, MA

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 Jones, O. T., DSc *Wales*, MA, FRS
 Hutton, R. S., DSc *Manc.*, MA

- Willmer, E N., ScD, FRS, *Steward, Reader (Histol.)*
 Reddaway, W B, MA, *Reader (Econ)*, *Dir., Dept of Appl Econ*
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 Moule, Rev C. F. D., MA, *Lady Margaret's Prof (Div)*
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 Boyd, J. D., MD Belf., MA, FLS, *Prof. (Anat)*
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| Woods, Rev Canon G F., BD, <i>Dean of Chapel,</i>
<i>U Lectr. (Div)</i> | Chadwick, J., MA, <i>U Lectr (Classics)</i> |
| Sporne, K. R., MA PhD, <i>Dean, U. Lectr (Bot)</i> | Carrington, A., BSc PhD <i>S'ion</i> , MA, <i>Asst in</i>
<i>Res (Theoret Chem.)</i> |
| Middleton, G E., MA, <i>U Lectr (Engin)</i> | Henderson, G D S., BA <i>Aberd & Lond</i> , MA
PhD |
| Stevenson, J., AM <i>Prim</i> , MA, <i>Tutor, U Lectr</i>
(Div) | Barron, D W., MA PhD, <i>Sr Asst in Res</i>
(<i>Math Lab</i>) |
| Smith, F G., MA PhD, <i>Prælector</i> | Cooper, M. J., BA |
| Norman, K. R., MA, <i>Tutor, U Lectr (Indian</i>
<i>Studies (Prabrit))</i> | Hopkins, J A., BA LLB |
| Mair, W. A., MA, <i>F Mond Prof. (Aero. Engin)</i> | |

EMMANUEL COLLEGE

Founded in 1584 by Sir Walter Mildmay, Chancellor of the Exchequer and Privy Councillor in the reign of Queen Elizabeth Junior members in residence (1960-61), 422 Telephone Cambridge 58356.

Master—E Welbourne, MC, MA

- Fellows
- | | |
|--|---|
| Wilson, E M, MA PhD, <i>Vice-Master, Prof</i>
(<i>Spanish</i>) | Rickard, P., MA DPhil Oxon, PhD, <i>Asst. Tutor,</i>
<i>U Lectr (French)</i> |
| Greenwood, L H G., MA | Lapwood, E R, MA PhD, <i>Asst Tutor, U. Lectr</i>
(<i>Appl Maths</i>) |
| Jones, Sir Bennett Melvill, CBE, AFC, MA, FRS | Root, Rev H E, BA Oxon, MA, <i>Dean, U Lectr</i>
(<i>Div</i>) |
| Gardner, R, MC, MA | Waterson, A P., MD, <i>Asst Tutor, U. Lectr</i>
(<i>Pathol</i>) |
| Bennett, H. S., MA, FBA | Titchen, D. A., MA PhD, <i>U. Lectr. (Vet</i>
<i>Physiol)</i> |
| Tilley, C. E., Hon DSc <i>Manc</i> , PhD, FRS | Gray, R D, MA PhD, <i>U. Lectr (German)</i> |
| Norrish, R. G. W., ScD, FRS, FRIC, <i>Prof (Phys</i>
<i>Chem.)</i> | Thoday, J M, BSc Wales, PhD, <i>Arthur Balfour</i>
<i>Prof (Genetics)</i> |
| Grave, W W., CMG, Hon LL.D. <i>Camb. & McM</i> ,
MA PhD, <i>Censor, Fitzwilliam House</i> | Newsome, D. H., MA, <i>Prælector</i> |
| Mansfield, W S., CBE, MA | Woollam, D H. M., MD, <i>Dom. Bursar, U Lectr</i>
(<i>Anat</i>) |
| Owst, G R., DLit PhD <i>Lond.</i> , LittD, FSA | Lesner, H H, BA <i>Brist.</i> , MA, <i>U. Lectr. (Econ.)</i> |
| Ward, A J., BA PhD, <i>Bursar, U. Lectr (Maths.)</i> | Reddaway, J L, MA, <i>U Lectr (Engin)</i> |
| Hunter Blair, P, MA, <i>Sr Tutor, U Lectr</i>
(<i>Anglo-Saxon</i>) | Thrush, B. A., MA PhD, <i>Asst Dir of Res. (Phys</i>
<i>Chem)</i> |
| Wilson, E M., MA PhD, <i>Prof (Spanish)</i> | Coleman, R G G, MA, <i>U. Lectr (Classics)</i> |
| Stubbings, F. H., MA PhD, FSA, <i>Librarian, U.</i>
<i>Lectr (Classics)</i> | Gauld, A O, MA |
| Sands, E R., MA, <i>Asst Tutor, U Lectr</i>
(<i>Slavonic Studies</i>) | Bugg, D V, MA, <i>U. Demr. (Phys)</i> |
| Townsend, A A, MSc <i>Melb</i> , PhD, FRS, <i>Reader</i>
(<i>Exper Fluid Mech.</i>) | Collier, J G, MA LLB |
| Roscoe, K. H., MC, MA, <i>Asst Tutor, U Lectr.</i>
(<i>Engin</i>) | Pratt, G L, BA PhD |
| Odgers, F. J., MA LLB, <i>Tutor, U Lectr (Law)</i> | Scott, P. F |
| | Poorooshash, H B, BSc <i>Manc.</i> , PhD |

FITZWILLIAM HOUSE

Established in 1887 as the centre of the corporate life of 'non-collegiate' students. It is an institution under the direct control of the Univ. It has no rooms for students, who all live in lodgings, but otherwise provides similar facilities to a college. Junior members in residence (1960-61), 444. Telephone Cambridge 59132.

Censor—W W. Grave, CMG, Hon. LL.D. *Camb & McM*, MA PhD

Williams, W W, MA, *Asst. Censor, Bursar, U. Lectr. (Geog.)*
Walters, R N, MA, *Tutor, Prælector*
Herbertson, B. M., MD *Durh.*, MA, *Asst Tutor, U Lectr (Pathol)*
Kelly, R, DULYons, MA, *Asst Tutor, Domestic Bursar*

Street, J., MA PhD, *Asst Tutor, U. Lectr (Latin-American Studies)*
Thomas, J O., PhD *Wales*, MA, *Asst Tutor, Sr Asst. in Res (Phys.)*
Palmer, Rev F H, MA, *Chaplain*

GONVILLE AND CAIUS COLLEGE

Founded in 1348 as Gonville Hall by Edmund Gonville, the name of the college and its situation were both changed by William Bateman, Bishop of Norwich, his executor, in 1353, when it became the Hall of the Annunciation of Blessed Mary the Virgin. In 1558 John Caius obtained a royal charter confirming the earlier foundations and establishing his own, and by this charter the college received its present name. Junior members in residence (1960-61), 466. Telephone Cambridge 53275.

Master—N F Mott, Hon DSc *Brist.*, R'dg., Lw, *Grenoble, Louvain, Paris & Poitiers*, MA, FRS, *Camendish Prof. (Exper Phys)*

Fellows

Punnett, R C., MA, FRS
McNau, Lord, CBE, Hon LL.D. *Glas*, Lw., *Burm & Salomka*, Hon DCL *Oxon*, Hon. DLitt R'dg., LL.D, FBA, *Commissary*
Phear, H W, MA
Debenham, F, OBE, MA
Tunnicliffe, H E, MA, *U Lectr (Physiol)*
Needham, N J T M, ScD, FRS, *President, Sir W Dunn Reader (Biochem)*
Oakeshott, M J, MA
Deas, H T, MA, *U Lectr (Classics)*
Weller, E P, CBE, MA, *Bursar*
Bowden, F P., DSc *Tas*, ScD, FRS, *Reader (Phys. & Chem. of Solids)*
Powell, F C., MA PhD, *Jr Bursar, U Lectr (Appl Maths)*
Wade, E C S, QC, Hon. DCL *Durh*, LL.D, FRA, *Dowling Prof (Laws of England)*
Gniffith, G T, MA, FBA, *Laurence Reader (Classics)*
Greaves, R I N, MD, *Reader (Bacteriol)*
Grierson, P, MA, FSA, FBA, *Librarian, Reader (Medieval Manuscripts)*
Hadley, P. A. S., MusD, FRCM, *Prof (Music)*
Fisher, Sir Ronald A., ScD, FRS
Chadwick, Sir James, PhD, FRS
Wigglesworth, V B, CBE, MD, FRS, *Quack Prof (Biol)*
Naylor, G R E, MD, *Tutor, U Lectr (Pathol)*
Shoenberg, D, MBE, BA PhD, FRS, *Reader (Phys)*
Clark, V M., MA PhD, *Coll Registrary, U. Lectr (Chem)*
Harland, W B, MA, *U Lectr. (Geol)*

Prichard, M J, MA LLB, *Prælector, U. Lectr. (Law)*
Banks, A L, MD *Lond*, MA, FRCP, *Prof (Human Ecol)*
Hewish, A, MA PhD, *Asst Dir of Res (Phys)*
Zeeman, E C., MA PhD, *U. Lectr (Maths)*
Montefiore, Rev H. W., MA *Oxon. & Camb*, *Dean, U Lectr (Div)*
Brink, C. O., DrPhil *Berl*, MA *Oxon. & Camb*, *Kennedy Prof. (Latin)*
Waddington, T C, MA PhD, *Tutor, U Demr. (Chem.)*
Frend, W. H. C., DPhil *Oxon*, MA *Oxon & Camb*, FSA, *U Lectr (Div)*
Tabor, D, ScD, *U Lectr (Phys)*
Dawe, R D, MA
Whelan, M J, MA PhD, *U Demr (Phys)*
Stopp, F J, MBE, PhD *Lond.*, MA, *Sr Tutor, U Lectr (German)*
McKendrick, N., MA, *U Asst Lectr (Hist.)*
Farrell, M J, MA *Oxon & Camb*, *U Lectr (Econ)*
Macpherson, W J, MA *Aberd*, PhD, *Tutor, U Lectr (Econ.)*
Davie, D A, MA PhD, *U Lectr (Engl)*
Sealy, L S, MA LLB *N Z*, PhD, *Tutor, U Lectr (Law)*
Chappell, J B, MA PhD, *U Demr (Biochem)*
Davey, K G, PhD
Wood, M D, MA PhD, *U Lectr. (Engin)*
Goodhart, C. B, MA PhD, *Tutor, U Lectr (Zool)*, *Curator of Invertebrates, Museum of Zool*
Tranchell, P A, MA MusB, *Coll Dir. of Music, U Lectr (Music)*

Lampe, G W H, MC, Hon DD *Edin*, DD
Oxon. & Camb, *Ely Prof (Dow)*
 Hamlin, F R, BA PhD *Bhm*, MA
 Quinn, C P, BA

Henry, R F, BSc *Edin*, PhD
 Fitzsimons, J T, MA PhD MB BChir, U *Demr*
 (Physiol)
 Baines, A J L, BA

JESUS COLLEGE

Founded in 1496 by John Alcock, Bishop of Ely Junior members in residence (1960-61), 421.
 Telephone. Cambridge 57536

Master—D. L. Page, MA *Oxon. & Camb.*, LittD, FBA, *Regius Prof. of Greek*

Fellows
 Elliott, C A, OBE, MA
 Pars, L A., MA, *President*
 Gardner-Smith, Rev P, BD
 Thorpe, W H, ScD, FRS, *Reader (Animal Behaviour)*
 Tillyard, E M W, OBE, LittD, FBA, FRSL
 Guy, O. V., CBE, DSO, MC, MA
 Brittan, F., LittD, *Prælector, Keeper of the Records*
 Wilson, C H, MA, U *Lectr (Hist)*
 Percival, A. L., MA, U *Lectr (Engin)*
 Jennings, R Y., MA LLB, *Whewell Prof. (International Law)*
 Picken, L. E. R., ScD, *Asst. Tutor, Asst. Dir of Res. (Zool)*
 Fisher, D J V., MA, *Sr Tutor, U. Lectr. (Hist)*
 Taunt, D. R., MA PhD, *Tutor, U. Lectr. (Maths.)*
 Beveridge, W I B, DVSc Syd, MA, *Prof. (Animal Pathol)*
 Sharpe, A G., MA PhD, *Tutor, U. Lectr. (Chem.)*
 Creswick, H R, MA *Oxon & Camb*, U *Librarian*
 Roberts, G F, MD, *Bursar, U. Lectr. (Pathol)*
 Jones, A H M, MA *Oxon & Camb*, FBA, FSA, *Prof. (Anc Hist)*

Dart, R T., BA *Lond.*, MA, *Asst Tutor, U Lectr (Music)*
 Williams, G L, LL.D, FBA, *Reader (Engl Law)*
 Bailey, D R S, LittD, FBA, U *Lectr (Tibetan)*
 Jones, T D, MA, U *Lectr (German)*
 Martin, Sir J Leslie, PhD *Mane*, MA *Mane & Camb*, FRIBA, *Prof. (Archit)*
 Finley, M I, PhD Col, MA, *Librarian, U. Lectr (Classics)*
 Johnson, K. L., MSc *Mane*, MA, U *Lectr. (Engin)*
 Towers, B, MB ChB *Liv*, MA, *Steward, U. Lectr (Anat)*
 Adkins, C J, MA PhD
 McKie, D, MA, U *Demr (Mineral & Petrol)*
 Baelz, Rev P R, MA, *Dean*
 Bush, B M H, MSc Rhodes, PhD
 Frankel, J, BA
 Cowling, M J, MA, U *Asst Lectr (Hist)*
 Austin, L J, DUParis, MA, U *Lectr (French)*
 Williams, R H, MA, U *Lectr (Engl)*
 Gibbs, A C, BA
 Gombrich, E H J, MA *Oxon.*, PhD *Vienna*, FBA, *Slade Prof (Fine Art)*

KING'S COLLEGE

Founded in 1441 by King Henry VI Under the founder's statutes, which remained in force until 1861, every vacancy had to be at once filled by the admission of a scholar from the sister foundation of King Henry VI at Eton In 1861 provision was made for the admission of undergraduates other than scholars of Eton Junior members in residence (1960-61), 415 Telephone Cambridge 50411.

Provost—N. G. Annan, OBE, MA, U *Lectr (Econ)*

Fellows
 Sheppard, Sir John T, MBE, Hon LittD *Mane*, *Melb & N.Z.*, Hon. LL.D *St. And*, MA
 Adeock, Sir Frank E, OBE, Hon. DLitt *Durh*, Hon. LittD *Dub. & Mane*, MA LittD, FBA
 Gray, Sir James, CBE, MC, Hon. DSc *Mane*, DSc *Aberd*, ScD, FRS
 Milner-White, Very Rev. E, CBE, DSO, MA
 McCombie, H., DSO, MC, MA *Aberd.*, ScD, FRIC
 Turner, L B, ScD
 Durnford, H. G. E, MC, MA
 Lucas, F L., OBE, MA, *Reader (Engl)*
 Ord, B., CBE, MA MusB Hon MusD, FRCO

Scholfield, A F, MA
 Braithwaite, R. B, MA, FBA, *Knightbridge Prof. (Moral Philos)*
 Stockdale, D, ScD, FRIC
 Hall, P, MA, FRS, *Sadlerian Prof. (Pure Maths.)*
 Rylands, G H W, CBE, MA, U *Lectr. (Engl)*
 Matthews, Sir Bryan H C, CBE, ScD, FRS, *Prof (Physiol)*
 Lucas, D W., MA, U *Lectr & P M Laurence Reader (Classics)*
 Ingham, A. E, MA, FRS, *Reader (Mathl Analysis)*
 Kahn, R. F, CBE, MA, FBA, *Prof. (Econ.)*
 Morris, G. C, MA, U *Lectr. (Hist)*

- Saltmarsh, J. MA, FSA, *U Lectr (Hist.)*
 Wilkinson, L. P. MA, FRSL, *Vice-Provost, U Orator, U Lectr (Classics)*
 Salt, G., BSc *Alta*, ScD *Harv & Camb*, FRS, *U Lectr (Zool)*
 Shire, E. S., MA, *Reader (Phys.)*
 Dixon, K. C., MD, *U Lectr. (Chem. Pathol.)*
 Fox, T. R. C., MA, *U Lectr (Engin.)*
 Macpherson, R. E., MA, *Bursar*
 Stone, J. R. N., CBE, ScD, FBA, *P. D. Leake Prof (Finance & Accounting)*
 Moullin, E. B., MA *Oxon*, ScD, MIEE
 Dykes, P. de K., PhD *Stan*, MA, *U Lectr (Engin.)*
 Trevelyan, C. H., MA, *U Lectr (German)*
 Hibbert, A. B., MA, *U Lectr (Hist.)*
 Parry, D. A., BSc *Brist*, PhD, *Tutor for admissions & Financial Tutor, U Lectr (Zool)*
 Raven, J. E., MA, *Sr Tutor, U Lectr (Classics)*
 Radcliffe, P. F., MA MusB, *U Lectr (Music)*
 Munby, A. N. L., MA, *Librarian*
 Hill, M. N., MA PhD, *Asst Dir of Res. (Geodesy & Geophys.)*
 Kaldor, N., BSc *Lond*, MA, *Reader (Econ)*
 Cole, L. B., MD, FRCP, *Dean of postgrad med. sch., U Assoc Lectr. (Physic)*
 Dixon, M., ScD, FRS, *Reader (Enzyme Biochem.)*
 Portes, M., PhD *Lond*, MA *Oxon & Camb.*, *Wilham Wyse Prof (Soc Anthropol)*
 Marris, R. L., MA, *U Lectr (Econ & Pol)*
 Jaffé, A. M., MA
 Dixon, H. B. F., MA PhD, *U Lectr (Biochem.)*
 Brown, D. M., BSc *Glas*, PhD, *Lectr (Org & Inorg Chem)*
 Sanger, F., BA PhD, FRS
 Haskell, F. J. H., MA, *Librarian, Fine Arts Fac Library*
 Barlow, H. B., MA MB BChir, *Asst. Dir of Res. (Physiol)*
 Zangwill, O. L., MA *Oxon. & Camb*, *Prof (Exper. Psychol.)*
 Brooke Benjamin, T., BEng *Lav*, MEng *Yale*, PhD, *Sr Asst in Res (Engin.)*
 Griffith, J. S., MA
 Slater, C. E. L., DSO, MA, *Bursar*
 Rose, J. A., MA, *Pro-Professor*
 Cargill Thompson, W. D. J., MA PhD, *Dean*
 Bolgar, R. R., MA PhD
 Vidler, Rev A. R., DD *Edin*, LittD BD, *Dean, U Lectr (Dro.)*
 Broadbent, J. B., MA *Edin*, PhD, *U Asst Lectr. (Engl.)*
 Lloyd, G. E. R., MA PhD, *Prælector*
 Exton, J. A., MA MusB
 Zaman, J. M., DPhil *Oxon*, MA *Oxon. & Camb*, *Tutor (Advanced Students), U Lectr (Phys.)*
 Willcocks, D. V., MC, MA MusB, FRCo, *U Organist, U Lectr (Music)*
 Giangrande, G., PhD
 Parnis, A. E. L., BSc(Econ) *Lond*, MA
 Williamson, J. H., MA *Edin*, PhD, *U Lectr. (Maths)*
 Brenner, S., MSc MB BChir *Rand*, DPhil *Oxon*, PhD
 Brindley, G. S., MD, *U Lectr (Physiol)*
 Goldthoipe, J. H., BA *Lond*, *U. Asst. Lectr (Econ)*
 Polack, K., MA LLB, *Asst Tutor*
 Turner, J. J., MA PhD
 Hamer, N. K., MA PhD
 Matthews, D. H., MA
 Ingham, M. F., MA PhD
 Shils, E., MA
 Huxley, H. E., MBE, MA PhD, FRS
 Pasinetti, L. L., DEcon *Milan*, *U. Asst Lectr. (Econ)*

MAGDALENE COLLEGE

Founded in 1542 by Thomas, Baron Audley of Walden Junior members in residence,
 (1960-61), 306 Telephone Cambridge 59457.

Master—The Rt Hon Sir Henry U Willink, MC, QC, Hon LLD *Lav & Melb*, MA

Fellows

- Salter, F. R., OBE, MA
 Morehead, Sir Owen F., GCVO, DSO, MC, CG, MA
 King, W. B. R., OBE, MC, Hon. LittD *Harv*, ScD, FRS
 Richards, I. A., LittD
 Turner, F. McD. C., MC, DFC, MA, *President, Coll Librarian*
 Scott, F. R. F., MA, *Tutor*
 Babbage, D. W., OBE, MA PhD, *Tutor, U Lectr. (Maths.)*
 Saunders, B. C., ScD, *Prælector, U Lectr. (Org. & Inorg Chem)*
 Bennett, R. F., MA, *Tutor, U Lectr (Hist.)*
 Ledborough, R. W., MA PhD, *Dean, Pepsysian Librarian, U Lectr. (French)*
 Burnet, J. F., MA, *Bursar, Steward*
 Stevens, J. E., MA PhD, *Tutor, U Lectr. (Engl.)*
 Hughes, G. M., MA PhD, *U Lectr (Zool)*
 Pugh, L. P., BSc *Lond*, MA, FRCVS, *Prof (Vet Clin. Studies)*
 Lewis, C. S., Hon DD *St And*, Hon DèsL *Laval*, Hon LittD *Manc.*, MA *Oxon & Camb.*, FBA, FRSL, *Prof (Medæw & Renaissance Engl.)*
 Dias, R. W. M., MA LLB, *U Lectr (Law)*
 Roberts, D. W., MA, *U Lectr. (Archit.)*
 Jaeger, L. G., PhD *Lond*, MA, *U Lectr (Engin.)*
 Grubb, P. J., MA, *U Dem (Bot)*

PEMBROKE COLLEGE

Founded in 1347 as the Hall of Valence-Mary by Mary de St Paul, widow of Aymar de Valence, Earl of Pembroke Henry VI was a liberal benefactor, and obtained the name of second Founder. Junior members in residence (1960-61), 438 Telephone Cambridge 52241

Master—Sir William Hodge, Hon DSc Brist, Exe, Leic, Liv, Sheff & Wales,
Hon LLD MA Edin, ScD, FRSE, Lowndean Prof of Astron & Geom

Fellows

Roberts, Sir Sydney C., Hon. LLD St And, MA, FRSL
Pennell, V. C., MA MB BChir, FRCS
King, B E., MA LLB, U. Lectr (Law)
Camps, W. A., MA, Tutor, U Lectr. (Classics)
Rowe, J. W F., MC, MSc Lond, MA
Willey, B., Hon LittD Manc., MA, FBA, FRSL, President, King Edward VII Prof (Engl Lit)
Dewey, Rev M B, MA, Asst Tutor, Dean
Stoneley, R., ScD, FRSE
Hutton, W S, MA, Asst Tutor, Treasurer & Bursar
Arberry, A J., LittD, FBA, Sir T. Adams's Prof. (Arabic)
Combe, T G S., DUBordeaux, MA Edin. & Camb, U Lectr (French)
Hodgart, M J C., MA, Librarian, U Lectr. (Engl)
Joslin, D. M., MA, Asst. Tutor, U Lectr (Hist)
Smith, G C., MA, Asst. Tutor, U Lectr. (Metall)

Lyons, M C., MA PhD, U Lectr. (Arabic)
Vinen, W. F., MA PhD, U Demr (Phys)
Grimstone, A. V., MA PhD, Asst in Res (Zool)
Danczkewitz, P. V., GC, MBE, MSc MIT, MA Oxon & Camb, Shell Prof of Chem Engin
Sutton, E. P., MA Oxon & Camb, Asst. Tutor, Tutorial Bursar, U Lectr. (Engin)
Leckie, F. A., BSc St And, PhD Stan, MA, Asst Tutor, U Lectr (Engin)
Dunham, J., MA
Ambler, R. P., MA PhD
Posner, M V., MA Oxon & Camb., U Asst Lectr (Econ)
Dougherty, J. P., MA, U Asst. Lectr (Appl Maths)
Jack, I. R. J., MA Edin. & Oxon., DPhil Oxon, U Lectr (Engl)
Woolf, S. J., MA DPhil Oxon
Corcoran, D. W. J., BSc Hull
Kingman, J. F. C., BA

PETERHOUSE

Founded in 1284 by Hugo de Balsham, Bishop of Ely Junior members in residence, (1960-61), 258 Telephone Cambridge 50256.

Master—H Butterfield, Hon DLit Belf, Hon LLD Aberd, Hon DLitt NUI,
Hon LittD Harv & Col, MA, Prof. of Mod Hist

Fellows

Burkitt, J. C., ScD, FRSE, Reader (Mathl. Analysis)
Postan, M. M., MSc Lond, MA, FBA, Prof (Econ. Hist)
Wormald, B. H. G., MA, Tutor, U Lectr (Hist)
Brogan, D. W., MA Glas, Oxon & Camb., FBA, Prof (Pol. Sci)
Knowles, Rev M C., Hon DLitt Oxon & Brist, LittD, FBA, FSA, Regius Prof (Mod. Hist)
Sanders, Rev J. N., MA, Dean, Bursar, U Lectr. (Div)
Kendrew, J. C., MA PhD, FRSE
Mack Smith, D., MA, U Lectr. (Hist)
Clark, J. G. D., ScD, FBA, Disney Prof. (Archaeol.)
Hinton, R. W. K., MA PhD, Ward Librarian, U Asst Lectr. (Hist)
Kenney, E. J., MA, Tutor, Perne Librarian, U Lectr (Classics)

Heyman, J., MA PhD, U Lectr (Engin)
Goodwin, R. M., PhD Harv, BA BLitt Oxon, MA Harv & Camb, Steward, Girdlers' Lectr (Econ)
Oigel, L. E., DPhil Oxon, MA, Asst. Dir. of Res. (Theoret. Chem.)
Taylor, D. B. C., PhD Belf, MA, Tutor, U Lectr (Engin)
Wrigley, E. A., MA PhD, Domestic Bursar, Praelector, U Lectr (Geog.)
Calladine, C. R., MA, U Demr (Engin)
Whitby, L. G., MD, U Biochemist to Addenbrooke's Hosp
Taylor, J. C., MA PhD, U Lectr (Appl Maths)
Amis, K. W., MA Oxon
Croft, H. T., PhD
Skaer, R. J., BA
Thompson, J. M. T., BA

QUEENS' COLLEGE

Founded in 1448 by Queen Margaret of Anjou, consort of King Henry VI, and refounded in 1465 by Elizabeth Widville, consort of King Edward IV. Junior members in residence (1960-61), 440. Telephone Cambridge 50425.

President—A. L. Armitage, MA LLB, U. Lectr. (Law)

Fellows

Laffan, R. G. D., MA Oxon & Camb.
 Sleeman, C. M., MA
 Browne, A. D., MA, Vice-President
 Maxwell, E. A., MA PhD, Sr Bursar, Keeper of the College Records
 Ramsay, J. A., MBE, MA PhD, FRS, Reader (Compar. Physiol.)
 Hart, Rev. H. St. J., BD, Dean, U. Lectr. (Div.)
 Bailey, Sir Harold W., DPhil Oxon, MA Oxon, W. Aust. & Camb. FBA, Prof. (Sanskrit)
 Kirkaldy, H. S., CBE, LLB Edin, MA, Montague Burton Prof. (Industrial Relations)
 Parmée, D., MA, Steward, U. Lectr. (French)
 Deakin, C. S., MA, Jr. Bursar, U. Lectr. (Engn.)
 Hagenbuch, W., BA Manc., MA, Sr Tutor, U. Lectr. (Econ.)

Wilson, G. P., MA LLB, Praelector, U. Lectr. (Law)

Holloway, J., D Litt Aberd., DPhil Oxon, MA Oxon & Camb., FRSL, U. Lectr. (Engl.)

Mathias, P., MA, Tutor, U. Lectr. (Hist.)

Baldwin, J. E., MA PhD, U. Demr. (Phys.)

Bull, M. M., MD, Tutor, U. Lectr. (Anat.)

Sugden, T. M., MA PhD, Reader (Phys. Chem.)

Cohen, H., PhD Durh., MA, Tutor for Res. Students, U. Lectr. (Engn.)

Bossy, J. A., MA PhD

Rowell, C. H. F., MA PhD

Radley, D. E., MA, U. Demr. (Engn.)

Goodyear, F. R. D., MA PhD, Librarian

Bowett, D. W., PhD Manc., MA LLB, Tutor, U. Lectr. (Law)

Spearing, A. C., MA, U. Asst. Lectr. (Engl.)

ST. CATHARINE'S COLLEGE

Founded in 1473 by Robert Wodelarke, Chancellor of the University and Provost of King's College. Junior members in residence (1960-61), 431. Telephone Cambridge 59445

Master—E. E. Rich, MA, Vere Harmsworth Prof. of Imperial & Naval Hist.

Fellows

Steers, J. A., MA, Prof. (Geog.)
 Henn, T. R., CBE, MA, President, U. Lectr. (Poetry & Drama)
 Waddams, Rev. Canon C. D., BSc Lond., MA, Sr Tutor, Hon. Chaplain
 Smith, S., MA PhD, Steward, U. Lectr. (Zool.)
 Aston, S. C., MA PhD, U. Lectr. (French)
 Thomas, D. W., MA Oxon. & Camb., Regius Prof. (Hebrew)
 Evans, R. C., MA PhD, Tutor, U. Lectr. (Mineral.)
 Gooderson, R. N., MA, Tutor, U. Lectr. (Law)
 Berrill, K. E., BSc Lond., MA, Estates Bursar, U. Lectr. (Econ.)

Caesar, A. A. L., MA, Tutor, U. Lectr. (Geog.)

Lacey, W. K., MA, U. Lectr. (Classics)

Comline, R. S., MA PhD, Praelector, U. Lectr. (Vet. Physiol.)

MacDonagh, O. O. G. M., MA PhD, Librarian, U. Asst. Lectr. (Hist.)

Topsfield, L. T., MA PhD, Domestic Bursar, U. Lectr. (Provençal & French)

Robinson, F. D., MA, Dean, U. Lectr. (Engn.)

Le Huray, P. G., MA PhD MusB, U. Asst. Lectr. (Music)

Maddock, A. G., PhD Lond., ScD, U. Lectr. (Chem.)

Murphy, T. G., MA PhD, Res. Fellow (Maths.)

Shakeshaft, J. R., MA PhD, U. Demr. (Phys.)

ST. JOHN'S COLLEGE

Founded in 1511 by the Lady Margaret, Countess of Richmond and Derby and mother of King Henry VII, in place of the Hospital of St. John, founded about 1135. The foundress died before her designs were completed, and sufficient funds were only obtained by the exertions and beneficence of her executor, John Fisher, Bishop of Rochester and Chancellor of the University. Junior members in residence (1960-61), 702. Telephone Cambridge 58741

Master—Rev. J. S. Boys Smith, MA

Fellows

Cunningham, E., MA
 Jeffreys, Sir Harold, DSc Durh., MA, FRS
 Palmer, W. G., DSc Lond., ScD
 Bartlett, Sir Frederic C., CBE, MA, FRS
 Engledow, Sir Frank L., CMG, MA, FRS
 White, F. P., MA
 Briggs, G. E., DSc Lond., MA, FRS, President

Wordie, Sir James M., CBE, MA

Guillebaud, C. W., CBE, MA

Dirac, P. A. M., BSc Brnt., PhD, FRS, Lucasian Prof. (Maths.)

Howland, R. L., MA, Sr Tutor, U. Lectr. (Classics)

Bailey, S. J., LL.D., Rouse Ball Prof. (Engl. Law)

- Hollick, F. S. J., MA PhD, *U. Lectr. (Zool.)*
 Davies, H. S., MA, *U. Lectr. (Engl.)*
 Walker, E. A., MA Oxon., *Cape & Camb*
 Harris, H. A., DSc MD Lond., MA
 Smithies, F., BA PhD, *U. Cayley Lectr. (Maths.)*
 Jopson, N. B., MA
 Evans, G. C., MA PhD, *Bldgs Bursar, U. Lectr. (Bot.)*
 Daniel, G. E., MA PhD, *U. Lectr. (Archæol.)*
 Hoyle, F., MA, FRS, *Plumian Prof. (Astron. & Exper. Philos.)*
 Miller, E., MA, *U. Lectr. (Hist.)*, *Warden of Madingley Hall*
 Rhoden, H. G., MA, *Reader (Engin.)*
 Scott, K., MA LLB, *U. Lectr. (Law)*
 Mitchell, J. S., CBE, Hon DSc Birm., MD, FRS, FFR, MRCP, *Regius Prof. (Physic)*
 Hinsley, F. H., MA, *Tutor, U. Lectr. (Hist.)*
 Lee, A. G., MA, *Librarian, U. Lectr. (Classics)*
 Bertram, G. C. L., MA PhD, *Tutor*
 Thistlethwaite, F., MA, *U. Lectr. (Econ.)*
 Mordell, L. J., MSc Manc., MA, FRS
 Jackson, R. M., LL.D., *Reader (Pub. Law & Admin.)*
 Redman, R. O., MA PhD, FRS, *Prof. (Astrophys.)*
 Budden, K. G., MA PhD, *U. Lectr. (Phys.)*
 Brookes, A. M. P., MA, Jr. *Bursar, U. Lectr. (Engin.)*
 Farmer, B. H., MA, *U. Lectr. (Geog.)*
 Gale, E. F., ScD, FRS, *Prof. (Chem. Microbiol.)*
 Lyttleton, R. A., MA PhD, FRS, *Reader (Theoret. Astron.)*
 Wilkes, M. V., MA PhD, FRS, *Dir. of Mathl. Lab.*
 Ratcliff, Rev. E. C., MA Oxon. & Camb., *Regius Prof. (Div.)*
 Bambrrough, J. R., MA, *Tutor, U. Asst. Lectr. (Classics)*
 Matthews, R. C. O., MA Oxon. & Camb., *U. Lectr. (Econ.)*
 Crook, J. A., MA, *Tutor, U. Lectr. (Classics)*
 Bruford, W. H., Hon LL.D. Aberd., MA
 Bezzant, Rev. J. S., MA Oxon., BD Oxon., & Camb., *Dean, U. Lectr. (Div.)*
 Hanley, F., MA, *Reader (Crop Husbandry)*
 Robinson, R. E., MA PhD, *Tutor, U. Lectr. (Hist.)*
 Kipping, F. B., MA PhD, *U. Lectr. (Org. & Inorg. Chem.)*
 Mansergh, P. N. S., OBE, BLitt MA DPhil Oxon., PhD, *Smuts Prof. (Hist. of British Commonwealth)*
 Campbell, F. W., PhD MB ChB Glas., MA, *U. Lectr. (Physiol.)*
 Stern, J. P., MA PhD, *U. Lectr. (German)*
 Hall, J. C., MA LLB, *Tutor, U. Lectr. (Law)*
 James, E. D., MA PhD, *U. Lectr. (French)*
 Guest, G. H., MA MusB, *Oigamst, U. Lectr. (Music)*
 Welford, Rev. A. T., MA, *Tutor, U. Lectr. (Exper. Psychol.)*
 Hutchinson, Sir Joseph B., CMG, ScD, FRS *Drapers Prof. (Agric.)*
 Mestel, L., BA PhD, *U. Lectr. (Appl. Maths.)*
 Barrère, J. B. M., Dèsl. Paris, MA, *Prof. (French Lit.)*
 Silbeiston, Z. A., MA, *U. Lectr. (Econ.)*
 Hinde, R. A., DPhil Oxon., MA Oxon. & Camb., *Tutor, Asst. Dir. of Res. (Zool.)*
 Parsons, P. A., BAgSc Adel., PhD, *U. Demr. (Genetics)*
 Pitman, M. G., MA PhD, *U. Demr. (Bot.)*
 Millen, J. W., MD Belf., MA, *Reader (Anat.)*
 Davies, J. G. W., MA, *Sec., Univ. Appts. Bd., Pro-Professor*
 Henry, N. F. M., MA BSc Aberd., PhD, *Prælector, U. Lectr. (Mineral & Petrol.)*
 Smith, C. L., MBE, MA PhD, *Asst. Dir. of Res. (Radiotherapeutics)*
 Whitmore, T. C., MA PhD
 Cowley, M. D., BA PhD, *Sr. Asst. in Res. (Engin.)*
 Thomas, T. C., MA LLB, *Sr. Bursar*
 Pascoe, K. J., MA, *U. Lectr. (Engin.)*
 Northcote, D. H., PhD Lond., MA, *U. Lectr. (Biochem.)*
 Prince, R. H., PhD Lond., MA, *U. Demr. (Chem.)*
 Lockwood, D., BSc(Econ) PhD Lond., MA, *U. Lectr. (Econ.)*
 Goody, J. R., MA PhD, *U. Lectr. (Anthropol.)*
 Smith, C. T., MA, *U. Lectr. (Geog.)*
 Watson, G. G., MA Oxon. & Camb., *U. Asst. Lectr. (Engl.)*
 Nuttall, J., MA
 Wood, M. G., BA
 Vita-Finzi, C., BA
 Landshoff, P. V., BA
 Renton, J. D.
 Deer, W. A., MSc Manc., PhD, *Prof. (Mineral & Petrol.)*
 Friedlander, F. G., BA PhD, *U. Lectr. (Appl. Math.)*
 Ringrose, J. R., BSc Lond., MA PhD, *U. Lectr. (Maths.)*
 Ross, A., MC & Bar, MA N Z., PhD

SELWYN COLLEGE

Founded in 1882 in memory of George Augustus Selwyn, Bishop of New Zealand (1841-67) and Lichfield (1868-78), to provide a university education for young men in accordance with the principles of the Church of England. Junior members in residence (1960-61), 328. Telephone: Cambridge 50407

Master—Rev. W. O. Chadwick, DD, *Dixie Prof. of Eccles. Hist.*

Fellows
 Williams, W. N., MA LLB
 Perrett, G. B., MA

Durrant, P. J., MA PhD, *Vice-Master, Sr. Tutor*
 Sartain, W. J., MA, *Sec. General of the Facs*
 Chase, Rt. Rev. G. A., MC, MA Hon DD

St Joseph, J K. S., MA PhD, FSA, *Librarian*,
Asst Tutor, Curator in Aerial Photography
 Spear, T. G. P., OBE MA PhD, *Bursar &*
Steward
 Cott, H. B., DSc Glas, ScD, *U. Lectr. (Zool)*
 Brock, W. R., MA PhD, *Tutor for Advanced*
Students, U. Lectr. (American Hist)
 Telfer, Rev W, MC, DD
 Foister, L. W., DrPhil Basle, MA, *Scholar Prof*
(German)
 Auty, R., DrPhil Mun., MA, *U. Lectr. (Slavonic*
Studies)
 Winny, J., MA, *Dean, U. Asst Lectr. (Engl.)*
 Nicholson, H. H., MBE, MA
 Melville, P. C., MA Oxon. & Camb, *Dep*
Registrar

Welbourn, D. B., MA, MIMechE, *U. Lectr.*
(Engin)
 Hardy, Rev D P, MA, *Tutor for admissions*
 Harrison, D., MA PhD, FRIC, *Asst Tutor*,
Prælector, U. Lectr. (Chem Engin)
 Plumley, Rev. J. M., BA MLitt Durh, MA,
H Thompson Prof. (Egyptol)
 Sweet, Rev. J. P. M., MA Oxon & Camb.,
Chaplain & Precentor, U. Asst Lectr. (Div.)
 Ford, E. H. R., MD, *U. Lectr. (Anat)*
 Johnson, R. P., MA, *U. Lectr. (Engin)*
 Porter, H. C., MA PhD, *U. Asst Lectr. (Hist)*
 Griffiths, R. M., MA
 Watts-Tobin, R. J., MA PhD

SIDNEY SUSSEX COLLEGE

Founded in 1596 under the will of the Lady Frances Sidney, Countess Dowager of Sussex, by virtue of a charter granted by Queen Elizabeth in 1594 to Henry, Earl of Kent, and Sir John Harrington, her executors. Junior members in residence (1960-61), 270 Telephone: Cambridge 59427.

Master—D Thomson, MA PhD, *U. Lectr. (Hist)*

Fellows
 Knox-Shaw, T., CBE, MC, MA
 Smith, Rev. B. T. D., DD
 Davenport, A. H., MC, MA
 Green, H. L. H. H., MD, *U. Lectr. (Anat.)*
 Robinson, E. A. G., CMG, OBE, MA, FBA,
Prof. (Econ)
 Angus, R. H., MA, *Bursar, U. Lectr. (Engin)*
 McCance, R. A., CBE, MD, FRCP, FRS, *Prof*
(Exper Med)
 Bulman, O. M. B., PhD Lond, ScD, FRS, FGS,
Vice-Master, Woodwardian Prof. (Geol)
 Emelius, H. J., CBE, DSc Lond, MA, FRS, *Prof*
(Inorg Chem)
 Smail, R. C., MBE, MA PhD, *Coll Librarian*,
U. Lectr. (Hist.)
 Thornely, J. W. A., MA, *U. Lectr. (Law)*

Agai, J. N., MA PhD, *U. Lectr. (Phys. Chem)*
 Roy, A. D., MA, *Tutor, U. Lectr. (Econ)*
 Clemmow, P. C., MA PhD, *U. Lectr. (Theoret*
Electrodynamics & Radio)
 Wilcock, M. M., MA, *Tutor, U. Asst Lectr*
(Classics)
 Switzer, J. F. Q., MA, *Sr Bursar, U. Lectr*
(Estate Management)
 Smith, K. F., MA PhD, *U. Lectr. (Phys)*
 Beales, D. E. D., MA PhD, *Tutor & Dean*
 Cornei, E. J. H., MA, FRS, *Reader (Plant*
Taxon.)
 Vickers, T., MA PhD, *Steward, U. Lectr.*
(Physiol)
 Charlton, T. M., BSc Lond., MA, *Taylor Librarian*,
U. Lectr. (Engin.)
 Salway, P., MA PhD, FSA, *Prælector*

TRINITY COLLEGE

Founded in 1546 by King Henry VIII by the consolidation and extension of Michaelhouse, founded in 1324, and King's Hall, founded in 1337 Junior members in residence (1960-61), 840 Telephone Cambridge 58201

Master—The Rt Hon Lord Adrian, OM, Hon. DSc Penn, Oxon, *Harv, Lyons, Lond, Manc., Durh, Johns H., Belf, Wales, N Y, Sheff, Hull, Brant, Bologna, Paph., Paris & Leic*, Hon LLD McG, *St And, Glas., Luv, Dal & Edin*, Hon MD Brussels, *Lowman & Montb.*, MD, FRS, FRCP

Fellows
 Trevelyan, G. M., OM, CBE, Hon DCL Oxon.,
 Hon LLD *St And, Edin, Sheff & Luv*,
 Hon DLit Lond, Hon LittD *Harv, Yale,*
Manc, Durh, Nott, Turin & Camb, MA,
 FRS, FBA
 Littlewood, J. E., Hon LLD *St And*, Hon DSc
 Luv., MA, FRS
 Hollond, H. A., DSO, OBE, MA LL.M.
 Robertson, D. S., Hon DLit *Durh.*, Hon LLD
 Glas., Hon DPhil *Athens*, MA, FBA

Simpson, Rev. F. A., MA
 Butler, Sir James R. M., MVO, OBE, MA
 Burnaby, Rev J, BD
 Taylor, Sir Geoffrey I., MC, DSc Oxon, MA
 Hon. ScD, FRS
 Nicholas, T. C., OBE, MC, MA
 Kitson Clark, G. S. R., Hon DLit *Durh & LittD*,
Reader (Cont Hist)
 Broad, C. D., LittD, FBA
 Roughton, F. J. W., MA PhD, FRS, *J. H Plum-*
mer Prof. (Colloid Sci)

- Dean, W. R., MA
 Gow, A. S. F., MA, FBA
 Duff, P. W., MA, *Vice-Master, Regius Prof (Civil Law)*
 Rattenbury, R. M., MA, *U Registrar*
 Sandbach, F. H., MA, *U Lectr & Brereton Reader (Classics)*
 Pantin, C. F. A., ScD, FRS, *Prof (Zool.)*
 Evennett, H. O., MA, *U Lectr (Hist)*
 Knight, A. H. J., MA, *Reader (German)*
 Besicovitch, A. S., DSc Lond., MA, FRS
 Mann, F. G., DSc Lond., ScD, FRS, FRIC, *Reader (Org Chem)*
 Black, M., MA, *U Lectr (Geol)*
 Hanson, C. J., MA LL.M., *Prof (Compar Law)*
 Wisdom, A. J. T. D., MA, *Prof (Philos)*
 Hodgkin, A. L., MA ScD, FRS, *Royal Society Prof.*
 Bragg, Sir W. Lawrence, MC, OBE, Hon ScD Dub., Hon DSc Leeds, Manc., Lisbon, Paris, Brussels, Liège & Durh., PhD Cologne, Hon. LLD St. And., MA, FRS, FIP
 Rushton, W. A. H., ScD, FRS, *Reader (Physiol)*
 Vyvyan, J. M. K., MA, *Tutor*
 Staffin, P., MA, *Asst Dir of Res (Econ.)*
 Pryor, M. G. M., MA PhD, *Sr Tutor, U Lectr (Zool)*
 Russell, Earl, OM, MA, FRS, FBA
 Robertson, Sir Dennis H., CMG, Hon DComm Amst., Hon. LittD Harv., Durh. & Manc., Hon D'Econ Louvain, Hon DSc Econ Lond., Hon DHL Col., MA, FBA
 Binnie, A. M., MA, FRS, *Reader (Engin)*
 Harmer, L. C., LsL. Bordeaux, MA PhD, *Drapers Prof (French)*
 Ashmead, J., MA PhD, *U. Lectr. (Phys)*
 Oatley, C. W., MA, *Prof (Electr. Engin)*
 Winter, C., MA, *Dir., Fitzwilliam Museum*
 Fox, E. N., ScD, *Reader (Engin)*
 Browne, B. C., MA, *Reader (Exper Geophys)*
 Bradfield, J. R. G., MA PhD, *Sr Bursar, Sec. of Council*
 Frisch, O. R., OBE, DSc DPhil Vienna, MA, FRS, *Jacksonian Prof (Nat. Philos)*
 Bailey, K., ScD, FRS, *Reader (Biochem.)*
 Dobb, M. H., MA, *Reader (Econ)*
 Gallagher, J., MA, *Dean, U Lectr (Colonial Studies)*
 Radzinowicz, L., LLD, *Wolfson Prof (Criminol), Dir, Inst of Criminol*
 Cassels, J. W. S., MA Edin., PhD, *U Lectr (Maths)*
 Green, D. H., MA, *Praelector, U Lectr (German)*
 Ryle, M., MA, FRS, *Prof (Radio Astron)*
 Nockolds, S. R., BSc Manc., PhD, FRS, *Reader (Geochem)*
 Redpath, R. T. H., MA PhD, *Tutor, U Lectr (Engl)*
 Hawthorne, W. R., CBE, MA, FRS, FRAES, MIMechE, *Hopkinson & ICI Prof. (Appl Thermodyn)*
 Williams, Rev H. A., MA, *Tutor, Dean of Chapel, U Asst Lectr (Div.)*
 Oates, E. E. D. M., MA
 Batchelor, G. K., MSc Melb., PhD, FRS, *Reader (Fluid Dynamics)*
 Leigh, R. A., BA Lond., MA, *U Lectr. (French)*
 Jolowicz, J. A., MA LL.B., *U Lectr (Law)*
 Kei, A., MA Oxon. & Camb., *Tutor, U Lectr (Classics)*
 Laslett, T. P. R., MA, *U Lectr (Hist.)*
 Lauterpacht, E., MA LL.B., *U Lectr (Law)*
 Elliott, J. H., MA PhD, *U Asst Lectr (Hist)*
 Polkinghorne, J. C., MA PhD, *U Lectr (Appl Maths)*
 Swinnerton-Dyer, H. P. F., MA, *U Lectr. (Maths Lab)*
 Lissmann, H. W., MA Hamburg & Camb., FRS, *U Lectr (Zool)*
 Sheppard, N., MA PhD, *Asst. Dir of Res (Spectroscopy)*
 Carr, E. H., CBE, MA, FBA
 Allen, W. S., MA PhD, *Prof (Compar Philol.)*
 Squires, G. L., MA PhD, *U Lectr. (Phys)*
 Robson, R., MA PhD, *Tutor for Advanced Students*
 Glauert, R. H., MA PhD, *Jr. Bursar*
 Davidson, J. F., MA PhD, *Steward, U Lectr. (Chem Engin)*
 Dodwell, C. R., MA PhD, *Librarian*
 Proudman, I., BSc Lev., PhD, *U Lectr (Appl Maths)*
 Leppard, R. J., MA, *Dir of Music, U Lectr (Music)*
 Lockwood, A. P. M., MA PhD
 Wilks, M. J., MA PhD
 Sen, A. K., MA PhD, *U Asst. Lectr (Econ)*
 Shercliff, J. A., MA PhD, *U Lectr (Engin)*
 Easterling, H. J., MA
 Davenport, H., MA Manc., ScD, FRS, *Rouse Ball Prof (Maths)*
 Sander, K. F., BSc Lond., MA PhD, *U Lectr (Engin.)*
 Chinner, G. A., PhD
 McLachlan, A. D., MA PhD
 Howells, I. D., PhD
 Ullmann, W., *JuD Vienna & Innsbruck, LittD, Reader (Medieval Ecclesiastical Instns)*
 Lewy, C., MA PhD, *Stadgwick Lectr (Moral Sci)*
 Champenowne, D. G., MA Oxon. & Camb., *Reader (Econ)*
 Marrian, D. H., MSc Manc., PhD, *Asst Dir of Res (Radiotherapeutics)*
 Funnell, B. M., MA PhD
 Wall, C. T. C., BA PhD, *U Lectr (Maths)*
 Glynn, I. M., MA PhD MB BChir, *U Demr (Physiol)*
 Epstein, D. B. A., BA
 Hunter, C., BA
 Bretherton, F. P., BA
 Cornford, J. P., BA
 Jones, W. J., BA
 Runciman, Hon W. G., BA
 Goldstone, J., MA PhD, *U Lectr (Appl Maths)*
 Moffatt, H. K., BA, *U Asst. Lectr (Appl Maths)*
 Jones, G. H., LL.M. Harv., MA LL.B., *U. Asst Lectr (Law)*

TRINITY HALL

Founded in 1350 by William Bateman, Bishop of Norwich, and especially designed by him for the study of law. This has been recognized by the establishment of law lectureships, law studentships, open scholarships for intending students of law, and foundation scholarships, but members of the college are not restricted to any particular subject of study, and a normal balance of numbers is maintained among all the usual subjects. Junior members in residence (1960-61), 366. Telephone Cambridge 59447.

Master—Sir W Ivor Jennings, KBE, QC, LLD *Lond.*, Hon LLD *Brist.*, *S'ton*, *Ceyl.*, *Leeds & Belf.*, LittD, FBA, *Vice-Chancellor*

Fellows
Crawley, C W, MA, *Vice-Master*, *U Lectr*
(*Hist*)
Turner, J W C, MC, MA LLB
Ellis Lewis, T., BA LLB *Wales*, PhD, *U Lectr.*
(*Law*)
Young, F G, PhD DSc *Lond.*, MA, FRS, FRIC,
Sir W Dunn Prof (*Biochem*)
Storey, G, MA, *Tutor*
Kirk, G S, DSC, MA, FBA, *Reader* (*Greek*)
Crutchley, B, CBE, MA, *Univ Printer*
Cochran, W, PhD *Edin.*, MA, *U Lectr* (*Phys.*)
Frankl, E K, MA, *Asst Tutor*, *U Lectr.* (*Engin*)
Randle, P J, MA PhD MB BChir, *U Lectr*
(*Biochem*)

Brand, C P, MA PhD, *Asst Tutor*, *U Lectr.*
(*Italian*)
Purnell, J H, PhD *Wales & Camb.*, MA, *U*
Lectr (*Phys Chem*)
Adams, J F, MA PhD, *U Asst Lectr* (*Maths*)
Abbott, S E, OBE, MA, *Bursar & Steward*
Bradley, A W., MA LLB, *Librarian*, *U Asst*
Lectr (*Law*)
Jameson, G A, BA
Mann, T R R, ScD, FRS, *Reader* (*Physiol of*
Animal Reproduction)
Nurse, Rev J S, MA PhD, *Dean & Praelector*
Laidlaw, J C, BA

Women's Colleges

GIRTON COLLEGE

Founded in 1869, and obtained a royal charter in 1924. Junior members in residence, (1960-61), 339. Telephone Cambridge 76219.

Mistress—Mary L Cartwright, DPhil *Oxon*, Hon LLD *Edin*, Hon DSc *Leeds & Hull*, ScD, FRS, *Reader* (*Theory of Functions*)

Fellows
Cave-Browne-Cave, Frances E., MA
Clover, Mary, MA
Holland, Mrs Marjorie, PhD *Col.*, MA, *Bursar*,
U Lectr (*Econ.*)
Cam, Helen M., Hon. LLD *Smith*, Hon MA
Harv., MA *Lond.*, LittD, FBA, FRHistS
Bibas, Henriette, MA
McMorran, Helen I., MA, FLA, *Vice-Mistress*,
Librarian & Registrar of the Roll
Lloyd Thomas, M. Gwyneth, MA
Bishop, Ann, DSc *Manc.*, ScD, FRS, *Res Fellow*
Peace-Kathleen M., MA, *Sec*
Bradbrook, Muriel C, LittD, *U Lectr* (*Engl*)
Jeffreys, Lady, MA PhD
Megaw, Helen D., MA PhD, *U Lectr* (*Phys*)
Fairlie, Alison A B, MA DPhil *Oxon*, PhD, *U*
Lectr. (*French*)
Duke, Alison, MA, *Tutor & Praelector*, *U Lectr*
(*Classics*)
Hill, Elizabeth M., PhD *Lond.*, MA, *Prof.*
(*Slavonic Studies*)
de Mourgues, Mme Odette M H L, LèsL
Aix-Marseille, PhD, *U Lectr* (*French*)
Willey, Florence J L, MA, *Jr. Bursar & Clerk of*
Accounts
Gillies, Sheila M., BA *Lond.*, MA, *Tutor &*
Steward
Bennett, Mrs. Joan, MA, *U. Lectr* (*Engl*)

Chibnall, Mrs Marjorie M., MA DPhil *Oxon*,
PhD
Harker, Janet E, MSc *Syd.*, PhD *Manc.*, MA, *U.*
Demr. (*Zool*)
Heard, Mrs Dorothy H, MB BS *Lond.*, PhD,
MRCP, *Sr Asst. in Res* (*Radiotherapeutics*)
Grant, Miss Helen F, MA *Oxon & Camb.*, *U*
Lectr (*Spanish*)
Madge, Mrs Kathleen J, MA, *Res Fellow*
Fell, Honor B, DSc *Edin.*, MA, FRS
Padley, Mrs. Elzbieta M., MA PhD, *Res Fellow*
Kelsey, Christine H, MA PhD, *Res Fellow*, *U*
Demr (*Mineral & Petro*)
MacRobbie, Enid A. C, PhD *Edin*, MA, *Res.*
Fellow
Robinson, Mrs. Judith O, DUPars, MA, *Res*
Fellow
Radzinowicz, Mrs Mary A, PhD *Col.*, MA, *Res*
Fellow
Vogt, Martha L, DrMed DrPhil *Berl.*, PhD,
FRS
Grove, Mrs Jean M., MA PhD
Righter, Mrs. Bobbyann, BA *Bryn Mawr*, PhD,
Res Fellow
Bird, Mrs. Louise J, BA *Sheff.*, MA, *Res Fellow*
Roper, Margaret, BA *Oxon & Camb.*, *Res Fellow*
Markwick, Mrs Amy T, MA *Aberd & Camb.*,
PhD, *Tutor*
Wall, Rachel F, BA *Manc*

NEWNHAM COLLEGE

Founded in 1871 and obtained a royal charter in 1917 Junior members in residence, (1960-61), 349 Telephone Cambridge 52478.

Principal—Ruth L. Cohen, MA, *U Lectr (Econ.)*

Fellows

Chrystal, Edith M., MA, *Registrar of the Roll*
Toynbee, Jocelyn M. C., DPhil Oxon, MA, FSA,

FBA, *Laurence Prof (Class Archaeol)*

Welsford, Enid E. H., MA

Grimshaw, Margaret E., MA, *Bursar, U Lectr (Maths)*

Mitchell, Jean B., MA, *U Lectr. (Geog.)*

Agar, Mrs. Delia M., MA PhD

Wallis, May G., PhD Lond, MA Lond & Camb, *U Lectr (French)*

Edmonds, Sheila M., MA PhD, *Vice-Principal*

Morris, Irene V., MA Belf & Camb, *Tutor*

Burne, Patience, MA Lond & Camb, *Tutor,*

Librarian

Reynolds, Joyce M., MA Oxon & Camb, *U Lectr (Classics)*

Whetham, Edith H., MA, *Gilbey Lectr (Hist & Econ of Agric)*

Hughes, Kathleen W., PhD Lond, MA Lond & Camb, *U Lectr (Anglo-Saxon)*

Whitelock, Dorothy, MA Oxon, LittD, FBA,

FSA, FRHistS, *Elhington & Bosworth Prof. (Anglo-Saxon)*

Cook, Pauline L., MA PhD, *Tutor, Res Officer (Appl Econ.)*

Richards, Audrey I., CBE, PhD Lond, MA Lond & Camb, *Smuts Reader (Anthropol.)*

Russell-Smith, Dame Enid, DBE, MA

Bailey, Anita I., MSc Rand, MA PhD

Cane, Violet R., MA, *U Lectr (Maths)*

Newton, Miss Alison A., MA PhD, *U. Demr (Biochem)*

Easterling, Mrs Patricia E., MA, *Prælector*

Adler, Mrs. Dorothy R., MA Radcliffe, PhD, *Res Fellow*

Norton, Jane E., MA

Everett, Barbara M., MA Oxon & Camb

Gooder, Mrs Jean M., MA

Robson, Elaine A., MA PhD, *Asst in Res (Zool.)*

Duncan-Jones, Miss Elsie E., MA

HUGHES HALL

Founded in 1885 for the training of women intending to follow the profession of teaching, it became a 'recognized institution of the univ' in 1949. It accepts only graduates following the course in the univ. Dept. of Educn Students in residence (1960-61), 70. Telephone Cambridge 52866.

Principal—Margaret A. Wileman, MA Oxon & Camb, *U Lectr (Educn.)*, *Dir of Women Students in Dept of Educn*, Tutor—Mrs Margaret F. S. Bottrall, MA Oxon & Camb, *Deptl Lectr. (Educn)*

NEW HALL

Established in 1954 by the Association to Promote a Third Foundation for Women in the Univ of Cambridge It is a 'recognized institution of the univ'. Junior members in residence (1960-61), 80 Telephone Cambridge 50307

Murray, A. Rosemary, DPhil Oxon, MA Oxon & Camb., *Tutor*

Hammond, Hope, MA PhD, *Lectr in Engl.*

Clover, Mrs. Violet H., MA, *Asst Lectr in Hist*

Rawson, Elizabeth D., MA Oxon & Camb, *Leveshulme Res. Fellow*

Coleman, Mrs Dorothy, MA, *Lectr. in Mod. Langs, U Asst. Lectr. (French)*

Foster, Mrs. P. R. R., BSc Edin, *Lectr. in Natural Scis*

Winter, Miss S., *Steward*

GENERAL INFORMATION

The univ received formal recognition as a *studium generale* from Pope John XXII in 1318, but it was well established by that time and had already been given important privileges by King Henry III Its origins probably date from 1209 when, following disturbances at Oxford, a number of scholars migrated to Cambridge The first coll., Peterhouse, was founded by Hugh

de Balsham, Bishop of Ely, in 1284, and was followed by most of the others in the next three centuries.

In the period from the foundation of King's Coll (1441) to the foundation of Trinity Coll. (1546) the univ. expanded considerably, and achieved a European reputation. The high-water mark was perhaps reached during the chancellor-

ship of John Fisher (1504-35), who introduced Erasmus to Cambridge. The Reformation, and in particular the dissolution of the monasteries, had a disturbing influence, and ushered in a series of constitutional changes, the chief result of which was to give the colls a more important place in the constitution of the univ. The constitution of the univ. was stabilized when it received a new code of statutes from Queen Elizabeth in 1570, and was incorporated by act of parliament in 1571. Under the new statutes, which remained in force for nearly 300 years, all students had to be members of colls, and the govt of the univ was largely in the hands of the heads of colls.

There were few major developments in the 17th or 18th centuries. No new colls were founded between 1596 (Sidney Sussex) and 1800 (Downing). The decline in the number of students which was brought about by the civil war was temporarily checked by the Restoration, but in the next hundred years the average number of students matriculating each yr fell by two-thirds. But a number of professorships were founded, and under the influence of Sir Isaac Newton, who was Lucasian prof of maths for 33 yrs, maths. became the main subject of study, from 1750 onwards it was compulsory.

By the end of the 18th century written exams had taken the place of the earlier 'disputations'. Most of the teaching was done in colls. There were a few endowed univ professorships and univ lectureships, but the trust deeds governing them were often out of date, and the stipends attached to the posts very low. The Elizabethan statutes were so far unrelated to the conditions of the time that many were ignored.

Changes were urgently required, and the univ did not escape the reforming agitation of the 19th century. Its affairs were investigated by royal commissions in 1850 and 1872, and the univ. statutes were subsequently revised by statutory commissions. The classical tripos was introduced in 1824, and, after the maths tripos had ceased to be compulsory in 1850, the range of subjects of study was steadily widened. In 1856 nonconformists were allowed to graduate; in 1858 the local exams (for schools) were instituted; in 1869 the first women's coll, Girton, was founded; in 1871 all religious tests were abolished by the Universities Tests Act, and in the same yr the Cavendish physics lab was established; in 1872 the bd of extra-mural studies was instituted to organize univ extension lectures. During the century the average annual total of admissions increased by nearly 6 times.

In the early yrs of the present century the univ was in serious financial difficulties, which were aggravated by the war of 1914-18. The univ received a Treasury grant in 1919 on the condition that there should be an enquiry into its resources and organization. A royal commission appointed in 1920 recommended that the univ. (but not the colls) should receive an annual Treasury grant, and should be reorganized so as to take over some of

the teaching previously done by colls. In consequence the statutes were again revised, the facs. reorganized, and many more univ. lectrs appointed, thenceforward lectures, etc., were organized solely by the univ instead of partly by the colls. The univ has continued to expand, especially since the end of the 1939-45 war.

CONSTITUTION The univ is a self-governing body, the legislative authority is the *regent house*, which consists of those members of the teaching and admin. staff of the univ. and colls who have the MA or a higher degree. The *senate*, which consists of all the holders of the MA or higher degrees, has the right of voting on certain formal matters. The chief admin. body of the univ is the *council of the senate*, which is elected by the regent house. The *general board of the faculties* co-ordinates the educational policy of the univ and the *financial board* supervises its financial affairs.

The nominal and ceremonial hd of the univ. is the chancellor, who is elected for life. The vice-chancellor is a head of a coll who normally holds office for 2 yrs. He presides over *congregations* (meetings of the regent house or the senate) and is chairman of the council of the senate and the more important of the many *boards* and *syndicates* which manage the affairs of the univ.

Changes in the *ordinances*, or regulations of the univ., are proposed by the board or syndicate concerned in the form of reports which, after being approved for publication by the council of the senate, are published in the *Cambridge University Reporter*. Such reports can be criticized by members of the senate at *discussions* which are held once a fortnight in full term. A report may be amended after remarks made in the discussion. Subsequently a *grace*, which is a motion for the approval of its recommendations, is submitted to a vote of the regent house. Minor amendments of ordinances are proposed in *graces* which the council of the senate submit for the approval of the regent house without the formality of report and discussion. Ordinances may not infringe the *statutes*. Procedure for amendments of statutes is the same, but such amendments require the approval of the Queen in Council, after the approval of the regent house has been obtained.

The **COLLEGES** are independent self-governing corporate bodies quite distinct from the univ., with their own property and income. Their affairs are regulated by their own statutes, though these cannot be altered without the approval of the univ. and the Queen in Council, and they are also bound by some of the univ. statutes. The governing body of a coll consists of a *master* (or *provost* or *president*) and a group of *fellows*. Most of the fellows are also members of the staff of the univ; most of the staff of the univ. are either fellows or members of colls.

There are 19 colls for men and 4 colls (or similar institutions) for women. In addition there is a collegiate institution for men, Fitzwilliam

House, which is under the direct control of the univ. With the exception of Hughes Hall, which is reserved for women reading for the cert of educn, all colls accept both undergraduate and postgraduate students in any subject. The colls provide lodgings, corporate life and personal tuition. All students are required to be members of a coll (or one of certain recognized institutions), all the univ. lectures, labs, libraries, exams and degrees are open to members of any coll., whether men or women.

The principal coll officers are the *tutors*, who are responsible for the welfare and discipline of the students assigned to them and advise them about their studies and any other problems that may arise. Each student is also allotted a *supervisor*, who gives him personal tuition, and corrects his written work.

The coll. bldgs are usually grouped round one or more courts. Each coll has a hall (in which meals are served), a chapel, a library, and jr and sr. common-rooms. The rest of the bldgs are divided into rooms for students and fellows. Because of the increase in the numbers of students in recent years, only about half are able to live in rooms in their coll. The rest live in lodgings (which must, for undergraduates, be recognized by the lodging-houses syndicate), but they continue to have access to all the other facilities of their coll. Usually undergraduates are able to live in coll for one or two of the three yrs required for a degree.

DISCIPLINE outside the colls is maintained by the *proctors*, who are responsible for enforcing the *edicts* of the univ. Proctorial permission is required for such purposes as running a motor vehicle, holding a party for more than 15 persons, or organizing a club or society. Students are required to have gowns, which must be worn at most lectures, in the univ library, in the streets after dusk, for dining in hall and for official visits to members of the staff.

The **INCOME** of the univ is derived mainly from the Treasury grant, partly from the fees of students, grants for res., endowments and contributions from the colls which are graduated according to coll. revenues. In 1959-60 the income was £4,454,598, of which £2,873,179 was from the Treasury recurrent grant, £470,330 from fees, £458,836 from grants for res., £327,817 from endowments, £123,121 from colls and £201,315 from other sources.

FACULTIES. Teaching and res. are organized in 20 *faculties*, each under the supervision of a *faculty board*. The facs are: classics, div, Engl, fine arts, mod & mediæv langs, music, oriental studies, econ, & pol, hist, law, moral sci., engin., geog & geol., maths, phys & chem, agric, archaeol. & anthropol., biol 'A' (comprising bot & zool.), biol 'B' (comprising anat, biochem, pathol., etc.), and med. Several of the facs are further divided into depts, and there are also the following depts. independent of any fac. educn.,

estate management, chem engin. and the observatories.

There is no **UNIV PRECINCT** in the accepted sense. The colls, and univ bldgs are spread out on the west side of the town. Bldgs in course of constrcn include extensions to the new chem and engin labs and improved accomm for arts facs.

The **UNIVERSITY LIBRARY** (tel. Cambridge 56261) contains about 2,000,000 vols, including many early printed books, and over 10,000 MSS and 350,000 maps. It is entitled under the Copyright Act to a copy of every book published in Gt Britain & Ireland, and a large number of foreign books and periodicals are acquired by purchase. It contains, amongst others, the following notable collections: Acton libr (mediæv., eccles. and mod hist, 60,000 vols.), W G Aston's Japanese libr, Sir T Wade's Chinese books, J W Clark collection (Cambridge books, pamphlets, papers, etc.). Annual budget about £100,000.

In addition there are over 50 fac, deptl. and sp. libraries, containing in all about 500,000 books. Among the most important are the Balfour libr (zool), the Marshall libr (econ), the Seeley memorial libr (hist) and the Squire law libr. The Philosophical libr is the libr of the Philosophical Soc, but other members of the univ may consult its books on maths and the scis.

The colls have their own libraries for the use of members of the coll only. In addition to modern text-books for the use of students, most also contain important collections of old books or MSS, these include the Robertson Smith collection of oriental books in Christ's Coll, the Matthew Parker MSS in Corpus Christi Coll., 800 MSS., 60 incunabula, heraldic collections of Dr John Knight (17th cent) and 1300 books and pamphlets of Dr Wm. Branthwaite (d 1619) in Gonville & Caius Coll, the Rowe music libr and the Keynes libr (which contains Newton MSS) in King's Coll, the Pepys libr in Magdalene Coll, the Perne libr in Peterhouse, and the Capel collection of Shakespeariana in Trinity Coll.

MUSEUMS. The *Fitzwilliam Museum* (Dir.—C Winter, [Trin], MA), Trumpington St, Cambridge (tel. Cambridge 50023), contains extensive art and archaeological collections. The chief collections comprise Egyptian, Greek and Roman antiquities, coins and medals, paintings, prints, mediæv and mod MSS, ceramics, textiles, mediæv. and Renaissance objects of art. The collection of paintings includes examples of the Italian, Flemish, Dutch, French, British and Spanish schools, among which are a number of masterpieces. The library contains about 25,000 vols incl 12,000 relating to the arts, a collection of early printed books and the music collection. The museum is open free to the public.

The *Museum of Classical Archaeology* (Curator—Prof Jocelyn M C Toynbee, [Newn.], DPhil Oxon, MA, FSA, FBA), Little St Mary's Lane, Cambridge (tel. Cambridge 52410), contains a

collection of casts illustrating the hist. of Greek sculpture

The Museum of Archaeology and Ethnology (Curator—G. H. S. Bushnell, [Down], MA PhD, Asst Curator—Mary D. Crafter, [Girton], MA Oxon & Camb.), Downing St., Cambridge (tel Cambridge 50937), has a large and increasing collection, incl Saxon urns and ornaments, casts of central American monuments, Egyptian stone implements, unique Fijian collections and numerous others resulting from scientific expeditions by Cambridge men

The Museum of Zoology (Dir—F. R. Parrington, [Sid.], ScD), Downing St., Cambridge (tel Cambridge 58717)

Sedgwick Museum of Geology (Curator—A. G. Brighton, [Chr.], MA), Downing St., Cambridge (tel Cambridge 50129)

Whipple Museum of the History of Science (Curator—G. Buchdahl, [King's], MA Melb & Camb.), Downing St., Cambridge

LABORATORIES The principal labs are agric., anat., biochem., biol. and parasitol. (Molteno Inst.), bot., chem., chem. engin., colloid sci., engin., ethiol., exper. phys. (Cavendish), genetics, human anat., maths. (for res. on computing machinery), med., metall., mineral & petrol., pathol., phys. chem., physiol., psychol., statistical, vet. sci., zool.

BOTANIC GARDEN (Dir—J. S. L. Gilmour, [Cla.], MA, FLS), Bateman St., Cambridge (tel Cambridge 50101)

OBSERVATORIES (for staff, see *Astrophys.*, p. 841), Madingley Rd., Cambridge (tel Cambridge 52413), are about a mile from Cambridge and have a 36-in. reflector, a 17-in. Schmidt telescope and a 12-in. horizontal solar telescope with spectrographic equipment. There are a number of smaller instruments, a well-equipped workshop, a small optical shop and a good library

SCOTT POLAR RESEARCH INSTITUTE (Dir—G. de Q. Robin, [Cai.], MSc Melb., PhD Birm., MA), Lensfield Rd., Cambridge (tel Cambridge 56457), is the most important repository in the Commonwealth of information about arctic and antarctic regions

MADINGLEY HALL (Warden—E. Miller, [Joh.], MA), Madingley, Cambridge (tel Cambridge 307). A large country house, dating in part from 1540, about 4 mls. west of Cambridge. In term time accommodates about 50 grad. students (who must be members of one of the colls.) in study-bedrooms. In vacations the hall is made available to the bd. of extra-mural studies (see below) for residential courses

DEPARTMENT OF EDUCATION (for staff, see *Educ.*, p. 844), 17 Brookside, Cambridge (tel Cambridge 55271). Prepares students for the cert. in educ. awarded by the Cambridge Inst. of Educ. (see below). The 1-yr. course includes 1 term's teaching practice and is open to grads. of

any univ. Candidates must obtain admission to a coll. (in the case of women, to Hughes Hall) before applying for admission to the dept.

The univ. dept. of educ. is a corporate member of the Cambridge Institute of Education, 8 Brookside, Cambridge (tel Cambridge 56207/9). Dir—W. O. Bell, [Cath.], MA, Sec—F. P. C. Edmonds, [Qu.], MA

ADMISSION See Appendix III. Students must be admitted to a coll., admission to a coll. automatically secures admission to the univ. Most colls. have entrance exams, but they may admit persons who have exceptional qualifs. without requiring them to take an exam. Enquiries should be addressed to the tutor for admissions of the coll. concerned (to the sec. of Girton or Newnham Coll.). Candidates for admission to courses of 1st must also obtain the status of 1st student (see below)

The Adviser to Overseas Candidates for Admission (N. S. Wilson, [Pemb.], MA), at 17 Silver St., Cambridge (tel Cambridge 58913), is able to give information and advice to applicants for admission resident outside the U.K. and to govt. depts. acting on behalf of such students

NON-MEMBERS OF THE UNIVERSITY. Certain classes of persons who are not members of the univ. may be admitted to lectures or allowed to work in univ. labs. for limited periods. Enquiries should be addressed to the registry

FIRST DEGREES The BA is the first degree in all subs. The qualifs. for the BA hons. are (i) 9 terms' residence; (ii) reaching the hons. standard in any 2 of the exams known as 'tripos' exams (in certain cases, noted below, one such exam is a sufficient qualif.). In most subs. there are 2 tripos exams, the first of which (pt. I) is taken after a 1 or 2-yr. course of study, and the 2nd (pt. II) after 1 or 2 yrs. of more specialized study in certain aspects of the subj. It is possible to take the 2 tripos exams in certain different subs.

There are the following tripos exams. agric., pts. I & II, Anglo-Saxon (which consists of one pt. only), archaeological & anthropological, pts. I & II, archit. & fine arts, pts. I & II, chem. engin. (which consists of one pt. only and can only be taken after obtaining hons. in certain other exams); classical, pts. I & II, econ., pts. I & II, Engl., pts. I & II, geographical, pts. I & II; historical, pts. I & II, law, pts. I & II, mathematical, pts. I, II & III (pt. II qualifies for the BA without further exam, pt. III is normally taken only by the most advanced students who have omitted pt. I), mech. sci. (engin.), pts. I & II (pt. I qualifies for the BA without further exam.), mod. & mediev. langs., pts. I & II, moral sci., pts. I & II, music, pts. I & II, nat. sci., pts. I & II (pt. I qualifies for the BA without further exam. In pt. I a student must read 3 or 4 scientific subs., in pt. II he specializes in one scientific subj.), oriental studies, pts. I & II, and theological, pts. I, II & III (pt. IA is intended for those who have previously obtained hons. in another subj.)

There are also exams. in agric., estate management and Christian theol., leading to the ord BA degree. Outside these subsj only students intending to follow an honrs course are normally admitted. If a student fails to reach the standard required for honrs in his first tripos, he will not be admitted to a 2nd tripos, but may be given an allowance towards the ord. BA degree and, after passing one or two of the special exams which are held in most of the subsj. covered by the triposes, be admitted to that degree.

Most exams are held at the end of the Easter term.

AFFILIATED STUDENTS. Grads of many other univs., having degrees approved for the purpose by the council of the senate, may be allowed to proceed to the BA degree after 6 terms' residence and obtaining honrs in one tripos exam only, usually a pt II. (For details, see *The Student's Handbook*.)

HIGHER DEGREES. Without taking any further exam, a BA may be admitted to the degree of MA after 6 yrs have elapsed from the end of his 1st term, provided that at least 2 yrs. have elapsed from his admission as BA. The MA does not represent any addnl academic qualif, but confers seniority, including membership of the senate and certain privileges in the use of the univ library and other univ. institutions. An MA is conferred on the principal members of the staff who have degrees of other univs (in some cases after an interval of 3 yrs). Other members of the grad staff have the status of MA, which confers most of the privileges of the MA except membership of the senate and regent house.

Graduates of Oxford or Trinity Coll., Dublin, who become members of the staff, may by 'incorporating' be admitted to a degree which corresponds to that which they already hold and confers the same seniority.

The main res. degrees are the PhD, MLitt and MSc. See 'Research Students', below.

Law. A person may be a candidate for the LLB exam, if he has obtained honrs in either pt. of the law tripos, or if he is a BA and qualified to practise as a barrister or solicitor in England or Ireland or as an advocate or law agent in Scotland, or if he has passed a law exam. in another univ. approved by the fac bd.

Medicine. The course leading to the degrees of MB BChir normally lasts 6 yrs. At least 9 terms must be spent at the univ., during which the candidate must complete the 1st MB exam., the qualifying exam. in anat and physiol., the exam in pharmacol., and obtain honrs in a tripos (usually pt. I of the nat. scis. tripos). At this stage he is usually qualified to proceed to the BA. He must then spend at least 2 yrs. 9 mos. in clinical study at a hosp. (usually in London) and pass the final MB exam. before proceeding to the degrees of MB BChir, which are qualifs for provisional registration under the Medical Act, 1950. Not less than 2 yrs after passing the final

exam, for the MB BChir, a person may be a candidate for the degree of MChir.

Music. The qualifs. for the MusB are: (i) 9 terms' residence, (ii) passing 2 sections of the MusB exam. Candidates must first have obtained honrs in one pt. of the music tripos.

Veterinary Medicine. The course leading to the degree of VetMB normally lasts 6 yrs. The candidate must first complete the 1st MB exam., the qualifying exam. in vet. anat and vet. physiol., the exam. in pharmacol., and obtain honrs in a tripos (usually pt. I of the nat. scis. tripos). He must then spend 3 yrs completing specified courses at the school of vet. med., and obtaining practical experience before being admitted to the final vet. exam.

The other higher degrees, which are open only to members of the univ., are: MusM—3 yrs. from MusB; LLM—2 yrs. from BA or LLB (but at least 6 yrs. from first term of residence), BD—5 yrs. from BA; DD, LLD, MD, ScD, LittD, MusD—8 yrs. from BA or other first degree.

HONORARY DEGREES may be conferred on persons who have done good service to the univ. or are of great distinction. They are normally one of the following: DD, LLD, ScD, LittD, MusD or MA.

The univ. does not award EXTERNAL DEGREES.

DIPLOMAS. The following dipls are open to grads of any univ. whose qualifs. are approved (usually a degree in the same subsj is required): agric. sci., 1-2 yrs; agric., 2 yrs., classical archaeol., 1 yr., criminol., 1 yr., mathl stats, 1-2 yrs., numerical analysis and automatic computing, 1 yr., Roman law, 1 yr., and slavonic studies, 1 yr. Candidates are required to become members of the univ. and reside for 3 terms.

The dipls. in archit. and estate management are open only to persons with the Cambridge BA degree in those subsj. The dipl. in educn is open only to persons who have previously obtained the cert. in educn. at Cambridge.

The dipls. in compar. legal studies, econ. and internat. law are open only to registered res. students. See 'Research Students', below.

CERTIFICATES. The following certs are open to grads of any univ. whose qualifs. are approved: advanced study in chem. engin. and in engin. (either in theory of structures and strength of materials, or in control engin.), postgrad. study in chem. engin., engin., chem., metall., phys., chem. microbiol. and plant biochem., hist. studies, and hist. and philos. of sci. Candidates are required to become members of the univ. and reside for 3 terms. For the cert. in educn. see 'Dept. of Educn' above. Certs of proficiency are awarded with ord. BA degrees in agric., Christian theol. and estate management.

Certs in soc. anthropol., phys. anthropol. and prehist. archaeol. are open to any member of the univ. who has been accepted by fac. bd. of

archaeol and anthropol. and who has received instructn in Cambridge under direction of fac bd for 1 academic yr

Certs of competent knowledge in mod. langs are open to any member of the univ who has resided for 2 terms

RESEARCH STUDENTS Grads of any univ, and in exceptional cases non-grads, who can give evidence of ability to profit from a course of supervised res may be admitted as candidates for the degrees of PhD, MLitt or MSc. They must first obtain admission to the status of res student, and become members of a coll or Fitzwilliam House. Enquiries about admission to the status of res student should be made to the sec. of the Bd of Res Studies (L. M. Harvey, [Cath.], MA), The Old Schools, Cambridge (tel. Cambridge 58933). Res students are admitted to work in any fac

Candidates for the degree of PhD are required to pursue a course of res for 3 yrs, for the degrees of MSc and MLitt for 2 yrs., and for the dipls in compar legal studies, econ. and internat law or the certs of postgrad study in nat scis for 1 yr, they are placed under the direction of a supervisor, and are required to reside in the univ during full term, save that in certain cases a candidate for the PhD may be allowed to spend 1 yr working under supervision elsewhere, or may be granted exemption from 1 yr on the ground of res done before admission to Cambridge. After completing the course, candidates are required to submit a dissertation, or thesis, embodying the results of their res, and also (except for the dipls) undergo an oral or written exam.

Res. students may be admitted, normally for a period of not more than 1 yr, as candidates for degrees of other univs

EXPENSES Students are required to pay both univ and coll fees. The only recurrent univ fee is the univ composition fee (£11 a term in arts facs and £19 a term in sci facs). Since coll fees vary from coll to coll, it is not possible to give precise information. Total annual term-time expenditure is likely to be about £450, this would include some allowance for personal expenses. Attendance at long vacation courses would be addnl, and since the univ terms only cover about half the yr, a student who has to maintain himself during vacation will usually need £600-£700 a yr. The following initial fees must be paid before coming into residence: coll admission fee (£2 to £5); univ matric fee (£5); and, at most colls, 'caution money'. The latter is a sum of about £30 (increased by some colls in the case of students not normally resident in the U.K.) which is returned when the student completes his course. The univ. BA degree fee is £3.

ACADEMIC YEAR The academic yr is divided into 3 terms: Michaelmas term Oct 1-Dec 19, Lent term Jan. 5-March 25, Easter term April 10-June 18. In order to count a term towards the quals required for a degree, a

student is required to reside in the univ precincts for three-quarters of the term. Most students therefore reside during full term, which also lasts for three-quarters of each term, since regular teaching and lecturing are only given in full term. Dates of full term for academic yr 1962-63: Oct 9-Dec 7, Jan. 15-March 15, April 16-June 7.

During a period from the Thursday following July 6 to the Saturday following Aug 12 there are addnl lecture courses in agric, engin, law and most scientific and med. subs., which students may attend. Students in other subs may come into residence in this period to use libraries, etc., but will not receive formal teaching.

Most libraries and labs are open throughout the yr except for short periods at Christmas, Easter and in Sept.

The BOARD OF EXTRA-MURAL STUDIES undertakes the liberal educn. of adults, mainly in the eastern counties, and in a few centres farther afield. The Workers' Educatl Asscn, together with other voluntary asscns and the local educn. authorities, are represented on the bd, and are closely associated with the arrangement of its teaching work. Consultation also takes place through the East Anglian Regional Advisory Council for Further Educn. The teaching of the bd consists mainly of: (a) univ. tutorial classes, extending over 3 winter sessions, (b) univ. sessnl. classes, usually of 20-24 meetings; (c) univ. extension lecture courses, usually of 10-12 meetings; (d) other special courses, many of a pioneer type. Bursaries are awarded annually to men and women in the adult educn. movement who have shown themselves to be capable of profiting by a course of univ. study, but who, for various reasons, have not had the opportunity.

Summer Schools. The bd. holds vacation courses, incl. (a) an annual summer sch., in co-op with the WEA, mainly for students from tutorial and sessnl. classes, incl. a trg. course for potential tutors in adult educn; (b) vacation courses for students from overseas, mainly Europe; (c) occasl summer schs., in co-op with facs or depts. of the univ to meet special requirements. For an experimental period the univ. has placed Madingley Hall at the disposal of the bd in vacations, and the bd has arranged there a considerable no. of residential courses for adults. These include courses for army and R.A.F. officers and also for members of the U.S.A.F., for managers, supervisors and apprentices in industry, for trade unionists and for teachers.

Further particulars from the sec., G. F. Hickson, [Cla.], MA, Stuart House, Cambridge (tel. Cambridge 56275). Asst secs.: J. M. Y. Andrew, [Cath.], MA, F. V. H. Ramsbottom, [Cath.], MA; A. A. M. Stripp, [Trin.], MA. For names of full-time tutors, see p. 854. The bd. also has the services of about 90 pt-time tutors and lectrs.

SCHOLARSHIPS AND STUDENTSHIPS There are a limited no. of univ. awards, but most are for post-grad. study and are open only to members of the

univ. A larger no. of awards are offered by the colls. These include many open entrance scholarships and exhibitions, which are competed for by exams held in Dec (Feb for Fitzwilliam House and March for St Catharine's Coll.). Full details are given in a sp. number of the *Cambridge Univ. Reporter* published annually in May and obtainable from the univ. press (for addresses, see p. 875) price 6d.

Trinity Coll. offers exhibitions to enable students of Commonwealth univs. outside the U.K. to read for a BA, LLB or dipl. at Cambridge, particulars from the sr. tutor, Trinity Coll. Applicants must be made through the principal authority of the student's univ., and must reach the sr. tutor by May 1. For postgrad. awards open to grads. of other univs., see p. 808.

APPOINTMENTS BOARD. The bd. helps undergrads to decide upon the careers which might suit them, and brings together employers seeking recruits and undergrads seeking employment. 962 permanent appts. were obtained in 1960. For officers, see 'Admin and Other Staff', p. 855. Address: 6 Chaucer Rd., Cambridge (tel. Cambridge 54242). Telegrams: Appointments, Cambridge.

THE WOMEN'S APPOINTMENTS BOARD is also at 6 Chaucer Rd., Cambridge (tel. Cambridge 54249). 101 permanent appts. were obtained in 1960.

GRADUATE ASSOCIATIONS. There is no soc. of univ. grads., but each coll. has its own grads' assoc.

UNIVERSITY MILITARY AND AIR FORMATIONS. Cambridge univ. officers' trg. corps provides service trg. for students who wish to join regular army and for candidates for commissions in army emergency reserve and territorial army. H.Q. The Rifle Range, Grange Rd., Cambridge (tel. Cambridge 50995).

Cambridge univ. air squadron is establd. to promote interest in R.A.F. at the univ. and to attract entrants of good calibre and learning into the service by providing facilities for students to become acquainted with flying and its associated problems. Flying instrcn. given at Cambridge airport. H.Q.: 2 Chaucer Rd., Cambridge (tel. Cambridge 56942).

THE UNIVERSITY HEALTH SERVICE (tel. Cambridge 58217) is part of the dept. of human ecol. (For staff, see *Human Ecology*, p. 852). All students are invited to attend for a med. exam in their 1st term. The Univ. Health Centre includes a gymnasium, and is situated at *Fenner's*, the univ. cricket and tennis grounds.

UNION SOCIETY. The Cambridge Union Soc. is open to all male members of the univ. Its best-known activity is debating, but it also contains a libr., restaurant and rooms for soc. activities.

THE OXFORD AND CAMBRIDGE SCHOOLS EXAMINATION BOARD, establd. 1873, examines or inspects and reports on the work of schs. which

provide educn. of the highest grade. It also holds yearly exams and awards a General Cert. of Educn. (G.C.E.) which exempts the holder, under certain conditions, from respnsns. the min. entrance requirements of London and other univs., and the prelim. exams of various professional bodies, etc. Its exams are held at schs. in the British Isles, and also in the Middle East, the W. Indies and British Guiana. The regns. of the bd. are publ'd. by the Cambridge Univ. Press (post free, 2s. 6d.), for addresses, see p. 875. Secs. at Cambridge: A. E. E. McKenzie, [Trin.], MA, 10 Trumpington St. (tel. Cambridge 50658), at Oxford: G. J. R. Potter, MA, Oxon., 74 High St. (tel. Oxford 43549).

THE UNIVERSITY OF CAMBRIDGE LOCAL EXAMINATIONS SYNDICATE is one of the examining bodies in England and Wales approved for sec. sch. exams by the Ministry of Educn. Its membership includes univ. members, principals of schs. and reps. of local educn. authorities. The syndicate conducts sch. exams in Gt. Britain and overseas, and exams in Engl. for foreign students.

General Cert. of Educn. The exam. for the G.C.E. (at advanced and schol. levels in June and at old level in July and Dec.) is entrusted to a sch. exams. cttee., one-half of whose members are teachers apptd. by the Jt. Cttee. of the Four Secondary Assocs. Sch. teachers, as members of subj. cttees., and as examiners, take a prominent part in this exam. The cert. exempts the holder, under certain conditions, from univ. entrance requirements and the prelim. exams. of various professional bodies, and is endorsed by the Ministry of Educn. This exam. is not held in this form outside Europe. Special arrangements are made for the examination of members of H.M. Forces.

School Exams Overseas. The jt. exam. for the sch. cert. and G.C.E. and the higher sch. cert. exam. is held in Dec. in India and Pakistan, Malaya, W. and E. Africa, the Fed. of Rhodesia and Nyasaland, the W. Indies, Mauritius and elsewhere in conjunction with the educn. authorities, and in schs. for the British community in some foreign countries. In Malaya, the H.S.C. exam. is conducted jointly with the Univ. of Malaya. The exam. for the Federation of Malaya cert. of educn. is held in conjunction with the sch. cert. exam. in the Federation of Malaya. In W. Africa the sch. cert. is awarded jty. with the W. African Exams. Council and is named West African Sch. Cert. In the Sudan it is awarded jty. with the Sudan Exams. Council and is named Sudan Sch. Cert. Govt. schols. to univs. in Gt. Britain are awarded on the syndicate's exams in a number of countries of the British Commonwealth. The subj's of these overseas sch. exams correspond closely to those of the G.C.E. and normally carry the same exemptions in the U.K. In most areas where the exam. is taken candidates can obtain a G.C.E. cert. as well as or instead of a sch. cert. if they reach the necessary standard in 3 subj's.

Exams in English These exams for foreign students, which are conducted in assocn with the British Council, are held in Gt Britain and about 50 countries overseas. The cert. of proficiency in English*, which exempts the holder from the entrance test in English at certain univs, and the dipl. of English studies, which is intended to be of the same standard as a first exam for a univ. hons degree, carry the official approval of the Ministry of Education. There is also an exam for a lower cert. in English.

The exam for the *Cambridge Dipl. and Cert. in Religious Knowledge* is held in June, it is designed for teachers, church workers and others who desire a satisfactory proof of their knowledge of the subj.

Full regns (price is each for G.C.E. exams and overseas exams) from the sec. Syndicate Buildings, Cambridge (tel. Cambridge 55217).
Sec. T. S. Wyatt, [Sid.], MA, M.Litt., dep. sec. A. V. Hardy, [Cath.], MA, asst. sec. E. J. Saunders, [Fitzw.], MA, D. Gabbatt, B.Sc. Lond., assts. to sec. Maie E. Overton, [Newn.], MA, R. D. Moore, [Fitzw.], MA, Janet M. Buchnall, [Girton], MA, R. C. Lonsworth, [Pemb.], MA, P. J. Laidlaw, B.L. Edin., J. L. Cannon.

PUBLICATIONS *The Student's Handbook*, 15s, annually (contains full information about courses of study and exams, entrance schols, etc.); *Compendium of Univ. Regns*, 9d, *An Introduction to Cambridge*, by S. C. Roberts, 6s, *Statutes and Ordinances of the Univ. of Cambridge*, 25s, every 3 yrs, annual supplements, 10s 6d, the *Annual Register*, 40s (contains list of members of the univ, class-lists, scholp winners, etc.), the *Historical Register*, 35s (contains all recorded hons class-lists, members of staff, prize-winners, etc., up to 1910), and its *Supplements* 1911-20, 15s;

1921-30, 21s, 1931-40, 21s, 1941-50, 25s, 1951-55, 25s., *Endowments of the Univ.*, 1904, 10s 6d, *Alumni Cantabrigenses*, ed J and J. A. Venn, £10 10s each vol (contains biographical details of all members of the univ pt I, 4 vols., to 1751; pt II, 6 vols., 1752-1900), *Matriculations and Degrees* 1544-1659, 70s, 1851-1900, 30s, 1901-12, 18s; *University Ceremonies*, by H. P. Stokes, 15s, *Cambridge Pocket Diary*, 5s., plus tax, annually, *Cambridge Univ. Reporter*, 6d, weekly in term. The above are obtainable from the Cambridge Univ. Press, Bentley House, 200 Euston Road, London, NW 1, and all booksellers.

Histories, etc. *The City and Univ. of Cambridge*, ed J. P. C. Roach (vol. 3 of the *Victoria Hist. of the County of Cambridge*), *Architectural History of Cambridge*, by R. Willis and J. W. Clark (4 vols.), *The Univ. of Cambridge in the 18th Century, Unreformed Cambridge, Early Victorian Cambridge, and Later Victorian Cambridge*, by D. A. Winstanley, and individual coll. histories.

Unofficial publications *The Cambridge Review*; *Resident Members of the Univ.* (extra no. of *The Cambridge Review*, Oct. 7s 6d), *Varsity Handbook* (contains details of undergrad clubs and socs), *Varsity* (weekly undergrad newspaper); *Granta*, etc.

CAMBRIDGE UNIVERSITY PRESS The first printing-press in Cambridge was set up in 1521, and the univ. was authorized to print books by a charter of 1534. The Press now has a large publishing business, mainly of learned books. For staff, see 'Admin and Other Staff', p. 855. Addresses: Trumpington St., Cambridge (tel. Cambridge 51626); Bentley House, 200 Euston Rd., London, NW 1 (telegrams: Cantabrigia, Norwest, London, tel. Euston 5451); 32 East 57th St., New York, 22, U.S.A. (tel.: MU-8-8888).

DEPARTMENTAL TELEPHONE NUMBERS (Cambridge exchange in each case)

Adviser to Overseas Candidates for Admission	58933	Education	55971	Oriental Studies	57141
Agriculture	58381	Engineering	55091	Overseas Studies	53951
Anatomy	59141	English	56411	Oxford & Cambridge Schs	
Appl. Economics	58944	Estate Management	59781	Exam Bd	50658
Appts Bd (Men)	54242	Extra-Mural Studies	56275	Parasitology (Molteno)	
Appts Bd (Women)	52629	Fitzwilliam Museum	50023	Inst. Pathology	50577
Archaeol. & Anthropol.	50937	Genetics	58694	Pharmacology	50639
Architecture	54265	Geodesy & Geophysics	52103	Physics (Cavendish Lab.)	54481
Biochemistry	56288	Geography	53809	Physiology	58621
Botanic Garden	50101	Geology	50129	Press, University	51626
Botany	58304	Health Service	58217	Psychology	51386
Chem. Engineering	58231	Library	56261	Radiotherapeutics	58341
Chemistry	56491	Local Exams	55217	Registry	58933
Classical Archaeol. (Mus.)	54410	Mathematics	53133	Res. Studies, Bd of	58933
Colloid Science	56281	Medicine	58234	Scott Polar Res. Inst.	56457
Criminology	59196	Metalurgy	59501	Statistical Lab.	58322
Divinity	56980	Mineralogy & Petrology	55444	Veterinary Sch.	55641
Economics	58944	Mod. & Med. Langs	56411	Zoology	58717
		Observatories	52413		

* The Univ. of London also awards a cert. of proficiency in Engl., see p. 963

THE YEAR 1960

PRINCIPAL BENEFACTION Estate of I H N Evans, est at £30,000, for museum of archaeol and ethnol, and for res into archaeol and ethnol. of SE Asia

MAJOR BUILDING DEVELOPMENTS. *Bldgs completed* chem labs

NEW CHAIRS Chem. microbiol., mech., physiol. of reproduction

RETIREMENTS Dr B F C Atkinson (under-librarian), Prof G E. Briggs (bot.), Dr G S. Carter (zool.), Prof. B W Downs (Scandinavian studies), Prof H H Farmer (div.), R Lubbock (engin.); H T Matthews (animal health), Prof E B. Moullin (electr engin.), Dr W G Palmer (chem.), H W Phear (engin.), Mrs. Constance F Tipper (engin.)

RESIGNATIONS P T Bauer (Smuts Reader), apptd to chair of econ of under-developed countries, Lond., Dr D E Blackwell (observatories), apptd to Savilian chair of astron, Oxford, O Buneman (appl. maths.), Dr J T Davies (chem engin.), apptd to chair of chem engin., Birm., E H K Dibden (sec. phys. dept), appt registrar, Middle East Tech Univ, Ankara, J Hamilton (maths.), apptd to chair of phys., Lond., Dr M R. Horne (engin.), apptd to chair of civil engin., Manc., A F Huxley (exper. biophys.), apptd to Jodrell chair of physiol., Lond., Dr R D Keynes (physiol.), apptd to post with Agric. Res. Council, D V Lindley (maths.), apptd. to chair of stats, Wales; Mrs Jean O. Lindsay (hist.), Dr J Nutting (metall.), apptd to chair of metall., Leeds, Dr E W Parkes (engin.), apptd to chair of engin., Leic.; J A Ratcliffe (phys.), apptd dir of radio res., D S.I.R., P. Robson (estate management), J W F Rowe (econ.), D E. Stevenson (vet. clin. studies), T C Thomas (law), apptd sr bursar, St John's Coll., C H Thompson (Esquire Bedell), Dr D C Twitchett (Chinese), apptd. to chair of Chinese, Lond., Dr W. A. Wooster (mineral and petrol)

DEATHS. Sir Ernest Barker (emer. prof. of pol. sci.), C M. Burrell (lectr. in engin.), Dr L C. G. Clarke (formerly dir of Fitzw. Museum), Blanche A. Clough (formerly principal of Newnham Coll.), Gertrude L. Elles (formerly reader in geol. and vice-principal of Newnham Coll.), Dr. H D Hazeltine (emer. prof. of laws of England), Sir Hersch Lauterpacht (formerly prof of internat law); W Lewis (formerly univ printer), L. J. Potts (lectr. in Engl.); Sir Alan

Rook (formerly sr health service officer), F. J. M. Stratton (emer. prof of astrophys)

HONORARY DEGREES *LLD*—Rt Hon Sir Norman Brook, sec of cabinet, Rt Hon R G Menzies, prime minister of Australia, Tunku Abdul Rahman Putra, prime minister of Fed of Malaya, Rt Hon Lord Robbins, prof of econ, Lond. *LittD*—R Jakobson, prof of Slavic langs and lits, Haiv., Sir John Neale, emer. prof of Engl. hist., Lond., H E G St Seferiades, Greek ambassador to Court of St James. *ScD*—Sir John C. Eccles, prof of physiol., A N U, Sir Christopher Hinton, chairman, Cental Electr. Generating Bd; S O. Horstadius, prof of zool., Uppsala, B A. Houssay, dir, inst of biol & exper. med, Buenos Aires, J H Oort, prof of astron, Ley. *MusD*—B Old, formerly univ. organist. *MA*—W H Topper, stone-mason

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	8077	—
Women	835	—
Total	8912	—

Included in the figures above are —

Postgraduate students, 1526

New admissions, 2872

Students from other countries, 786 (Countries from which largest numbers came U S A., 123; Australia, 89, Canada, 65, India, 65, S Africa, 61, N Z, 32, Palustan, 30, Ceylon, 23).

DEGREES AWARDED (1959-60) *All facs* BA (hons), 2240, BA (ord), 204, MA, 1762, PhD, 165. *Arts* MLitt, 4, LittD, 6. *Div* BD, 1, DD, 1. *Law* LLB, 51, LLD, 2. *Med.* MB, 178, BChir, 182, MChir, 4, MD, 18. *Munc.* MusB, 8. *Sci* MSc, 11, ScD, 9. *Vet. med* VetMB, 11. *Total number of first degrees awarded* 2444

DIPLOMAS AWARDED (1959-60) Agric., 20, agric. sci., 5; anthropol., 5; archit., 10, compar. legal studies, 9, internat. law, 1, mathl. stats, 9, numerical analysis & automatic computing, 8, prehist. archaeol., 1

CERTIFICATES AWARDED (1959-60) Educn, 206, advanced study in engin., 9, hist. & philos. of sci., 3, competent knowledge in mod. langs., 16

UNIVERSITY OF DURHAM*

Founded 1832

Postal Addresses (University Offices).

46 North Bailey, Durham, England. Telephone · Durham 3355-6

1A Kensington Terrace, Newcastle upon Tyne 2, England Telephone · Newcastle 21278

VISITOR—THE LORD BISHOP OF DURHAM

CHANCELLOR—The Rt. Hon. THE EARL OF SCARBROUGH, KG, GCSI, GCIE, GCVO, TD, BA *Oxon*,
Hon LLD *Leeds*, *Lond* & *Sheff*, Hon DCL

VICE-CHANCELLOR (from Aug 1, 1961) §—D. G. CHRISTOPHERSON, OBE, DPhil *Oxon*, FRS, MIMechE,
Warden of the Durham Colleges

PRO-VICE-CHANCELLOR (from Aug 1, 1961) §—C. I. C. BOSANQUET, MA *Oxon* & *Camb*, Hon DCL,
Rector of King's College, Newcastle upon Tyne

HON. TREASURER—The Most Hon. THE MARQUIS OF NORMANBY, MBE

REGISTRAR—

ADMINISTRATIVE AND OTHER STAFF

UNIVERSITY OFFICES Dep Registrar G. A. Chadwick, BSc *Liv* Asst Registrar W. E. Saxton, MA *Camb*, PhD *Edin* Finance Officer R. S. Boumphrey, MA *Oxon*

APPOINTMENTS BOARD OFFICE. Appts Officer H. V. Walters, BSc PhD *Lond*, FIP Dep Appts.

Officer. J. K. Hudson, MA *Oxon* Asst. Appts. Officers T. C. Archbold, BSc, A. Pickles, MSc *Leeds*

SCHOOL EXAMINATIONS OFFICE, 8 Sydenham Terrace, Newcastle upon Tyne, 2 Sec. P. N. Anderson, BA *Belf*

DIVISIONS OF THE UNIVERSITY

DURHAM COLLEGES see p 881

KING'S COLLEGE, NEWCASTLE UPON TYNE · see p 888.

AFFILIATED COLLEGES

A Colls in which students may matriculate, keep terms and pass exams, and so qualify for degrees without coming to England

CODRINGTON COLLEGE, Barbados, The West Indies Trustees (under the will of Christopher Codrington, who died in 1710)—the Soc. for the Propagation of the Gospel Affiliated to Univ of Durham in 1875 In 1955 the Community of the Resurrection, Milfield, assumed direction of the coll and pastoral care of the estates. Visitor—the lord bishop of Barbados, principal—Rev R. A. M. Genders, MA *Oxon*

FOURAH BAY COLLEGE, P.O. Box 37, Freetown, Sierra Leone, W. Africa. see p. 774

B Coll. affiliated in the schools of mech, marine, civil and electr engin.

SUNDERLAND TECHNICAL COLLEGE, Sunderland, Co Durham (tel. Sunderland 4447). Founded in 1901. Affiliated in 1930 under Univ. of Durham Act, 1908 The coll is represented on senate and on bd of the fac of appl. sci. Principal—M. Hutton, BA PhD Approx 230 univ level students

* Member of the Association of Universities of the British Commonwealth

§ The warden of the Durham Colls and the rector of King's Coll are alternately vice-chancellor and pro-vice-chancellor for 2-yr. terms.

GENERAL INFORMATION

The univ. was establd in 1832. The Coll of Medicine, founded in Newcastle in 1834, was associated with the univ. first in 1852 and more closely in 1870. The Durham Coll of Physical Sci., later Armstrong Coll., was founded in 1871 in Newcastle as a part of the univ. The reconstitution of 1908 brought the Durham Colls., the Coll of Medicine and Armstrong Coll into a closer relationship. The reconstitution of 1937 carried the process further, establishing a central financial control. It also merged the two Newcastle colls. in King's Coll, Newcastle upon Tyne.

A further reconstitution is now planned which will lead to the existence of separate univs. in Durham and Newcastle.

CONSTITUTION. The univ. is governed by a visitor, chancellor, vice-chancellor, pro-vice-chancellor, convocation, court, senate and bds. of facs. It includes two divisions, namely, the Durham division and the Newcastle division. The Durham division is governed by a council, an academic bd and a warden, the Newcastle division by a council, an academic bd and a rector. The warden and rector are alternately vice-chancellor and pro-vice-chancellor of the univ. for 2-yr terms.

Convocation is the body of grads. which may make representations to the univ. on any univ. matter. The court appoints profs. and readers on the recommendation of senate, determines the allocation of all funds at the disposal of the univ. and represents the univ. in all negotiations for obtaining grants from public bodies. Senate determines the conditions on which academic distinctions are awarded and are the supreme governing and executive body of the univ. in all academic matters. The central activities of the univ. controlled by senate and court include all degree exams and a number of specialized activities such as the appts. bd, publicans bd, sch. exams bd and the inst. of educn.

The divisions control admission to courses and all teaching. The councils are the governing and executive bodies of the divisions and are advised on academic matters by the academic bds.

For the divisions and affiliated colls., see below and p. 877.

INCOME (1959-60) £3,264,054, incl. recurrent Treasury grant allocated to the divisions (Durham division, £427,938; Newcastle division, £1,396,179).

FACULTIES AND DEANS (1961-63) *Agric.*, Prof. M. M. Cooper, *appl. sci.*, Prof. G. H. Chambers (marine engin.), *arts*, Prof. K. W. Britton (philos.), *econ. studies*, A. D. Airth, *law*, Prof. D. W. Elliott, *med.*, Prof. A. G. R. Lowdon, *music*, Prof. A. J. B. Hutchings; *sci.*, Prof. T. S. Westoll (geol.), *theol.*, Rev. Prof. G. W. Anderson, (1960-62) *educn.*, Prof. E. J. R. Eaglesham.

LIBRARIES. See pp. 886 and 897.

EXCAVATION COMMITTEE. The excavation cttee. of senate supervises a campaign of excavation and trg. in archaeol. methods in the Roman frontier region. A trg. course for students in archaeol. is normally held at Colbybridge in July each yr.

ADMISSION. See pp. 886 and 897, and Appendix III.

FIRST DEGREES. BA, BSc (in sci., appl. sci. or agric.), BA (EconStudies), 3 yrs. (for hon., 3 or 4 yrs.), the gen. degree in sci. may be awarded with hon., BA (SocStudies), BA (archit. studies), BA (in oriental studies), LLB, 3 yrs., BA (in fine art), BA (land use studies), 4 yrs., BArch, 5 yrs., MB BS, 6 yrs. of med. study (3 yrs. at least in med. sch. at Newcastle), BDS, 6 yrs., BMus is an external degree. All other first degrees require full-time attendance at courses.

Honours courses: anthropol., classics, econ., Engl., French, German, geog. (arts & sci.), Greek, Latin, maths (arts & sci.), mod. hist., music, philos., psychol., pol., Scandinavian studies, Spanish, theol., oriental studies, fine art, land use studies. Archt. Medicine Dental surg. Appl. phys., chem. engin., civil engin., electr. engin., marine engin., mech. engin., metall., mining engin., naval archit. Bot., chem., geol., phys., physiol., psychol., zool. Agric. Econ. studies. Law.

HIGHER DEGREES. BD, 9 terms. DD, 10 yrs. from BA, 5 yrs. from BD. MA, 6 terms from graduation (except in music), MA (EconStudies), 6 terms from graduation; MLitt, 3 yrs., MEd, 3 yrs., DLitt, 10 yrs. from graduation (except in music); BCL, 6 terms from graduation (except in music and law); MD, 2 yrs. from MB BS; MS, 5 yrs. from MB BS; DHy, 6 yrs. from MB BS; MDS, 2 yrs. from BDS, DDS, 4 yrs. from MDS or 6 yrs. from BDS; MSc, 2 yrs. from BSc, DSc, 4 yrs. from MSc or PhD or 7 yrs. from BSc, MMus, 9 terms from BMus, DMus, 6 terms from MMus, LLM, 2 yrs. from LLB or BCL, LLD, 4 yrs. from LLM or 6 yrs. from LLB, PhD, 3 yrs. from admission as candidate.

Grads. of other univs. are admissible to the following higher degrees, after pursuing studies indicated. MLitt, 3 yrs. under supervision; MA (EconStudies), not less than 2 yrs. and not more than 4 yrs. in a course of advanced study or res. under supervision; MEd, 2 yrs. full-time, 3 yrs. pt.-time, under supervision; MSc, 1 yr. full-time, 2 yrs. pt.-time advanced study and res. under supervision; MDS, not less than 2 yrs. advanced study or res. under supervision; MMus, on exam and exercise, LLM, not less than 2 yrs. and not more than 4 yrs. advanced study or res. under supervision; PhD, 3 yrs., incl. not less than 2 yrs. full-time advanced study or res. under supervision in the univ.

DCL and DCh awarded only as hon. degrees.

PhD awarded only as 'earned' All other higher degrees both hon and 'earned' No first degrees hon

DIPLOMAS *Anthropol*, 2 yrs, open to grads. of approved univs, *appl. electronics*, 3 terms, open to grads in pure or appl sci of approved univs or to candidates with specially approved qualifs, *Arabic*, 3 terms, open to grads of approved univs, *Arabic*, 5 yrs, *bibl studies*, 3 terms, open to grads. of approved univs, *econ studies*, 2 yrs, *educn* (awarded by Inst of Educn, see below, under 'Institute of Education', for other qualifs awarded by the inst), 1 yr, open to grads of approved univs; *electr. power engn*, 3 terms, open to grads in appl. sci of approved univs or to candidates with specially approved qualifs, *foreign lang*, open to grads. of the univ in any fac except music, *highway & traffic engn*, 3 terms, open to grads in appl sci. (civil engn.) of approved univs. or to candidates with specially approved qualifs, *landscape design*, 3 terms, *numerical analysis & automatic computing*, 3 terms, open to grads of approved univs or to candidates with specially approved qualifs, *psychol med*, 6 terms (pt-time), open to candidates who have held a registrable med qualif for not less than 6 mos and a resident hosp appt in gen med, *pub admin*, 2 yrs, *pub health*, 5 terms (pt-time), open to candidates who have held a registrable med qualif for not less than 2 yrs, *pub health engn*, 3 terms, open to grads in appl sci (civil engn.) of approved univs or to candidates with specially approved qualifs, *theol*, 6 terms, open to grads of univs of British Commonwealth, *town planning*, 3 terms, open to holders of a cert in town planning

CERTIFICATES *Bibl studies*, 3 terms Soc. studies, 2 yrs

FEES *Matric (non-recurrent)*, £2. **Exams.** (for the course) BA, LLB, BSc, £10. 10s, BA (in fine art), BA (in land use studies), £10, BA (archit studies), £7 10s; BArch, £12 10s, MB BS, £34, BDS, £44, MA, £6, MLitt, MSc, MA(EconStudies), LLM, £8, MMus, MDS, £10, PhD, MD, MS, £12, DD, DSc, DLat, LLD, DHy, DDS, £15, MEd, £12, BD, £13, BCL, £15, BMus, £19, DMus, £11. Degrees—for initial degrees, £4 (BMus, £5), for master's degrees, BCL, BD, PhD, £5, for higher doctorates, MS, £10 (DMus, £15). For tuition fees, see below under 'Durham Colls' and 'King's Coll'

ACADEMIC YEAR Oct to June 3 terms (Durham Colls, 8 or 9 wks each, King's Coll., Newcastle upon Tyne, 9 or 10 wks each).

EXTRA-MURAL WORK In conjunction with the N district of the WEA, the univ in its two divisions provides tutorial classes, sessional classes and univ extension courses in a wide variety of subjects for extra-mural adult students in the counties of Durham, Northumberland, Cumberland and Westmorland. These classes are conducted by divisional bds for extra-mural

studies under the Ministry of Educn regns for adult educn and are partly financed by grants from the ministry and from LEAs

VACATION COURSE See 'Excavation Cttee', above

SCHOOL EXAMINATIONS BOARD Conduct exams for award of the General Cert of Educn Regns and syllabuses (price 3s post fice) may be obtained from 8 Sydenham Terrace, Newcastle upon Tyne, 2 (tel 22233). Sec P N Anderson, BA Belf

POSTGRADUATE AWARDS open to graduates of other univs. see p 808

THE UNIVERSITY APPOINTMENTS OFFICE (see p 877) covers both the Durham Colls and King's Coll, Newcastle upon Tyne Addresses 10 Kensington Terrace, Newcastle upon Tyne, 2 (tel 29827), and 61 Saddler St., Durham (tel. 2342)

GRADUATES' ASSOCIATIONS. The Durham Univ Soc was founded in 1921 Meetings held in London Hon sec M M Leask, BA, Olney, Sandy Lane, St. Paul's Cray, Kent (See also pp. 887 and 899)

UNIVERSITY NAVAL, MILITARY AND AIR FORMATIONS Details from RNR Captain, Tyne Division, RNR, HMS Calliope, Newcastle upon Tyne, 4 (tel 35493 and 37584) *OTC (TA)*. Adjutant, HQ Durham Univ OTC, Yeomanry Drill Hall, Northumberland Rd, Newcastle upon Tyne, 1 (tel 27238) *Air Squadron* Sec, Durham Univ Air Squadron, 7 Windsor Cres, Jesmond, Newcastle upon Tyne (tel 81-3093) *W.R.A.C* Admin Officer, W.R.A.C., Yeomanry Drill Hall, Northumberland Rd, Newcastle upon Tyne, 1 (tel 27238).

INSTITUTE OF EDUCATION The inst examines students in the univ depts of educn, and in trng colls associated with the univ, through the inst, and provides facilities for further study for teachers already qualified and in practice The inst awards the univ's dipl in educn (open to grads of approved univs) after 1 yr's course The inst. also awards the following qualifs on courses open to teachers of at least 5 yrs' experience dipl in educn of young children, 1 yr full-time plus some pt-time study, 3 yrs pt-time, dipl in further study of sec educn, 3 yrs pt-time, dipl in educn of handicapped children, 1 yr full-time plus some pt-time study; cert. for approved sch housemasters, 1 yr full-time, cert. in 'subject teaching' in sec schools, 2 yrs pt-time, associateship in educn for overseas teachers, 1 yr. full-time The headquarters of the inst are at 19 Leazes Terrace, Newcastle upon Tyne, 1 (tel Newcastle 28604)

Staff of Institute Du—B Stanley, MA Oxon. Staff tutors—A Arnot, MA Edin, J W. Bainbridge, BSc, Dorothy I E Cann, W Fawcus, MA, Mrs Winifred Fawcus, MA, Mrs Dorothy Heathcote, MA, E W Hughes, BSc

MA *Birm.*, H D Jones, BA *Wales*, LLM *Lond.*, F. Lloyd, BA *Wales*, MEd *Natal*; R Morris, MA *Oxon.*, Mabel F Wilson, BA Librarian—J D. Dewis, MA *Camb* Admin assts—Elsie Wightman (sec for exams), A K Grieve, MC, MA *Camb*

Training Colls. Alnwick Trg Coll (principal—Winifred Taylor, BSc *Lond.*), Bede Coll, Durham (principal—K G Collies, MA *Camb.*), Darlington Trg Coll (principal—Oliver M Stanton, MA *Camb & Birm.*); Domestic Science Coll, Newcastle upon Tyne (principal—Irene Rowland, MA *Lond.*, BSc *Lev.*), Kenton Lodge Trg Coll, Newcastle upon Tyne (principal—Nora I Chelton, MA *Oxon.*), Neville's Cross Coll, Durham (principal—Mary Whitley, BA *Lev.*), Newcastle Day Trg Coll (principal—R D Bramwell, MA *Birm.*, PhD); St Hild's Coll, Durham (principal—Nina M E. Joachim, MA *Oxon.*), St. Mary's Coll, Fenham, Newcastle upon Tyne (principal—Madame Angela M Ward, MA *Lond.*), Sunderland Trg Coll (principal—Joyce T Tasker, MA *Camb.*)

PUBLICATIONS *Univ Calendar* (Oct.), vol I—almanack, statutes, lists, etc., vol II—regns. for degrees '7s 6d. per vol.; list of *Grads of the Univ.* (1954), *Univ of Durham Gazette*, annual sub 2s 6d; *Durham Univ Journal*, once a term, annual sub. 6s. 6d., *Riddell Memorial Lectures* (annual), 9s. 6d., *The Univ of Durham 1832-1932*, by C E. Whiting (Sheldon Press, London, 1932), *Report of Royal Commission on the Univ of Durham* (HMSO, London, 1935), *The Newcastle upon Tyne Sch of Medicine 1834-1934*, by Turner and Arnison (Andrew Read & Co Ltd., Newcastle upon Tyne, 1934) The Inst of Education publishes a *Journal* 5 times a yr., annual sub. 2s. 6d., and the *Durham Research Review*, annually, 5s

PUBLICATIONS BOARD The bd are a cttee of senate, founded in 1950 in order to arrange for the public of a series of monographs, sponsored by the univ. and known as Univ of Durham Publications, although they are published by the Oxford Univ Press The bd expect to publish about 2 vols. a yr

THE YEAR 1960

NEW CHAIRS Durham div appl phys, org chem

HONORARY DEGREES DCL—H C. Ferens, alderman, vice-chairman, Durham Colls council, J J Grant, formerly principal, Foulsham Bay Coll, Sir William G. Holford, prof of town planning, Univ Coll, Lond., Sir Harold Jeffreys, Plumman prof of astron and exper phys., *Camb.*, 1946-1958, E H Taylor-Cummings, chairman, Foulsham Bay Coll Council for many years DSc—E S Hills, prof of geol and mineral, Melb.; D Hunter, sr physician, London hosp., and dir, Med Res Council's unit in indust health D Litt—Helen L. Gardner, reader in Renaissance Engl Lit., Oxford, G S R Kison Clark, reader in constitutional hist, *Camb.* MA—T. T. Anderson, formerly head of jr sch of Royal Grammar School, Newcastle, Winifred C Donkin, asst librarian, King's Coll, Newcastle, J W Foster, alderman, chairman of standing joint cttee and of police authority of Durham County, T Gray, keeper in charge of County Record Office, Cumberland

Statistics

STUDENT NUMBERS, 1960-61*

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	4058	329
Women	1165	106
Total	5223	435 §

Distribution by Faculties Agric, 160, appl sci, 694; arts, 2083; dent surg, 280; econ

studies, 170, educn, 335 §, law, 107, med, 461, sci., 1280, theol, 88 Total 5658

Included in the figures above are:—

Postgraduate students, 813 §

New admissions, 1673.

Students from other countries, 366 (Countries from which largest numbers came Nigeria, 57, Norway, 28, Ghana, 23, India, 20)

DEGREES AWARDED (1959-60) || Agric BSc, 38, BSc (hons), 6; MSc, 6 Appl sci BSc, 145, BSc (hons), 110, MSc, 7, MSc (Agric Eng), 5 Archt BA, 3, BArch, 3, BArch (hons), 5 Arts BA, 200; BA (hons), 278, MA, 23, MLitt, 3 Econ studies BA (EconStudies), 53, BA (EconStudies) (hons), 12, MA (EconStudies), 2 Educn MEd, 7 Law LLB, 6, LLB (hons), 21 Med (incl dent surg) MB BS, 73, MB BS (hons), 5, MD, 4, BDS, 24, BDS (hons), 5, MDS, 1 Music BMus, 7 Sc BSc, 56; BSc (hons), 223, MSc, 10, DSc, 2 PhD (all facs). 51 Total number of first degrees awarded, 1270

LICENCES AWARDED (1959-60) || Dent. surg, 33

DIPLOMAS AWARDED (1959-60) || Archt, 7; bibl studies, 1; econ studies, 1, educn, 213; electr. power engin, 1, highway & traffic engin, 3, landscape design, 8, numerical analysis & automatic computing, 1, psychol med, 2, pub health, 13, theol, 24, town planning, 10

CERTIFICATES AWARDED (1959-60) || Bibl studies, 1, soc studies, 6

* Durham and Newcastle divisions only

§ Includes 74 MEd candidates, registered and studying in both Durham and Newcastle divisions

|| Including affiliated colleges

DURHAM COLLEGES

Founded 1832

Postal Addresses

Warden, Treasurer and Secretary 38 North Bailey, Durham, England
(Telephone . Durham 2233-4)

Librarian Palace Green, Durham, England (Telephone . Durham 2654)

WARDEN—D G CHRISTOPHERSON, OBE, DPhil *Oxon*, FRS, MIMechE (Vice-Chancellor of the University *)

CHAIRMAN OF COUNCIL—E F COLLINGWOOD, CBE, MA PhD ScD *Camb*, Hon DSc

REGISTRAR AND SECRETARY—I E GRAHAM, MA *Edn*

TREASURER—Col J C R. FITZGERALD-LOMBARD, OBE, MA *Camb*

LIBRARIAN—D G RAMAGE, MA *Edn*, FLA

TEACHING STAFF

[†=Part-Time]

Arabic, see Oriental Studies

Archæology

Buley, E, MBE, MA *Oxon*, FSA
(Roman-Brit Hist. & Archæol.) Prof
Cramp, Rosemary J, MA BLitt *Oxon*, FSA
(Anglo-Saxon Antiquities & Archæol)
Lectr

Mann, J. C, BA PhD *Lond*
(Roman-Brit Hist & Archæol) Lectr

Botany

Valentine, D. H., MA PhD *Camb*, FLS Prof.
Croby, J. L., MA PhD *Camb*, Sr. Lectr.
Chalkin, Kathleen M., MSc *Wales* Lectr.
Banbury, G. H., BSc *Lond* Lectr.
Watson, Pauline, BSc PhD *Lond*. Lectr.
Bellamy, D. J., BSc *Lond* Lectr.

Chemistry

Coates, G. E., MA *Oxon*, DSc *Brist*,
FRIC Prof.
Musgrave, W. K. R., PhD DSc *Birm*
(Org. Chem) Prof
Martin, G. R., BSc *Lond*, FRIC
(Radiochem) Reader
Christie, G. H., MSc PhD *Sheff*, FSA

Sr Lectr
Kohnstam, G., BSc PhD *Lond* Sr. Lectr.
Gibby, C. W., MSc PhD *Lond*, FRIC,
FSA Lectr.
Glockling, F., BSc PhD *Brist*. Lectr.
Weston, M., MA *Camb*, PhD *Leeds*
(Radiochem.) Lectr

Shearer, H. M. M., BSc PhD *Glas* Lectr
Lyle, S. J., MSc *Belf*, PhD *Birm*
(Radiochem) Lectr
Chambers, R. D., BSc PhD Lectr
Wade, K., BSc PhD *Nott*. Lectr
† Res Fellow, † Res Asst

Classics and Ancient History

Woodcock, E. C., MA *Camb*. (Latin) Prof.
Skemp, J. B., MA *Camb*, PhD *Edn*
(Greek) Prof.
Wright, R. P., MA *Camb*., FSA Sr. Lectr.
Collinge, N. E., MC, MA *Camb* Sr. Lectr
Williams, R. T., MC, MA *Wales* Sr. Lectr
Badian, E., MA *N Z* & *Oxon*,
DPhil *Oxon* Lectr.
Bargrave-Weaver, D., MA *Camb*, PhD Lectr.
Jenkinson, Edna M., MA PhD *Camb* Lectr
Mills, K. W., MA *Oxon*. Lectr
Dickinson, R. J., BA *Camb* & *Durh* Lectr.
Sandys-Wood, A. L., BA *Brist*, MA *Camb*,
BLitt *Oxon*. (Anc. Hist.) †Lectr.

Divinity, see Theol

Economics, see Soc. Studies

Education

Eaglesham, E. J. R., MA *Bed Edn*,
LLB *Lond* Prof
Grant, J. J., CBE, MA *EdB Glas*,
Hon. DCL Dep. to Hd. of Dept
Willatt, J. F., TD, MA *Camb*, MEd Sr. Lectr

* See footnote to p. 877.

Tallentire, Mrs Ethel M, BSc
 Hewitt, E. A., BA *Brist*, MEd
 Calvert, Florence I., MA *Sheff*
 Hartop, B. B., MA BEd *Edm*
 Turner, S., BSc
 May, P. R., BA *Manc*
 Bowcott, E., MA
 Pennington, A., BSc *Manc*, MEd
 3 Lectrs †

Egyptology, see Oriental Studies

English Language and Literature

Leech, C., MA PhD *Lond* Prof
 Smithers, G. V., MA *Oxon* (E. Lang) Prof.
 Brooke, N. S., MA *Camb.* Lectr
 Foakes, R. A., MA PhD *Birm.* (on leave) Lectr
 Ivy, G. S., MA *Camb & Prin*,
 PhD *Lond* Lectr
 Cunningham, J. S., BLitt *Oxon*, BA Lectr
 Preston, Priscilla J., MA *Lond* Lectr
 Lever, J. W., MA *Oxon* Temp Lectr
 Curtis, Mary M., MA PhD *Manc* †Lectr

French

Lough, J., MA PhD *Camb* Prof.
 Allen, L., MA *Manc* Sr Lectr
 Wilson, D. B., MA *Camb*, DUParis Lectr
 Mossop, D. J., MA *Cape T*, DUParis Lectr
 Marshall, J. H., MA *Oxon* Lectr
 Kearns, E. J., BA DPhil *R'dg.* Lectr
 Anderson, R., MA *Aberd.* Lectr
 Scott, Ethleen M., MA *Lond* Hon Lectr
 1 Lecteur, 1 Lectrice

Geography

Fisher, W. B., BA *Manc*, DUParis, FRAI Prof
 Bowen-Jones, H., MA *Camb* Sr Lectr
 Holmes, C. W., MA Lectr
 Dewdney, J. C., MA *Edm.* Lectr
 Clarke, J. I., MA PhD *Aberd* Lectr
 Proudfoot, V. B., BA PhD *Belf* Lectr
 Willmott, S. G., BSc *Lev*, PhD *Liv & Camb*
 (Soil Sci) Lectr
 Sunderland, E., MA *Wales*, PhD *Lond*
 (Anthropol) Lectr
 Slater, L., MA *Camb* Hon Lectr.
 1 Res. Asst.

Geology

Dunham, K. C., SD *Haw.*, PhD DSc, Prof
 FRS
 Hopkins, W., PhD DSc, FGS Lectr
 Phillips, R., BSc *Leeds*, FGS (Mineral) Lectr
 House, M. R., MA *Camb*, PhD Lectr
 Bott, M. H. P., MA PhD *Camb*
 (Geophys.) Lectr
 Emeleus, C. H., MSc *Belf*, DPhil *Oxon* Lectr
 Johnson, G. A. L., BSc *Phd* Lectr
 Hirst, D. M., BSc PhD *Manc.*
 (Geochem.) Lectr
 Whitworth, T., MA DPhil *Oxon.* Hon Lectr
 1 Res. Asst., 1 L.C.I. Fellow, 1 Res. Fellow

German

Scott, D. F. S., MA *Lond.*, DrPhil *Gott.* Prof.
 Orton, G., MA *Oxon* Sr Lectr
 Morrall, E. J., MA *Lond.* Lectr
 Smeed, J. W., MA PhD *Wales* Lectr
 1 Lektor

Hebrew, see Oriental Studies

History

Hughes, E., MA *Manc* (Mod H) Prof
 Offer, H. S., MA *Camb* (Mediæv H) Prof
 James, M. E., MA *Oxon* Sr Lectr
 Harriss, G. L., MA DPhil *Oxon* Lectr
 Ellis, K. L., MA DPhil *Oxon* Lectr
 Anstey, R. T., MA *Camb*, PhD *Lond* Lectr
 Wallace, W. V., MA *Glas & Lond* Lectr
 Lowe, C. J., BA PhD *Lond.* †Lectr

Mathematics

Reuter, G. E. H., MA *Camb* (Pure M) Prof.
 Stewartson, K., MA PhD *Camb*
 (Appl M) Prof
 Baxter, E. F., MA *Camb*, MSc *Lond* Sr Lectr
 Kurth, O. E. W. R., PhD *Bene* Sr Lectr
 Smith, R. A., BSc *Syd.*, MA PhD *Camb.* Lectr
 Atkin, A. O. L., MA PhD *Camb* Lectr.
 Wilson, D. H., MSc *Lond* Lectr
 Armitage, J. V., BSc PhD *Lond* Lectr
 Hawgood, J., BA DPhil *Oxon.* Lectr
 Riley, N., BSc PhD *Manc* Lectr
 Shoesmith, D. J., BA *Camb* Lectr
 Holgate, S., MA PhD Hon Lectr

Music

Hutchings, A. J. B., BA BMus PhD *Lond*,
 FTCL
 Dickinson, A. E. F., MA BMus *Oxon* Sr. Lectr
 Harman, R. A., BMus Lectr
 Robinson, M. F., MA BMus *Oxon* Lectr

Oriental Studies

Thacker, T. W., MA *Oxon*
 (Semitic Philol) Prof
 Rawson, P. S., MA *Lond.*
 Curator of Gulbenkian Museum
 Macadam, M. F. L., BA DPhil *Oxon*,
 FSA (Egyptol) Reader
 Simpson, C. G., BA *Lond* (Turkish) Reader
 Thornhill, Rev. R., MA (Hebrew) Lectr
 Bagley, F. R. C., MA *Oxon* (Persian) Lectr
 Hill, R. L., MA BLitt *Oxon* (Nr. E Hist) Lectr.
 Barnes, A. C., BA *Lond*
 (Chinese Lang and Civ) Spalding Lectr
 Basu, A., MA *Cale*
 (Indian Philos) Spalding Lectr
 Dabbagh, H. M. A., BA *Lond* (Arabic) Lectr
 Kuhn, K. H., BA PhD (Hebrew) Lectr
 Haywood, J. A., MA *Sheff.*, BMus
 (Arabic) Lectr

Paleography and Diplomatic

Fagg, J E, MA <i>Camb</i>	Reader
Scammell, G. V., MA <i>Camb</i>	Lectr.
Hudleston, C R., MA, FSA	† Lectr
Snap, M G, MA <i>Camb</i>	Asst. Keeper
Million, N. M., BA <i>Oxon</i>	Asst. Keeper
Doig, R P., MA PhD <i>St. And</i>	Asst. Keeper
1 Asst.	

Persian, see Oriental Studies**Philosophy**

Grant, C K, MA DPhil <i>Oxon.</i>	Prof
von Leyden, W, DPhil <i>Florence & Oxon</i>	Sr Lectr
Bretherton, Doreen G., BA PhD <i>Lond.</i>	Lectr
Lyon, A J, BA <i>Camb</i>	(Philos of Sci) Lectr
...	(Hist of Sci) Lectr
Taylor, Mrs Mabel H., BA <i>W. Aust.</i>	† Lectr.
MA <i>Oxon</i>	

Physics

Rochester, G D, MSc PhD, FRS, FIP	Prof
Chalmers, J A., MA PhD <i>Camb</i> ,	
BSc <i>Lond</i> , FIP	Reader
Prowse, W A, TD, BSc PhD	
(Appl. Electr)	Reader
Wolfendale, A W, BSc PhD <i>Manc</i>	
(Nuclear P)	Sr Lectr
Corner, W D, BSc PhD <i>Leeds</i>	Sr Lectr
Major, J V, BSc <i>Manc</i>	Lectr
Hutchinson, W C A, BSc PhD	Lectr
Apostolakis, A, BSc <i>Athens</i> , PhD <i>Manc.</i>	Lectr.
Ashton, F, BSc <i>Manc</i> , PhD	Lectr
Taylor, K N R, BSc PhD <i>Birm</i>	Lectr
Williamson, E Marjorie, MSc PhD <i>Lond</i>	Hon Lectr
1 Res Asst, 1 Res Fellow	

Physics, Applied

Wright, D A, DSc <i>Birm</i>	Prof.
Woods, J., BSc PhD <i>Lond.</i>	Lectr
Morant, M J, BSc PhD <i>Lond.</i>	Lectr
Thorp, J S, BSc <i>Sheff</i>	Lectr
1 Res. Asst.	

Politics, see Soc Studies**Psychology**

Smith, F V., MA <i>Syd.</i> , PhD <i>Lond.</i> ,	
FBPS	Prof
Graham, D., MA BSc(Econ) <i>Lond.</i> ,	
EdB <i>Glas.</i>	Sr Lectr.
Howard, I. F., BSc <i>Manc</i>	Lectr
Hendry, D. P., MA <i>Edin</i>	Lectr.
Baker, C., BA <i>Lond</i> , MA <i>Lvo</i>	Lectr
Thomson, R., MA <i>Oxon</i>	† Lectr
Ramsay, S. G., BSc <i>Edin</i>	† Lectr
2 Res Assts.	

Russian

Harrison, W., BA <i>Camb.</i>	Lectr
-------------------------------	-------

Social Studies

Morris-Jones, W H, BSc(Econ) <i>Lond.</i>	
(Pol Theory & Instrns)	Prof.
Allen, E., MA <i>Sheff</i>	(Econ) Reader
Odber, A. J, BA <i>Manc.</i>	Dir., Business Res Unit
Bismhead, P. A., MA DPhil <i>Oxon</i>	(Pol) Sr. Lectr.
Moos, S, MA	Lectr.
Byatt, I C R, BA <i>Oxon</i>	(Econ) Lectr
Atkinson, G C., MA <i>Manc</i>	(Pol.) Lectr.
Blau, L., BL PhD <i>Edin.</i>	(Law) Lectr.
Cullingworth, J B, BSc <i>Lond</i>	
(Soc Admin)	Lectr
Elkan, W, BSc(Econ) PhD <i>Lond</i>	(Econ.) Lectr
Boyle, A J, LL.M <i>Lond</i>	(Law) Lectr
4 Res Assts	

Spanish

Brooks, J L, BA <i>Dub</i>	Reader
Cabañas, P, DUMadrid	Lectr
Strong, E B, BA <i>Manc.</i>	Lectr
1 Lector	

Theology

Turner, Canon H E W, MA DD <i>Oxon</i>	Van Mildert Prof.
Evans, Rev C F, MA <i>Camb.</i>	Lightfoot Prof
Anderson, Rev G W, MA <i>St. And & Camb</i> ,	
Hon DD <i>St And</i>	(O T) Prof
Barrett, Rev C K, MA DD <i>Camb</i> , FBA	Prof
Whitehouse, Rev W A, MA <i>Camb.</i> & FBA,	
BLitt <i>Oxon</i> , DD <i>Edin</i>	Reader
Cranfield, Rev C E B, MA <i>Camb</i>	Lectr
Jones, Rev D R, MA <i>Oxon</i>	Lectr
6 Lectrs	†

Turkish, see Oriental Studies**Zoology**

Davies, L, BSc <i>Wales</i> , PhD	Prof.
Ashby, K R, MA <i>Camb</i> , PhD <i>Sheff</i>	Sr Lectr
Phillipson, J, BSc PhD	Lectr.
Wood, D W, BSc <i>Lond</i> , PhD <i>Glas</i>	Lectr
Coulson, J. C., BSc PhD	Lectr.

EXTRA-MURAL DEPARTMENT

104 Tutors employed, of whom 6 (named below) are on the staff of the Extra-Mural Dept. and 48 are members of the Univ Internal Staff

Dir of Extra-Mural Studies T. F Daveney, BA *Lond* Staff Tutors D. S Reid, MA PhD *St. And*, P R Kamm-Caudle, BSc (Econ) *Lond.*, J R. Tull, MA *Oxon.*; J. H Benson, BA *Manc*; Margaret E Bradshaw, BSc *Leeds*, B Dobson, BA PhD. Sec of Northern District of W.E.A C H Hocking, BA.

ADMINISTRATIVE AND OTHER STAFF

Asst Treasurer of the Durham Colls B Durham Colls Beatrice Hollingworth, BCom ;
 Cooke, BA Lond Bldgs Officers Col D M Jean M Hodgson, BA Lond Dep Librarian
 Eley ; G Collard, BSc Lond. Asst Secs of the G S Darlow, MA Camb

THE COLLEGES

UNIVERSITY COLLEGE (for men). Founded 1833 Students live in Durham Castle and Lumley
 Castle, near Chester-le-Street Students in residence (1960-61), 277 Telephone Durham 2488

Master—L. Slater, MA Camb. (*Hon. Lectr Geog*)

Vice-Master	Dewdney, J C, MA Edin (<i>U Lectr Geog</i>)
Prowse, W A., TD, BSc PhD (<i>U. Reader Phys.</i>)	Emeleus, C H., MSc Belf., DPhil Oxon (<i>U. Lectr Geol.</i>)
Sr. Tutor	Harriss, G L., MA DPhil Oxon (<i>U Lectr Hist</i>)
Thomson, R., MA Oxon (<i>U. †Lectr Psychol.</i>)	Mossop, D J., MA Cape T., DUParis (<i>U Lectr French</i>)
Bursar	Wilson, D B., MA Camb, DUParis (<i>U Lectr French</i>)
Ramsay, S G., BSc Edin. (<i>U. †Lectr Psychol</i>)	
Tutors	Lowe Librarian
Ashby, K. R., MA Camb., PhD Sheff (<i>U. Lectr Zool</i>)	Hall, A T., MA Leeds (<i>U. Asst Librarian</i>)
Atkin, A. O L., MA PhD Camb. (<i>U Lectr. Maths.</i>)	Chaplain
Bott, M. H P., MA PhD Camb (<i>U. Lectr Geol</i>)	Griffith, Rev. G G., MA

HATFIELD COLLEGE (for men). Founded 1846. Students in residence (1960-61), 248
 Telephone Durham 4261-2.

Master—T. Whitworth, MA DPhil Oxon. (*Hon. Lectr. Geol*)

Vice-Master	Darlow, G. S., MA Camb, FLA (<i>Dep Librarian</i>)
Fisher, W. B., BA Manc., DUParis, FRAI (<i>Prof. Geog</i>)	Johnson, G. A L., BSc PhD (<i>U. Lectr. Geol</i>)
Sr Tutor	Kohnstam, G, BSc PhD Lond (<i>U. Sr. Lectr Chem.</i>)
Sandys-Wood, A L., BA Brist., MA Camb, BLatt Oxon. (<i>U. †Lectr Anc Hist</i>)	Proudfoot, V B, BA PhD Belf. (<i>U. Lectr Geog.</i>)
Bursar	Willmott, S. G, BSc Liv, PhD Liv & Camb (<i>U Lectr Geog</i>)
Hudleston, C R, MA, FSA (<i>U. †Lectr Paleog & Diplomatic</i>)	Librarian
Tutors	Doig, R. P., MA PhD St. And (<i>Asst. Keeper Paleog & Diplomatic</i>)
Byatt, I. C. R., BA Oxon. (<i>U. Lectr Econ.</i>)	Chaplain
Clarke, J. I., MA PhD Aberd. (<i>U. Lectr. Geog.</i>)	Griffith, Rev G G, MA

GREY COLLEGE (for men) Founded 1959 The main block came into use in 1961 The coll will ultimately house over 300 students Students in residence (1960-61), 82 Telephone Durham 4238

Master—S. Holgate, MA PhD (*Hon. Lectr Maths*)

Sr. Tutor	Tutors
Pennington, A., BSc Manc., MEd (<i>U. †Lectr. Educn</i>)	Armitage, J V., BSc PhD Lond (<i>U. Lectr Maths</i>)
Bursar	Hartop, B B., MA BEd Edn (<i>U Lectr. Educn.</i>)
Lowe, C. J., BA PhD Lond. (<i>U. †Lectr. Hist.</i>)	Wood, D W, BSc Lond., PhD Glas. (<i>U. Lectr. Zool.</i>)

ST. CHAD'S COLLEGE (for men). Founded 1904 primarily for the trg of candidates for Holy Orders in the Church of England. Students in residence (1960-61), 52 Telephone . Durham 4681.

Principal—Rev. Canon T. S. Wetherall, MA Oxon.

Vice-Principal and Chaplain
Popplewell, Rev D. L., MA Oxon.

Tutors
Collinge, N. E., MC, MA Camb (U. Sr. Lectr.
Classics)
Mon, Rev J. H. M., MA Oxon.

ST. JOHN'S COLLEGE (for men). Founded 1909 primarily for the trg of candidates for Holy Orders in the Church of England. Students in residence (1960-61), 151. Telephone . Durham 2306.

Principal—Rev. Canon J. P. Hickinbotham, MA Oxon

Vice-Principal
Reeve, Rev R. E., MA BD

Chaplain
Cockerton, Rev. J. C. P., MA
Tutors
Condor, Rev P. N. C., MA
Nixon, Rev R. E. N., MA

Censor
Read, Rev W. N., MA

BIDE COLLEGE (for men). Founded 1841. Training coll. under Ministry of Educn. recognized as a coll. of the Durham division of the univ. Univ. students in residence (1960-61), 61 Telephone Durham 3447

Principal—K. G. Collier, MA Camb, Vice-Principal—G. N. G. Smith, MA

ST. CUTHBERT'S SOCIETY (for men). Founded 1871. Body of non-collegiate men students. Students in residence (1960-61), 279 Telephone Durham 2776

Principal—J. J. Grant, CBE, MA EdB Glas, Hon. DCL

Resident Tutor
Holmes, C. W., MA (U. Lectr. Geog.)

Tutors
Blair, L., BL PhD Educn. (U. Lectr. Law)
Cunningham, J. S., BLitt Oxon., BA (U. Lectr. Engl.)
Glockling, F., BSc PhD Brist. (U. Lectr. Chem.)
Hewitt, E. A., BA Brist., MEd (U. Lectr. Educn.)
Hutchinson, W. C. A., BSc PhD (U. Lectr. Phys.)
Ivy, G. S., MA Camb & Prin., PhD Lond. (U. Lectr. Engl.)

Moos, S., MA (U. Lectr. Econ.)
Orton, G. (U. Sr. Lectr. German)
Phillips, R., BSc Leeds, FGS (U. Lectr. Geol.)
Scammell, G. V., MA Camb (U. Lectr. Palaeog. & Diplomatic)
Shearer, H. M. M., BSc PhD Glas. (U. Lectr. Chem.)
Snape, M. G., MA Camb (Asst. Keeper Palaeog. & Diplomatic)

Chaplain
Bevan, Rev R. J. W., BA

ST. MARY'S COLLEGE (for women). Founded 1899. Students in residence (1960-61), 143. Telephone . Durham 3533

Principal—E. Marjorie Williamson, MSc PhD Lond. (Hon. Lectr. Phys.)

Tutors
Curtis, Mary M., MA PhD Manc. (Sr. Tutor, U. Lectr. Engl.)
Jenkinson, Edna M., BA PhD Camb. (U. Lectr. Classics)
Calvert, Florence I., MA Sheff. (U. Lectr. Educn.)
Cramp, Rosemary J., MA BLitt Oxon. (U. Lectr. Archaeol.)
Offler, Mrs. Betty E., MA Oxon.

Tallentire, Mrs. Ethel M., BSc (U. Lectr. Educn.)
Chilton, Elsa, BA (Sec.)

Bursar
Klumper, H. Christina

Chaplain
Bevan, Rev. R. J. W., BA

ST AIDAN'S COLLEGE (for women) Founded 1947 Body of non-collegiate women students
Students in residence (1960-61), 92 Telephone Durham 2470.

Principal—Ethleen M. Scott, MA *Lond.* (Hon Lectr French)

Vice-Principal Laybourne, Mrs Helen, MA *Oxon*
Taylor, Miss Mabel H, BA *W.Aust.*, MA *Oxon* Sladden, Elizabeth M, BA (*Sec*)
(U Lectr Philos)

Tutors
Bromhead, Mrs Evelyn, MA Chaplain
Chalklin, Kathleen M, MSc *Wales* (U Lectr. Bot.) Bevan, Rev R J W, BA

LICENSED HALLS OF RESIDENCE

(Training colls under Ministry of Educn licensed by the council of the Durham Colls as places of residence for students reading for degrees in the Durham division of the univ)

ST. HILD'S COLLEGE (for women) Founded 1858 Univ students in residence (1960-61), 41
Telephone Durham 3491

Principal—Nina M. E Joachim, MA *Oxon*

NEVILLE'S CROSS COLLEGE (for women) Founded 1921. Univ. students in residence (1960-61), 47
Telephone Durham 2325

Principal—Mary Whitley, BA *Lvo.*

GENERAL INFORMATION

The univ was founded in Durham in 1832 after two abortive attempts in earlier centuries. Halls of residence were opened and were later recog. as constituent colls at various times during the course of the last hundred yrs. Women have been admitted to Durham since 1896 and non-collegiate students since 1871. Until 1946 all Durham Colleges' students lived in coll, but post-war expansion has made this impossible, and approx one-fifth of the total number live in licensed lodgings as members of St Cuthbert's Soc (men) or St Aidan's Coll (women). Teaching is organized centrally, and all colls and socs. take students for all courses. St Chad's and St John's Colls are also recog. theol colls of the Church of England, and provide full postgrad trg for ordination candidates.

Various depts of the division are now housed in different parts of the city, and a plan showing their position is publd in the *Durham Colleges Handbook* INCOME (1959-60) £590,300

LIBRARY Contains more than 220,000 vols incl. 199 incunabula and extensive collections of older books, notably on patristics and Engl hist. 2 large sections, for sci and oriental studies, the latter of which contains valuable sp material, are separately housed.

LABORATORIES. Appl phys., bot, chem, geol, phys, radiochem., zool. at South Rd.; psychol at Kepier Terrace

OBSERVATORY Erected in 1841, equipped for work in astron, meteorol and seismol; library includes valuable collection of periodicals and other publcns. on these subjects.

BUSINESS RESEARCH UNIT IN DEPT. OF SOCIAL STUDIES Establd 1960 on exper basis for 5 yrs. to investigate problems in field of indust organization, with sp reference to the NE region

GULBENKIAN MUSEUM FOR ORIENTAL ART AND ARCHÆOLOGY Opened 1960 Elvet Hill, Durham

ADMISSION Those wishing to read in the Durham Colls for a degree (awarded by the Univ of Durham) must satisfy the univ matric requirements (see Appendix III). Applicants for admission should be made to the hd of one of the colls, and not to the univ office or to one of the depts.

The normal last day for the receipt of applicants is Jan 31

FIRST DEGREES (of Univ of Durham) Courses are provided for degrees of the Univ of Durham as listed below. 3 yrs.—BA in gen studies, BA in soc studies, BA hons (in classics, Engl, French, geog, German, hist, maths, music, oriental studies, philos, pol & econ., psychol., Spanish, theol), BSc in gen studies (may be awarded with hons), BSc hons. (in appl phys., bot, chem, geog, geol, maths, phys, psychol, zool.)

No pt.-time courses

HIGHER DEGREES (of Univ. of Durham). BD, DD, MA, MA(EconStudies), MLitt, MEd, DLitt, MSc, DSc, MMus, DMus, PhD For details, see p 878

DIPLOMAS Postgrad · univ dipls. in anthropology (2 yrs), Arabic (3 terms), biblical studies (3 terms), theol (6 terms), univ inst of educn's dipl in educn (1 yr)

CERTIFICATE Univ cert in bibl studies (3 terms)

ALLIANCE Relationship with fac of letters, Clermont-Ferrand, for annual exchange visits of members of staff, exchange of publications, and possible provision of lecturers and lectrices

STUDY LEAVE There is a scheme by which members of staff may obtain sabbatical leave from time to time

FEES. *Annual charges* (incl tuition, bd and lodging, and subs, but excl non-recurrent registration fee of £1) University, Hatfield, Grey and St Mary's Colls caution money, £10, arts, £255, geog, maths and psychol, £260, sci, £265 St Chad's and St John's caution money, £5, arts, £262 10s., geog, maths and psychol, £267 10s, sci, £272 10s Resident students of St Cuthbert's Society pay arts, £225, geog, maths and psychol, £230; sci, £235 Resident students of St Aidan's Coll pay caution money, £10, arts, £246, geog, maths and psychol, £251, sci, £256 For fees for matric, exams and degrees, see under 'Univ of Durham', above

AWARDS open to students entering the Durham Colls to read for a first degree 10 Foundation

PRINCIPAL BENEFACTIONS Sir Charles Haide-ridge's collection of Chinese jade

MAJOR BUILDING DEVELOPMENTS *Bldgs completed* Gulbenkian Museum of Oriental Art

NEW CHAIRS See p 880

RETIREMENTS Sir James Duff, warden of Durham Coll

RESIGNATIONS E Birnbaum (library), apptd dir, oriental library, Mich, M W Holdgate (zool), apptd asst dir, Scott Polar Res Inst, Camb, A G Mackenzie (library), apptd dep librarian, Leeds, P K C Millins (educn), apptd HMI, O T Owen (chaplain), apptd sr lectr in div, Nottingham T C, R Quirk (Engl lang), apptd to chair of Engl lang, Univ Coll, Lond, E A Salzen (psychol), apptd lectr in zool, Liv, W Sluckin (psychol), apptd. lectr in psychol, Leic

DEATHS J V Whitworth (lectr in maths)

scholps or exhibitions are awarded by exam each yr The annual value of a scholp is £70, and of an exhibition, £40. Other scholps available are the Pears, £40, Pemberton, £40, Wansbrough, £50, Horsfall (3), £40, Christopher Mather, £40, Organ (2, one each in Univ C and Hatfield C.), £40 each, Winifred Foster, £40, Ellerton, £40, Winchester, £40, Hatfield, £40, Harris, £40 All may qualify for supplementation by the Ministry of Educn

POSTGRADUATE AWARDS open to grads of other univs. see p. 808

GRADUATES' ASSOCIATIONS All the colls in Durham have old students' assocns. under various titles Further information may be obtained from the sec of the assocn at the coll concerned

STUDENT RESIDENCES All the colls provide residential accomm in coll. In addition, accomm is available for 30 men students of St. Cuthbert's Soc in the soc's premises in South Bailey

STUDENTS' SOCIETIES, CLUBS, ETC The Durham Colls students' representative council sponsor a considerable no of socs and clubs covering a wide field of activities The Durham Union Soc (for men) and the Durham Women's Union Soc organize debates and lectures by outside speakers and provide club facilities

STUDENTS' ATHLETIC FACILITIES Two groups of sports grounds are available for outdoor activity, and every coll has its own boat-house

PUBLICATIONS *Warden's Report*, Durham Colleges Handbook (Sept), *The New Durham* (students), *Palatinate* (students' newspaper)

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1153	111
Women	324	23
Total	1477	134*

Distribution by Faculties Arts, 831, educn, 192*; sci, 500, theol, 88 Total 1611

Included in the figures above are —

Postgraduate students, 376*

New admissions, 548.

Students from other countries, 49 (Countries from which largest numbers came Nigeria, 9, USA, 6, Germany, 3)

DEGREES AWARDED (by Univ of Durham) (1959-60) Arts MA, 16, PhD, 2; MLitt, 1, BA (hons), 168, BA, 94 Sci MSc, 4, PhD, 12, BSc (hons), 90, BSc, 17 Total number of first degrees awarded, 369

DIPLOMAS AWARDED (by Univ of Durham) (1959-60). DipEd, 98, DipTheol, 24

* Includes 74 MEd candidates, registered and studying in both Durham and Newcastle divisions

[Information compiled as at 25/8/61]

KING'S COLLEGE, NEWCASTLE UPON TYNE

Founded 1937 by amalgamation of the University of Durham College of Medicine (1834) and Armstrong College (1871)

Postal Address · Newcastle upon Tyne 1, England

Telephones College—Newcastle upon Tyne 28511

Sutherland Dental School—Newcastle upon Tyne 24176

CHAIRMAN OF COUNCIL—The Rt Hon THE VISCOUNT RIDLEY, CBE, DCL

RECTOR—C I C BOSANQUET, MA *Oxon* & *Camb*, Hon DCL (Pro-Vice-Chancellor of the University*)

SUB-RECTOR—Professor G H J DAYSH, BLat *Oxon*

DEAN OF MEDICINE—Professor A G R LOWDON, OBE, MA MB ChB *Edm*, FRCSEd, FRCS

REGISTRAR—E M BETTINGSON, MA *Camb*

BURSAR—H J M. SCOTT, MBE, BCom

LIBRARIAN—W. S MITCHELL, MA *Edin.*, PhD *Aberd.*

TEACHING STAFF

[†=Part-Time]

Accounting		Robson, B D, BArch	Studio Demr
Nolan, F. E. V., MA, FCA	Lectr.	Rowe, A. H	Res Fellow
Agriculture, see below		Bacteriology, see Medicine	
Anatomy, see Medicine		Botany, see also Agriculture, below	
Anthropology		Burnett, J. H., MA DPhil <i>Oxon.</i>	Prof
Meinhard, H H, DrPhil <i>Bonn</i> , FRAI	Reader	Ranson, S. L., BSc PhD (Plant Physiol)	Reader
Sheddick, V G J, BA <i>Wales</i> , PhD <i>Lond.</i>	Lectr	Clark, W. A., BSc PhD <i>St And</i> , FLS	Sr. Lectr
Powell, H A, PhD <i>Lond</i> , FRAI	Lectr	Fothergill, P G, BSc PhD	Sr. Lectr
Archæology, see Classics		Richardson, J. A., MSc PhD	Lectr.
Architecture		Moss, Betty L., MSc PhD <i>Lond</i> , FLS	Lectr
Napper, J. H., MA DipTP, FRIBA	Prof.	Walker, T. G., BSc PhD <i>Leeds</i> , FLS	Lectr
Allsopp, H B, BArch DipCD <i>Liv</i> , FRIBA	Sr Lectr	Cain, R B, BSc PhD <i>Birm</i>	Lectr
Tutley, R., MA	Lectr	Bradbeer, Mrs Patricia, BSc	
Spence, C. C., BA	Lectr		Wilfred Hall ^Fellow
Williamson, W H, MA CertArch	Lectr	Chemistry, see also Agriculture, below	
Wharfe, H, MA DipArch DipT&CP <i>Leeds</i> , FRIBA	Lectr	Wynne-Jones, W F K., BSc <i>Oxon.</i> , DSc <i>Wales</i> , FRIC	Prof, Hd of Dept.
Chalk, D. W., DipArch CertTP <i>Manc.</i>	Lectr	Baddley, J., DSc PhD <i>Manc</i> (Org C) Prof.	
Wood, H S, MA DipArch DipT&CP <i>Edin.</i>	Lectr	Weiss, J J, DEng <i>Vienna</i> , PhD <i>Lond</i>	(Radiation C) Prof
Wise, D., BArch DipTP	Lectr.	Greenwood, N N, MSc <i>Melb</i>	
Brown, H F, MC, FRIBA	Temp. Lectr.	PhD <i>Camb</i>	(Inorg C) Prof
Moody, F A., BArch	†Dir of Evening Sch	Thursk, H. R., BSc PhD <i>Lond.</i> , FRIC	(Electrochem.) Reader
		Raper, R, MA PhD <i>Camb.</i> , FRIC	Sr. Lectr

* See footnote to p. 877

Aynsley, Rev. E. E., MSc PhD DThPT,
FRIC Sr. Lectr.
Swan, G. A., DSc PhD, FRIC Sr. Lectr.
McQuillin, F. J., MA PhD Oxon. Sr. Lectr.
Beck, W. H., BSc St And Sr. Lectr.
Holden, D., MSc PhD Manc Lectr.
Stadler, H. P., BSc Lond., PhD Leeds

(Phys C) Lectr.
Trenwith, A. B., BSc PhD Lond Lectr.
Buchanan, J. G., MA PhD Camb Lectr.
Oldham, K. B., BSc PhD Manc. Lectr.
Fleischmann, M., BSc PhD Lond Lectr.
Littlewood, A. B., BA Oxon. Lectr.
Covington, A. K., BSc R'dg., PhD Lectr.
Scholes, G., BSc PhD Lectr.
Hughes, N. A., BA PhD Camb Lectr.
Jones, P., MA BSc Oxon., PhD Lectr.
Hazel, A. C., BSc Brst

British Titan Products Fellow
Little, R., BSc Frank Schon Fellow
Hardy, F. E., BSc ICI Fellow
Whiston, J., BSc D S I R Fellow
Bewick, A., BSc Ramsay Memorial Fellow
Miller, R. E., BSc PhD Res Fellow
Raybhandry, U. L., MSc Calc Res Fellow
Wicken, A. J., BSc Cape T., BA

PhD Camb Res Fellow
Wallbridge, M. G. H., BSc Lond.,
PhD Exe. Res Fellow
Briggs, G. W. D., BSc PhD (Phys C) Res Asst
Dickinson, T., BSc PhD (Phys. C) Res. Asst.
Blunsom, N. L., MSc Sheff. (Org C) Res. Asst
Johnson, G. R. A., BSc PhD

(Radiation C.) Res Asst
Bone, S. J., BSc Pang., PhD Sr. Demr.
Kelemen, Marianne V., DPhil Oxon., BSc
Sr. Demr.
Laler, Milica, DrTechScs Belgrade Sr. Demr.

Child Health, see Medicine

Classics and Ancient History

Fletcher, G. B. A., MA Camb
(Latin) Prof., Hd of Dept
Hudson-Williams, H. L., BA Wales,
MA Camb (Greek) Prof
Gillam, J. P., MA, FSA
(Roman-Brit. Archaeol.) Reader
Whittick, G. C., MA Oxon. Sr. Lectr.
Shefton, B. B., MA Oxon.
(Gk Archaeol. & Anc. Hist.) Sr. Lectr.
Sims, B. J., MA Camb Lectr.
Garton, C., MA Camb. Lectr.
Parker, Laetitia P. B., MA Camb. Lectr.
Arnott, W. G., MA PhD Camb. Lectr.
Lazenby, J. F., MA Oxon. (Anc Hist) Lectr.
Edwards, B. J. N., BA Sir James Knott Fellow

Coke Research

Marsh, H., BSc PhD Asst Chemist
Harker, H., BSc PhD Asst. Chemist

Computing Laboratory

Page, E. S., MA BSc PhD Camb. Dir.

Scoins, H. I., MA DPhil Oxon Lectr.
Eve, J., BSc PhD Lectr.
Elphick, M. J., MSc Manc. Lectr

Dental Surgery, see below

Divinity

Boobyer, G. H., BA Brst, BA BD Lond,
DTh Heidel Sr Lectr, Hd of Dept
Vermes, G., DTheol LicenHist&PhiloIOr
Louvain Lectr

Economics, see also Accounting

Dennison, S. R., CBE, MA Camb.
David Dale Prof
Petch, G. A., BCom Leeds Sr Lectr
Watkin, E. E., MA Wales Sr Lectr
Airth, A. D., BA Lectr
Zawadzki, K. K., MA St.And.,
MSc(Econ) Lond Lectr

Education

Tuck, J. P., MA Camb. Prof
McKenzie, A. W., BSc Sr Lectr.
Dobson, J. L., MA MEd PhD Sr. Lectr
Haslewood, Mrs Doreen C., MA Sr. Lectr
Hockey, S. L., MA Brst (on leave) Lectr.
Morley, Muriel E., DSc (Speech) Lectr.
Mittins, W. H., BA Lond. Lectr.
Smith, I. M., MA BSc EdB Glas,
PhD Manc Lectr
Rockett, K., MA Manc Lectr
Calvert, J. S., BA Brst Lectr
Hindmarsh, Irene, MA Oxon. Lectr
Anderson, A. C., MA Oxon. Lectr
Brown, A. Lectr
McCabe, J. J. C., BSc MEd Lectr
Pearson, Mrs Doreen, MA †Temp. Lectr
Hill, A., MSc †Temp. Lectr
Taylor, L. T., TD, MSc †Temp Lectr

Engineering, Chemical

Coulson, J. M., MA Camb., PhD Lond. Prof
Thornton, J. D., BSc PhD Brst, FRIC
(Fuel Sci) Reader
Goodridge, F., BSc PhD Lond Lectr
Murray, H. D., BSc Glas Lectr
Plimley, R. E., BSc Leeds Lectr
Peet, K. E., BSc(Eng) Lond Lectr

Engineering, Civil

Cassie, W. F., PhD St.And., MS Ill, DipTP,
MICE Prof.
Isaac, P. C. G., BSc(Eng) Lond., SM Havn,
MICE (Pub Health Engin) Reader
Williams, T. E. H., MSc Wales, PhD
(Highway & Traffic Engin.) Rees
Jeffreys Reader
Cooper, D. W., BSc(Eng) Lond
(Struct. Engin) Sr Lectr
Collinge, V. K., DIC, MSc(Eng) Lond
(Hydraulics & Hydrol) Lectr.
Geddes, J. D., BSc PhD
(Civil Engin. Materials) Lectr.

Wright, J., MSc (Struct Engin.) Lectr.
Simpson, J. R., SM *M I T*, BSc

(Pub Health Engin.) Lectr

James, A., BSc DipEd
(Pub Health Engin.) Res Asst

Tebbutt, T. H. Y., SM *M I T*, BSc
(Pub Health Engin.) Res. Asst

1 Chief Technician

Engineering, Electrical

Russell, R. L., DSc *Leeds*, FIP Prof.

Ritson, F. J. U., MSc Reader

Walley, C. A., BScTech PhD *Manc* Sr Lectr

Livingston, E. A., MSc Lectr

Short, P., MSc(Eng) *Lond* Lectr

Carter, A. O., MEng *Liv* Lectr.

Kennair, J. T., BSc Lectr.

Holt, A. G. J., DipEl PhD *S'ton* Lectr

Dineley, J. L., MScTech *Manc.* Lectr

Engineering, Mechanical and Marine,

see also Naval Archit

Burstall, A. F., MSc *Birm*, PhD *Camb*,

DSc *Msb*, Hon DSc *N U I*, MIMechE

Prof., Dir of Stephenson Engin Labs

Chambers, G. H., DSc, MSc, MIMechE

(Marine Engin.) Prof

Maunder, L., BSc *Wales*, ScD *Mass*,

PhD *Edin* (Appl Mech) Prof

Bayley, F. J., MSc PhD (Gas Dynamics) Reader

Talbott, A. C., MSc *Birm* Sr. Lectr

Robinson, F., BSc(Eng) *Lond*, MIMechE

Sr. Lectr

Gilchrist, A., BSc Sr Lectr.

Sutton, B. A., MA *Camb.* Sr. Lectr

Jones, A. W., BSc, MIMechE

(Marine Engin.) Sr Lectr

Beeley, E. W., MScTech *Manc* Lectr.

Owen, B. S., MA *Camb.* Lectr

Bartley, A. J., BSc Lectr

Walker, G., BSc Lectr

Linge, J. R. Lectr.

Porter, B., BA *Camb.* Lectr

Walker, L. A., BSc *Leeds*, PhD *Nott.* Lectr

Bullett, R. A., BSc Temp. Lectr

Engineering, Mining

Potts, E. L. J., MSc Milburn Prof

Jenkins, J. D., MSc *Wales* Reader

Robinson, H. Y., MSc Sr Lectr

Pearson, G. M., BSc Lectr

Bell, W. B., BSc Lectr.

Tomlin, N., BSc Lectr

English Language and Literature

Ure, P., MA *Liv.* Joseph Cowen Prof.

Macdonald, A., MA PhD *Edin* Sr. Lectr

Maxwell, J. C., MA *Oxon* Sr Lectr

Strang, Mrs. Barbara M. H., MA *Lond* Lectr

Gang, T. N., BLitt MA *Oxon* Lectr.

Rawson, C. J., MA BLitt *Oxon.* Lectr.

Morrison, Anthea, MA *Birm*

Sir James Knott Fellow

McPhee, J., BA Sir James Knott Fellow

Woof, R. S., BA *Oxon*, PhD *Tor*
Lord Adams Fellow

Fine Art

Rowntree, K., MA Prof., Dir of Sch

Evetts, L. C., MA

Sr Lectr., (Design) Hd of Evening Sch

McCheyne, J. R. M., DiplArt *Edin*, MA

(Sculpture) Sr Lectr., Master

Dalby, Helen A. (Textile Des.) Lectr

Dudley, G. M. (Sculpture) Lectr

Brown, Betty E. (A Educn) Lectr

Holland, R. B., MA (Hist of Art) Lectr

Hamilton, R. W. (Des) Lectr

Davy, R. A., BA *Lond* (Hist of A) Lectr

Dobson, E. J., BA (Painting) Lectr

Campbell, S., MA (A Educn) Lectr

Collier, Mrs. Mary, BA

(A Educn) †Temp Lectr

Hodgson, Louisa, MA

(Technical Method) †Teacher

French Studies

Cohn, N., MA *Oxon*, DLitt *Glas*,

FRHist Prof

Delacoucelle, Mrs. Doris W., MA *Camb*,

L&L *DUPastors* Sr Lectr

Suckling, N. C., MA *Oxon*, BA *Lond* Sr Lectr

Dubois, Mrs. Elfrida T., MA *Birm.*, Lectr.

DrPhil *Vienna*

Mason, H. T., BA *Wales*, AM *Vernont*,

DPhil *Oxon.* Lectr

Gardiner, Mrs. Jacqueline A. Z., BA *Nott* Lectr

Chevallier, Denise, L&L Dipl'd'Et Sup *Paris*

Lectrice

Geography

Daysh, G. H. J., BLitt *Oxon* Prof.

Conzen, M. R. G., MA DipTP *Manc* Sr Lectr

House, J. W., MA *Oxon* Sr Lectr

Anson, W. W., BSc Lectr

Fullerton, B., MA *Lond* Lectr

Sharp, J. I., MA *Camb*

(Geog & Surveying) Lectr.

Lister, H., PhD *Camb*, BSc

(Polar Studies) Lectr.

1 Demr

Geology

Westoll, T. S., DSc *Aberd*, BSc PhD, FRS,

FGS J B Simpson Prof, Hd of Dept

Hemingway, J. E., BSc PhD *Leeds*, FGS Prof

Shirley, J., DSc *Manc*, FGS Sr Lectr

Robson, D. A., BSc PhD, FGS Sr. Lectr.

Randall, B. A. O., BSc PhD, FGS Sr Lectr

Batley, M. H., MSc *N Z*, PhD *Camb.*,

FGS Sr Lectr

Walker, A. D., BSc *Brist*, PhD, FGS Lectr

Dearman, W. R., BSc PhD *Lond*, FGS

(Econ G.) Lectr

Murchison, D. G., BSc PhD, FGS Lectr

Jones, J. M., MSc PhD, FGS Lectr

2 Demrs

German and Scandinavian Studies

Mennie, D M, MA <i>Aberd</i> , DrPhil <i>Kiel</i>	Prof.
McFarlane, J W, MA BLatt <i>Oxon</i>	Sr Lectr
Sinclair, R F, MA <i>Edin</i>	Lectr
Ward, A, BA	Lectr
Smith, Marjorie, BA	Temp Lectr
Jensen, N L, CandMag <i>Copenhagen</i> , MA (Danish)	Lectr
Markland, Margareta, FilMag <i>Stockholm</i> (Swedish)	Lectr
Lunden, T I, CandPhil&MagArt <i>Oslo</i> (Norwegian)	Temp Lectr.
Haase, K C, DrPhil <i>Kiel</i> (German)	Lector
Speidel, E (German)	Lector

History, Ancient, see Classics

History, Modern

Burn, W L, JP, MA <i>Oxon</i>	Prof., Hd of Dept
Barrow, G W S, MA <i>St And</i> , BLatt <i>Oxon</i> (Mediev H)	Prof
Tomkiewic, Mrs Olive G, MA LLB <i>Camb</i> , BA <i>Lond</i> , FRHistS	Lectr
Taylor, Miss Joan M, BA <i>Lond</i>	Lectr
Beckingsale, B W, MA <i>Camb</i>	Lectr
Jones, J R., MA PhD <i>Camb</i>	Lectr
McCord, N, PhD <i>Camb</i> , BA	Lectr
Fawcett, Mrs Elizabeth C H, BA <i>Manc</i>	†Temp Lectr.
Harbottle, Barbara, BA <i>Camb</i>	Earl Grey Memorial Fellow

Law

Elliott, D W, LLB	Prof.
Johnson, E. L., MA LLB <i>Camb</i>	Sr. Lectr
Heath, E. J., MA BCL <i>Oxon</i>	Lectr
Clark, J. B., MA LLB <i>Camb</i>	Lectr
Stephenson, I S, MA LLB <i>Camb</i>	Lectr
Allan, P. R., MA <i>Camb</i>	Lectr
Cato, B. H., MA <i>Oxon</i> , LLB <i>Lond</i>	†Lectr
Chadwin, J A, MA <i>Glas</i> , BA <i>Oxon</i> , LLB <i>Lond</i>	†Lectr

Mathematics

Green, A E., MA PhD ScD <i>Camb</i> , FRS	
	(Appl. M.) Prof
Bonsall, F F, MA <i>Oxon</i>	(Pure M.) Prof
Gilbert, C., BSc PhD <i>Lond</i> .	(Appl M.) Reader
Goldie, A W, MA <i>Camb</i>	(Algebra) Reader
Mitchell, K, BA PhD <i>Camb</i>	Sr Lectr
Hartrop, R, MA PhD <i>Camb</i>	Sr Lectr
Wilkes, E W, MA BSc <i>Oxon</i>	Lectr
Wassermann, G D, BSc PhD <i>Lond</i>	Lectr
Evans, D A., BSc <i>Birm</i> , PhD <i>Camb</i>	
	(Stats) Lectr
Chadwick, Mrs. Mary, BSc <i>Liv</i>	Lectr
Reiter, H., MA PhD <i>Rice</i>	Lectr
du Plessis, N, MSc <i>Rand</i> , PhD <i>Camb</i> .	Lectr
Edwards, D A., MA DPhil <i>Oxon</i>	Lectr
Carter, R W, BA <i>Camb</i>	Lectr
Lennox, S C, PhD <i>Edsn</i> , MSc	Lectr
Page, A., BSc <i>St And</i> , PhD	Lectr
Fox, N., BSc PhD <i>Lond</i>	Lectr
3 Dcmrs	

Metallurgy

Petch, N J, BSc PhD <i>Lond</i> , DMet <i>Sheff</i>	William Cochrane Prof
Parkins, R N, BSc PhD	Reader
Tylecote, R F, MA <i>Camb</i> , MSc <i>Manc</i> , PhD <i>Lond</i> , FIM	Sr Lectr
Gilchrist, J D, BSc PhD <i>Glas</i>	Lectr
Thorley, N, BSc PhD <i>Leeds</i> , FIP (Metal Phys)	Lectr
Maxwell, D, MA <i>Camb</i>	Lectr.
Hardie, D, BSc PhD	Lectr.
Wraith, A E, BSc <i>Leeds</i>	Lectr
Meakin, J D, BSc PhD <i>Leeds</i>	I C I. Res. Fellow

Music

Burns, C, MA MusB <i>Camb</i> , MusDoc <i>Edin</i> , FRAM	Sr Lectr, Dir of Dept
Hudson, F., DMus, FRCO	Lectr.
Barlow, D F, MA MusB <i>Camb</i>	Lectr

Naval Architecture and Shipbuilding

Buirill, L C, MSc PhD	Prof, Dir of Res Labs
Emerson, A, MSc	(Ship Hydrodynamics) Reader, Asst Dir
Muckle, W, MSc PhD	Reader
Munro-Smith, R, MSc	Sr. Lectr
Townsin, R L, BSc PhD	Lectr
Chilton, M, MSc	Lectr
Robson, W, BSc(Eng) <i>Lond</i>	Res Asst
Leathard, F I	Res Asst
Mars, G P	Res Asst
Glover, E J, BSc	Res Asst

Philosophy, Mental and Moral

Britton, K W, MA <i>Camb</i> , AM <i>Harv</i> .	Prof
Midgley, G C J, MA BPhil <i>Oxon</i> .	Lectr
Strang, C, MA BPhil <i>Oxon</i> .	Lectr

Physics

Runcorn, S. K., MA <i>Camb</i> , PhD <i>Manc</i> , FIP	Prof, Dir of Dept
Rushbrooke, G. S., MA PhD <i>Camb</i>	(Theoret P) Prof
Hindmarsh, W R, MA DPhil <i>Oxon</i>	Prof
Schneider, E E, DrPhilNat <i>Freib</i> , FIP	(Solid State P) Reader
Darbyshire, O., MSc <i>Manc</i> , FIP	Sr. Lectr
Roscoe, R, BSc PhD <i>Lond</i> , FIP	Sr. Lectr.
Bolton, H C, BSc PhD <i>Lond</i>	Sr Lectr.
Littlefield, T A, BSc PhD	Sr Lectr.
Thorley, N, BSc PhD <i>Leeds</i> , FIP	Sr. Lectr.
Lowes, F J., BSc PhD <i>Manc</i>	Lectr
Parry, J H, MA <i>Oxon</i> , PhD <i>Camb</i> ., FGS	Lectr
Creer, K M, MA PhD <i>Camb</i>	Lectr
Tozer, D C, BSc <i>Brist</i> , PhD <i>Camb</i> (on leave)	Lectr
Roberts, P H, MA PhD <i>Camb</i>	Lectr
Gurney, I D C, MA PhD <i>Camb</i>	Lectr
Wood, P J, BSc <i>Lond</i> , PhD	Lectr.
Molyneux, L., BSc PhD	(Electronics) Lectr.

Nairn, A. E. M., PhD *Glas*, BSc, FGS Lectr
 Bansigur, K. G., MSc PhD *Osm* Lectr
 Allan, D. W., BA PhD *Tor* Lectr
 Thomas, E. R., OBE, MA *Camb*,
 MSc *Wales*, DCL †Hon Lectr
 Brown, A. E., BSc *Burm*, PhD I C I Fellow
 Hill, R. M., MSc *Camb* Sr Demr
 Lancaster, G., BSc Sr Demr
 Stone, D. B., BA *N Staffs* Sr Demr
 † Demr.

Physiology, see *Medicine*, below

Politics

Brown, J. M., MA *Glas*. Reader
 Hughes, E. W., MA BLitt *Oxon*. Lectr

Psychology

Smith, F. V., MA *Syd*, PhD *Lond*,
 FBPsS Prof
 Russell, D. C., BA *Lond*, AM *Harv*. Lectr.
 Graham, D., BSc(Econ) *Lond*, EdB *Glas*,
 MA *St. And.* †Visiting Lectr
 Howard, I. P., BSc *Mane*. †Visiting Lectr
 Baker, H. C., MA *Lew*, BSc *Lond*.
 †Visiting Lectr
 Thomson, R., MA *Oxon*. †Visiting Lectr
 Hendry, D. P., MA *Edin*, PhD *Yale*
 †Visiting Lectr
 Hendry, Mrs Louise S., BA *Ohio*, MS
 PhD *Yale* †Visiting Lectr

Social Studies

Lloyd, Alice K., JP, MA *Oxon*
 Lectr, Hd of Dept
 MacLeod, K. D., MA LLB *Glas* Lectr
 Watson, Angelica, MA *Aberd*
 (Appl Soc Studies) Lectr

Spanish

Reid, K. S., BA *Durh & Lond*, PhD Reader
 Blair, Mrs Jessie M., MA *Edin* Lectr.
 Taylor, A. L., BA *Sheff*. Lectr.
 Shergold, N. D., MA PhD *Camb*. Lectr.
 Cheyne, G. J. G., BA *Lond* Lectr.
 Martínez Lacalle, Guadalupe, LucenFil&Let
Madrid Lectora

Speech, see *Educn.*, and *Child Health*

Surveying

Fryer, D. H., OBE, MSc Reader
 Sharp, J. I., MA *Camb*. (Geog. & Surv.) Lectr

Town and Country Planning

Allen, J. S., BArch *Lew*, FRIBA Prof.
 Hackett, B., MA (Landscape Archt) Sr Lectr.
 Riley, C. F., MA DipArch DipTP *Mane*.
 Sr. Lectr.
 Spooner, P., DipArch *Syd*, DipLD
 (Landscape Archt.) Temp. Sr. Lectr.
 Taylor, P., DipArch DipCD *Liv* Lectr.
 Thomas, D. L., MA Lectr.
 Sutherland, A. C., BSc DipArch *Glas*. Lectr.

Melville, I. S., BArch DipCD *Liv*. Lectr
 Roberts, Mrs Nora, BArch *Lew* †Lectr.
 Buckley, R. M. †Lectr.
 Forsyth, A. R., DipTP †Lectr.
 Shill, O. W. †Lectr.
 Cato, B. H., MA *Oxon*, LLB *Lond*. †Lectr.
 Dunn, J. F. †Lectr.
 Johnson, D. H. †Lectr

Zoology

Hobson, A. D., MA *Camb*.
 Prof, Hon Dir. of Dove Marine Lab
 Bull, H. O., DSc *Lond*.
 (Marine Biol.) Reader, Dep. Dir.,
 Marine Lab
 Burt, E. T., MA PhD *Camb* (Entomol.) Reader
 Ellenby, C., DSc PhD *Lond*.
 (Plant Nematol.) Reader
 Philip, Anna U., DrPhil *Berl*, MSc Sr. Lectr.
 Shaw, J., MA *Camb* Lectr.
 Philipson, G. N., BSc PhD Lectr.
 Percy, Lord Richard C., BSc Lectr.
 Panchen, A. L., MA PhD *Camb*. Lectr.
 Allen, J. A., BSc PhD *Lond* Lectr, Zoologist
 Buchanan, J. B., BSc *Aberd*, PhD *Lond*
 Lectr., Zoologist
 Evans, F., BSc *Lond*. Lectr, Zoologist
 Stobbs, R. H., BSc PhD *Brist*. Sr. Demr.
 Sutcliffe, D. W., BSc PhD Sr Demr
 2 Demrs

AGRICULTURE AND RURAL ECONOMY

Agricultural Botany

Jones, M., MSc *Wales* Prof.
 Clark, Mrs Helena H., MSc Lectr.
 Blackburn, F., BSc Temp Lectr
 Holden, J. H. W., BSc *Wales* Lectr

Agricultural Chemistry

Thomas, B., MSc, FRIC Prof.
 Hunter, F., BSc Sr. Lectr.
 Thompson, A., MSc MS, FRIC Lectr
 Pringle, Joyce, BSc(Agr) PhD *Aberd*.
 (Soil Phys.) Lectr.
 Seeley, R. C., MSc *Lond*
 (Agric. Biochem.) Lectr.
 † Demr

Agricultural Economics

Carpenter, E. M., MA *Oxon*
 Sr Lectr, Actg Hd of Dept.
 Blake, J. G., BA Lectr
 Brayshaw, G. H., MA *Camb* Lectr
 Lord, R. F., BSc(Agric) *Lond* Lectr
 Winter, T., MSc DipAgric Lectr.
 Tansey, A. W., BSc(Agric) *Lond*. Lectr
 Robson, S., BSc Lectr
 Weeks, W. G. R., BSc Lectr.
 Dent, Katharine, BSc Asst. Lectr.

Agricultural Engineering

Faill, H., BSc Sr Lectr., Hd. of Dept
 Reece, A. R., MSc(AgricEng) Lectr.
 Grieg, D. J., BSc(Agric) *Leeds*,
 MSc(AgrEng) (Farm Mech) Lectr

Agricultural Entomology

Harrison, G. H., BSc PhD Lectr
 Ibbotson, A., BSc *Burm*, DIC, DipAgricSc
Camb Lectr.

Agriculture

Cooper, M. M., BAgSc *N Z*, BLitt
 DipRurEcon *Oxon*
 (Agric & Rural Econ.) Prof

Williams, W., DSc *Wales*
 (Crop Productn) Prof

Mann, A., BSc (Est Management) Sr Lectr
 Merridew, J. N., BSc(Agric) *Wales*, MSc
 Sr. Lectr., Dir, Coll Farm at Nafferton
 Mitchell, T. M.
 (Anat & Physiol of Farm Animals)
 †Lectr

Richard, M., BSc(Agr) *R'dg*
 MacLusky, D. S., BSc *Leeds*, PhD *Glas*
 Lectr., Asst Dir, Coll Farm at Nafferton
 †Res Fellow, †Demr

DENTAL SURGERY

Hallett, G. E. M., MDS, FDSRCS,
 FDSRCSed Dean, Dir of Dental Studies
 Lovel, R. W., DDS *Northwestern*, MDS,
 FDSRCS, FDSRCSed
 Prof., Clin Sub-Dean

Children's Dentistry

Hallett, G. E. M., MDS, FDSRCS,
 FDSRCSed Prof
 Weyman, Joan, BDS, FDSRCS Sr Lectr
 Porteous, J. R., BDS Lectr

Dental Anaesthetics

Peak, E. A., OBE, MA MD BChir *Camb*,
 FFARCS Prof.

Dental Electrotherapeutics

Chalmers, J., MBE, JP, FDSRCS †Lectr

Dental Jurisprudence and Ethics

Hallett, Prof. G. E. M., MDS, FDSRCS,
 FDSRCSed Lectr

Dental Pharmacology

Walton, J. G., BDS Lectr
 Kay, L. W., FDSRCS Lectr

Dental Prosthetics and Mechanics

Mack, A. O., MDS (Dental P) Prof
 Farrell, J. H., MDS Sr Lectr.
 McMillan, D. R., FDSRCS Lectr

Dental Radiology

Bennett, G., FDSRCS †Lectr.

Diseases of the Ear, Nose and Throat

Black, J. I. M., MD MS, FRCS †Lectr.

Medicine

Smart, G. A., BSc MD, FRCP Prof.
 Kellett, C. E., MA MD BChir *Camb*, FRCP
 †Lectr
 Jackson, F. S., BA MB BChir *Camb*, MRCP
 †Clin Teacher
 Richardson, G. O., MA MD BChir *Camb*,
 FRCP †Clin Teacher
 Strang, C., MD BS, MRCP †Clin Teacher

Operative Dental Surgery

Lovel, R. W., DDS *Northwestern*, MDS,
 FDSRCS, FDSRCSed Prof.
 Allan, D. N., DDS *Northwestern*, MDS
 Sr Lectr
 Howell, R. A., FDSRCS Lectr.
 Walton, J. G., BDS Lectr.
 Cowell, T. A., BDS Lectr.

Oral Anatomy

Tonge, C. H., TD, MB BS BDS DDS Reader
 Snell, R. S., MB BS PhD *Lond*. Lectr.
 †Demr

Oral Physiology

Jenkins, G. N., MSc *Law*, PhD *Camb*. Reader

Oral Surgery

Howe, G. L., MDS, FDSRCS †Prof
 Kay, L. W., FDSRCS Lectr

Orthodontics

Hallett, Prof. G. E. M., MDS, FDSRCS,
 FDSRCSed Lectr
 Littlefield, W. H., BDS, FDSRCSed †Lectr.
 Burke, P. H., MDS Lectr.
 Steel, G. H., BDS, FDSRCS Lectr.

Pathology (Dental School)

Rennie, I., BSc MD ChB *Glas*. Prof.
 Simpson, H. E., MDS (Oral Pathol) Sr Lectr
 Jackson, D., BDS (Oral Pathol) Lectr.

Periodontal Diseases

Howell, R. A., FDSRCS Sr. Lectr.

Practice Management

Lectr

Properties of Dental Materials

Farrell, J. H. (see D. Prosthetics) Lectr

Public Dentistry

Robinson, A. E., FDSRCS †Lectr

Surgery

Lowdon, A. G. R., OBE, MA MB
ChB *Edin.*, FRCSed, FRCS Prof
Watts, W. P. T., AFC, MB MS, FRCSed †Lectr
Jones, J. D. T., MB MS, FRCS †Clin Teacher
Feggetter, G. Y., MB MS, FRCS† Clin Teacher
Dickinson, P. H., MSc III, MB BS, FRCS †Clin Teacher

Brown, H. G., MB BS, FRCS Lectr
Warrick, C. K., MB BS DMR *Lond.*,
FRCSed, FFR (Radiol. A) †Lectr.
8 Demrs

Bacteriology

Green, C. A., MD ChB PhD DPH *Edin.* Prof
Emslie-Smith, A. H., TD, MD ChB *Aberd.*
Sr Lectr.
Poster, I. A., MB ChB *Glas.* Sr Lectr
Emslie-Smith, Mrs Muriel, MSc Lectr
Miller, T. K., MSc DThPT Lectr
Turk, D. C., BM BCh *Oxon.*, MRCP Lectr
Rose, A. H., BSc PhD *Birm.*
(Bacteriol. Biochem.) Lectr
Constable, F. L., MD BS BSc Hon. Lectr

Cancer Research

Farmer, F. T., BSc(Eng) *Lond.*, PhD *Camb.*,
FIP Hon. Member of Coll. Staff

Child Health

Court, S. D. M., MD ChB *Birm.*, FRCP
James Spence Prof
Miller, F. J. W., MD BS, FRCP
(Soc. Paed.) †Reader
Neligan, G. A., DM BCh *Oxon.*, MRCP
Walker, W., MD BS Sr Lectr
Davison, G., MD BS, FRCP
(Clin. Paed.) †Lectr.
Knox, E. G., MD BS, MRCP Lectr
Raime, D. N., PhD MB BS
(Paed. Biochem.) Lectr.
Morley, Muriel E., DSc
(Speech & Speech Pathol.) Lectr
Cooper, Christine E., MA MB BChir *Camb.*,
MRCP
†Clin. Teacher at Newcastle General
Hosp., Lectr
Wilson, S. G. F., MD ChB *Edin.*, MRCP
First Asst

†Associate Clinical Teachers

Brewis, E. G., VRD, MD BS DPH, FRCP
Heycock, J. B., MC, MRCP
Stansfield, J. M., MA MD BChir *Camb.*

Dental Surgery, see above**Dermatology**

Ingram, J. T., MD BS *Lond.*, FRCP Prof.
Bolam, R. M., MA MD BChir *Camb.*
(Clin. D.) †Lectr.
Holts, G., MD ChB *Leeds* Hon. Lectr

Diseases of the Ear, Nose and Throat

McGuckin, F., MD BS, FRCSed †Lectr.
Black, J. I. M., MD MS, FRCS †Clin Teacher
Dawes, J. D. K., BSc *Oxon.*, MD BS,
FRCS †Clin Teacher

MEDICINE

Lowdon, A. G. R., OBE, MA MB ChB *Edin.*,
FRCSed, FRCS Dean
Armstrong, C. N., MD BS BHy DPH,
FRCP †Clin. Sub-Dean

Anæsthetics

Pask, E. A., OBE, MA MD BChir *Camb.*,
FFARCS Prof
Cooper, E. A., MA MB BChir *Camb.*,
PhD *Birm.*, FFARCS †First Asst
Davison, M. H. A., MBE, TD, MD BS,
FFARCS †Lectr.
Horton, J. A. G., MB BS *Lond.*, FFARCS
†Lectr.
Stark, D. C. C., MB ChB *St. And.*,
FFARCS †Lectr.

†Clinical Teachers

Ayre, T. P., FFARCS
Murray, J. L., MB BS
Shafto, C. E., MB BS BDS, FFARCS
Mackenzie, A., MB BS, FFARCS
Tate, E. I., MB BS, FFARCS
Watts, Mrs Sarah B. W., MB BS
Wheldon, J. T., MB BS, FFARCS
Mullar, Mrs Edith J., MB BS, FFARCS
Ritchie, B. W. T., MA *Camb.*, FFARCS
Houston, Mrs. Winifred M., MB BS
Inkster, J. S., MB ChB *Aberd.*, FFARCS

Temporary Research Assistant

Essex, L.

Anatomy

Scothorne, R. J., BSc MD ChB *Leeds*,
MD *Chic.* Prof
Tonge, C. H., TD, MB BS BDS DDSc
(Oral A.) Reader
Cauna, N., MD *Latna*, MSc Reader
Barlow, T. E., MD ChB *Manc.* Sr. Lectr.
Gray, J. E., MB BS Sr. Lectr.
Snell, R. S., MB BS PhD *Lond.* Lectr

Industrial Health

Blowne, R C., MA DM *Oxon*, MRCP Nuffield Prof
 McCallum, R I., MD BS *Lond.*, MRCP Sr Lectr
 Leathart, G L., MB BChir *Camb*, MRCP Lectr
 Steel, J, BSc PhD (Occupnl Hyg) Lectr
 Newell, D J., MA *Camb*, PhD (Stats) Lectr

Medicine

Smart, G. A., BSc MD, FRCP Prof
 Owen, S G., MD BS, MRCP Sr Lectr
 Vallance-Owen, J., MA MD *Camb*, MRCP Lectr
 Brewis, E G., VRD, MD BS DPH, FRCP (Infect Dis) †Lectr
 Miller, H G., MD BS DPM, FRCP (Neurol) †Lectr
 Kerr, D N. S., MB ChB *Edin.*, MSc Wis., MRCP First Asst
 Foster, J B., MB BS, MRCP (Neurol) First Asst.
 Armstrong, C. N., MD BS BHy DPH, FRCP (Clin Med) †Lectr
 Ogilvie, A G., MD BS, FRCP (Clin Med) †Lectr.
 Boon, T. H., MD BS, FRCP (Clin Med) †Lectr
 Thompson, M., MD BS, MRCP (Clin. Phys Med) †Lectr
 Thompson, R B., MD BS, FRCP Clin Teacher
 Dewar, H. A., MD BS, FRCP †Clin Teacher
 Walton, J N., MD BS, MRCP (Neurol) †Clin. Teacher
 Pearce, G W., PhD *St And* (Neuro-Pathol) Res Fellow

Midwifery and Gynaecology

Russell, J K., MD ChB *Aberd*, FRCOG Prof
 Fairweather, D V I., MB ChB *St And* Sr Lectr
 Stabler, F E., VRD, MD BS, FRCS, FRCOG Lectr
 Snath, L M., MD MS, FRCS, FRCOG †Lectr
 Hunter, W., MD BS, FRCOG †Clin Teacher
 †Clin Teachers at Newcastle General Hosp
 Arthur, H. R., MB BS, FRCS, FRCOG
 Keralake, Dorothy M First Asst

Ophthalmology

Ingram, H V., OBE, TD, MB BS †Lectr
 Lake, L. H., MB BS, DOMS †Clin Teacher
 Howat, J M. L., MB ChB *St And*, DO DOMS *Oxon* †Clin. Teacher

Orthopaedic Surgery

Stanger, J K., MB BS, FRCS †Lectr
 Robson, P N., MB BS, FRCS †Clin. Teacher

Bremner, A E., MB ChB *St And*, FRCS †Assoc Clin Teacher
 Todd, J V., MB BS, FRCS †Assoc Clin Teacher

Pathology

Heppleston, A G., MD ChB *Manc.*, MRCP Prof.
 Heibert, Freda K., MA *Camb*, MB BS *Lond* (Chem. P.) Reader
 Latner, A L., MSc *Lond*, MD ChB DSc *Leu.*, MRCP, FRIC (Med Biochem) Reader
 Schade, R. O K., MD *Tubingen & Durh* Sr. Lectr.
 Hatt-Mercer, J., MB ChB *Edin* Sr. Lectr
 Watson, A J., MD ChB *Aberd* Sr Lectr
 Field, E J., PhD *Brist*, MD MS (Neuro-Pathol) St Lectr
 Fenton, J C B., MA MB BChir *Camb* (Chem P) Sr. Lectr.
 Pennington, R J T., BSc PhD *Bum* (Chem P) Sr Lectr
 Anderson, G S., MB BS Lectr
 Corby, C H., MB BS *Lond* (Forensic P) Lectr
 Raine, D N., PhD MB BS (Paed Biochem) Lectr
 Pearce, G. W., PhD *St And* (Neuro-Pathol) Res Fellow
 Smith, P., BSc PhD *Lond* (Biochem) Res Fellow
 4 Demrs

Pharmacology

Poole, H H †Lectr

Photography

Duncan, C. J., MA *Camb*, Dir

Physiology

Harper, A A., MA MD ChB *Aberd* Prof
 Schofield, B., MA MD BChir *Camb* Reader
 Saunders, J A., MSc PhD (Chem P) Reader
 Jenkins, G N., MSc *Leu*, PhD *Camb*. (Oral P) Reader
 Wright, D E., BSc *Lond.*, PhD Sr. Lectr
 Wynne, N A., MB BS Sr. Lectr
 Forster, Margaret G., MA BSc *Aberd*, PhD Lectr.
 Falconer, Jacqueline S., BSc *St And*, PhD *Lond* (Biochem) Lectr.
 Lake, H J., MSc PhD *Bum*. (Biochem.) Lectr.
 Catton, W. T., MSc *Sheff*. Lectr
 Scratcherd, T., MB BS Lectr
 Taylor, W., BSc PhD *Edn* Lectr
 Blair, E L., MB BS, MRCPed Lectr.
 Keeler, R., BSc PhD *Birm* Lectr

Psychological Medicine

Roth, M., MD BS *Lond*, DPM Prof.
 Smith, F V., MA *Syd*, PhD *Lond*, FBPas Consulting Psychologist

Kiloh, L. G., BSc MD BS *Lond.*, MRCP
Reader
Garside, R. F., BSc *Lond*
(Appl Psychol) Sr Lectr
Orton, R., MD *Leeds*, DPM, MRCP Lectr
Laggett, J., BSc *Lond.* Lectr
Osselton, J. W., BSc (Electronics) Lectr.
Gittins, J., MA BSc *Lond*
(Juv. Delinquency) †Lectr
Kay, D. W. K., MA DM BCh *Oxon* First Asst
Psychiatric Social Workers
Middleton, Jean G., MA *Edm.*
Brandon, Mrs Joanne, BA
Story, Isabel M.
Wassermann, Mrs. Bertha E. (Temp)
†Associate Clinical Teachers
Cuthbert, T. M., DPM
Murray, J. R., MD BS *Lond.*, DPM
Child, J. P., MA BM BCh *Oxon*, DPM, MRCP
McCoull, G., OBE, VRD, MD BS
Cobb, Kathleen B., MA *Camb*, MB ChB
DipPsychiatry *Edin*
Connell, P. H., MD BS *Lond.*
†Res Asst

Public Health

Pearson, R. C. M., MD ChB *Edm*,
DPH *Edin* & *Glas*, MRCPed †Lectr.
Stewart, R. H. M., MD ChB *Lev*.
(Hosp. Admin.) †Lectr.

Radiology

Warrick, C. K., MB BS DMR *Lond.*, FRCSEd,
FFR †Lectr
†Clinical Teachers
Davidson, S. W., MD BS, FRCP, FFR
Ramage, D., MD ChB *Manc*, DMRE *Lev*
Houston, B. D., MB BS, DMR
†Associate Clinical Teacher
Gryspeardt, G. L., MB BS *Lond.*, DMR

Radiotherapy

Thurgar, C. J. L., MB BS *Lond*, FRCS †Lectr

Surgery

Lowdon, A. G. R., OBE, MA MB ChB *Edm.*,
FRCS, FRCSEd Prof

Walker, F. C., MB ChM *Glas*, FRCS,
FRCSEd Reader
Walden, D. N., MD ChB *Brist.*, FRCS,
FRCSEd (Exper. S) Sr. Lectr.
Scott, J. E. S., MA MB BChir *Camb*,
FRCS Sr Lectr.
Mason, G. A., VRD, MB BS, FRCS
Rowbotham, G. F., BSc *Manc*, FRCSEd
(Thoracic S) †Lectr
(Neurol. S) †Lectr
Brathwaite, F., OBE, MA MB BChir *Camb*,
MSc *Manc*, FRCS (Plastic S) †Lectr
Swinney, J., MC, MD MS, FRCS
(Urol S) †Lectr
Brock, L. G., BSc MB ChB *N Z*, FRCS
Temp Lectr
McNeill, I. F., MB BS, FRCS First Asst
Hammersley, D. P., BA Mod Artist

†Lecturers in Clinical Surgery
Whyte, A. H., DSO, TD, MB MS, FRCS
Feggetter, G. Y., MB MS, FRCS
Watts, W. P. T., AFC, MB MS, FRCSEd

†Clinical Teachers

Jones, J. D. T., MB MS, FRCS
Hindmarsh, F. D., MB MS, FRCS
Dickinson, P. H., MSc *Ill*, MB BS, FRCS
Hankinson, J., MB BS *Lond*, FRCS (Neurol. S.)
Edwards, J. R. G., BSc MB BS *Lond*, FRCS
McEvedy, B. V., MA BM MCh *Oxon*, FRCS

†Clinical Teacher at Newcastle General Hosp
Rose, J. D., MB BS, FRCS

Venereology and Allied Diseases

Macfarlane, W. V., MD ChB DPH *Edm.* †Lectr

UNIVERSITY EXTENSION

Dir. of Extra-Mural Studies B. W. Abrahart,
JP, MED
Staff Tutors Elizabeth Carrick, MA *Lond*,
Constance M. Fraser, BA PhD, FRHistS,
G. Jobey, DSO, MA, FSA, A. G. Lunn,
BSc PhD, A. D. R. Tompkins, BA *Leeds*,
MLatt *Camb*, W. M. Williams, MA *Oxon*,
A. G. Wilson, BA *Manc*, R. D. Harrison,
BSc *Birm*, B. G. Foord, BSc(Econ) *Lond*,
J. H. Bescoby, BA *Nott*, MA(Econ) *Manc*.

ADMINISTRATIVE AND OTHER STAFF

REGISTRAR'S DEPT Dep Registrar: D. H.
Willson, BA *Oxon*. Asst Registrars: N. Shott,
DFC (at Med Sch); T. R. Saunders, BA *Manc*,
J. M. Brewin, MA *Camb*, D. M. Allen, MBE,
BA *Oxon* Admin Assts Mrs Margaret E.
Eve, BA *Lev*, Barbara M. Latimer, BA *Lond* (at
Dent Sch)

BURSAR'S DEPT. Finance Officer T. E.
Brown, DPA *Lond*, BCom Dep. Finance

Officer L. Scrivener Asst Finance Officer.
W. Lawson Cashier P. L. Darling Admin
Asst. Monica M. Freestone, BA *N Staffs*
Accounts Assts: J. D. Davison, A. N. Huntet,
E. R. Bell. Estates Officer R. E. Harris
Estates Asst: A. Blackburn.

LIBRARY. Dep Librarian E. F. Patterson,
MA Sr Asst Librarian Joan M. Gladstone,
BA *Lond*, FLA Asst. Librarians Winifred C.

Donkin, MA, FLA., Marjorie E Duff, MA Oxon, FLA.; Mrs Margaret Swan, BSc PhD, FGS, G M Budge, MA Manc, Joan S Emerson, MA, P Fildmore, BA, C J Hunt, BA Exe

WARDENS OF HALLS OF RESIDENCE Women Students Alfreda M Tuesdale, DipEd Lw, BSc (Ethel Williams Hall), Betty L Moss, MSc PhD Lond (Easton Hall), Margaret M Aitchison (Sub-Warden, Easton Hall), Men Students

B E Q Smith, BSc(Econ) Lond (Henderson Hall), R Hacock, MSc (Eustace Percy Hall)

HON CHAPLAIN. Rev A J Bennett, MA

WARDEN OF LODGINGS Mrs Stella Robinson, BA Leeds

DEPARTMENTAL ADMIN. ASSTS. Edith Armstrong, BA Lond (Psychol Med.), Norah S Brown, BSc (Chem.), C M. Bedford, BA Leeds (Fine Art), A. P. Muller, BCom (Extra-Mural Studies)

GENERAL INFORMATION

The Newcastle upon Tyne Sch. of Med. & Surg. was founded in 1834, became associated with the Univ. of Durham in 1852 and adopted the title of Univ. of Durham Coll. of Med. in 1870. Armstrong Coll., Newcastle upon Tyne, so named in 1904, was founded in 1871 as the Univ. of Durham Coll. of Physical Sci. In 1937 the two colls. were merged to form King's Coll., Newcastle upon Tyne, in the Univ. of Durham. The univ. court has decided to promote legislation to amend existing Univ. of Durham acts, so as to separate King's College, Newcastle, from the Univ. of Durham and to establish it as an independent univ. It is expected, therefore, that King's College will attain the status of an independent univ. during 1962-64.

INCOME (1959-60) £1,910,202

DEVELOPMENT OF COLLEGE AREA Devel. is taking place on a site not far from the city centre, around the original bldgs. of Armstrong Coll. New bldgs. completed since the war include chem. block, Stephenson bldg. (various engin. depts. and maths.), civil engin. bldg., a new arts block, an extension to the chem. block, an extension to library, extensions to halls of residence and a new phys. bldg. A new phys. res. block is nearing completion. Work has begun on new bldgs. to accomm. depts. of agric., chem. engin., electr. engin. and maths. and on extensions to students' union.

LOCATION OF DEPARTMENTS, etc., not in main college area Cocker Park Exper. Stn. (agric.), Morpeth, Northumberland, Dove Marine Lab. (zool.), Cullercoats, Northumberland, dept. of educn., 11-13 Leazes Terrace, Newcastle upon Tyne, 1, Nafferton Farm, Stocksfield, Northumberland, Sutherland Dental Sch., Northumberland Rd., Newcastle upon Tyne, 1, Close House Estate, Wylam, Northumberland

LIBRARY, approx. 250,000 vols. and approx. 65,000 pamphlets (incl. the med. libraries). There are also dept. libraries. Sp. collections: Heslop, Engl. dictionaries (277 vols.), Merz, philos., math. and general (3940 vols.), oriental, with sp. ref. to India (2762 vols., 2082 pamphlets), Gertrude Bell, oriental (1963 vols.); Robert White (c. 4000 vols.), Engl. and Scotch ballads, border hist.

MUSEUM OF ANTIQUITIES (in assocn. with Soc

2 G

of Antiquaries of Newcastle upon Tyne) houses collection of soc. and other exhibits. Opened Oct. 1959. Keeper & sec. D J Smith, BA PhD, FSA.

DEPT. MUSEUMS. Anat., pathol., dent., zool., geol., mineral., chem., mining, anthropol., Roman-British archaeol. Technol. specimens.

LABORATORIES with spec. facilities for res. in mech., marine, civil, electr. and chem. engin., naval archit., mining and metall.; in chem., phys., geol., bot. and zool. (incl. marine biol. at Dove marine lab.), and in agric. (incl. agric. engin.).

The agric. dept. manages the coll. farm at Nafferton and the coll. exper. stn. at Cocker Park, it also has the use of other county and crown estates for teaching, res. and demonstration purposes.

UNIVERSITY COMPUTING LABORATORY Housed in Newcastle upon Tyne, with a Pegasus electronic digital computing machine ('Ferdinand'). The lab. works in close contact with depts. in both divs. and is available for use by interests outside the univ. Dir. E S. Page, MA PhD Camb., BSc Lond.

ADMISSION. Those wishing to read in the coll. for a degree (awarded by the Univ. of Durham) must satisfy the univ. matric. requirements (see Appendix III). There are reduced requirements for admission to study for the univ. dipls. in econ. studies, pub. admin., for the univ. cert. in soc. studies, and for the coll. certs. in archit., fine art and town planning; candidates for admission to the cert. in soc. studies course should be over 20.

Enquiries concerning admission to non-med. depts. of the coll. should be addressed to the Registrar, King's Coll., Newcastle upon Tyne, 1, students wishing to read med. should write to the Asst. Registrar, the Med. Sch., King's Coll., and dent. surg. to the Admin. Asst., Sutherland Dental Sch., Northumberland Rd., Newcastle upon Tyne, 1.

The last dates for receipt of applns. are, for med., Nov. 30, for all other courses, incl. dent. surg., Jan. 31, preceding the Oct. of entry.

FIRST DEGREES (of Univ. of Durham) The coll. provides courses for degrees of the Univ. of Durham as listed below. 3 yrs.—BA (hons. may

be taken in Latin & Greek; Latin lang. & lit. [with Greek to final gen. standard; candidates who have been awarded honours may subsequently take a 1-yr course leading to honours in Greek], maths., Engl. lang. & lit., French, German, French & German, Spanish & Latin-American studies, Spanish and French or German; Scandinavian studies, mod. hist., geog., anthropol.; geog. & anthropol., philos., philos. & psychol., Engl. & philos., econ. & geog., econ. & anthropol., pol. & econ., pol. & anthropol., music. Also 3 yrs.—BA in econ. studies (3 or 4 yrs. for honours), BA in social studies, LLB, BSc (3 or 4 yrs. for honours in maths. [pure & appl.]; phys., chem.; geol.; geog.; zool.; bot.; physiol.), BSc in agric. (4th yr. for honours), BSc in appl. sci. (4 or 3 yrs. for honours in chem. engin., civil engin., electr. engin., marine engin., mech. engin., metall., mining engin., naval archit.) 4 or 5 yrs.—BA in fine art. 4 yrs.—BA honours in land use studies. 5 yrs.—BA in archit. studies and BArch. 6 or 5 yrs.—BDS, MB BS.

There is a prelim. transfer year for students who have not specialized in sci. at sch. but who now wish to read for a 1st degree in sci.

HIGHER DEGREES. Facilities for res. for higher degrees of the Univ. of Durham (see p. 878) 2-yr. course in agric. engin. for MSc.

TUTORIAL SYSTEM. Each non-med. student is assigned on entry to a tutor, who is responsible for advising him on his course and generally looking after his interests. The deans of the med. & dent. sch. perform similar duties for med. & dent. students.

CLINICAL INSTRUCTION. Instru. in clin. med. and surg. is given in the Royal Victoria Infirmary (830 beds) and other hospes, in practical midwifery and clin. gynæcol. at the Princess Mary Maternity Hosp. and Newcastle Gen. Hosp., in clin. dent. surg. in the Newcastle upon Tyne Dental Hosp. The pathol. museum provides an exceptional collection of specimens prepared by modern methods. Postgrad. med. and dental teaching is supervised by citées representing the coll. and assoc. hospes. Res. facilities are available in the various depts.

UNIVERSITY DIPLOMAS AND LICENCES. Educn. (DipEd) or art. educn. (art. teacher's dipl.) (1 yr. after graduation), anthropol. (usually 2 yrs. after graduation), archit. (5 yrs.); town planning (1 yr. after cert.), landscape design (1 yr.), econ. studies (2 yrs.), pub. admin. (2 yrs.), pub. health engin. (1 yr. postgrad.), highway & traffic engin. (1 yr. postgrad.), appl. electronics (1 yr. postgrad.), electr. power engin. (1 yr. postgrad.); pub. health (pt.-time, 5 terms postgrad.), psychol. med. (pt.-time, 2 yrs. postgrad.); bibl. studies (post-grad. full-time, 1 yr.; pt.-time, 2 yrs.), licence in dent. surg. (LDS, 5 yrs.).

UNIVERSITY CERTIFICATES. Biblical studies (postgrad., 2 yrs. pt.-time or 1 yr. full-time), soc. studies (2 yrs.).

COLLEGE CERTIFICATES. Appl. soc. studies (1 yr. postgrad.); fine art. (2-3 yrs., pt.-time), archit. (5 yrs., pt.-time), town planning (1-2 yrs. full-time or 2-3 yrs. pt.-time, according to qualifs.); publ. health engin., highway & traffic engin., struct. design, prodn. engin., fuel technol., electronica, electr. power engin., coal preparation, ore dressing (each 1 yr. postgrad.).

OTHER COURSES, ETC. Dept. of fine art. exhibitions in Hatton gallery, evg. courses in many subjects. Dept. of music: concerts and recitals. Dept. of econ. studies, intending accountants may obtain exemption from professional inter. exam. by taking certain subjects in BA course. Dept. of law: articled clerks' courses for inter. and final exams. of Law Soc.

RESEARCH. In addn. to facilities indicated above (*under* Laboratories and Clinical Instruction), there are facilities for res. in various arts depts. Res. publcns. by staff are listed annually in Rector's Report.

FEES. *Fees other than med.* The following annual fees cover tuition, registration (£2 p.a. for full-time students) and exams. (as shown under Univ. of Durham, above), but do not incl. fees for matric., re-exam. and graduation, nor for students' socs. and univ. union (£6 p.a.) BA or LLB, £50, BSc in pure sci., engin., naval archit., mining, metall., or agric., £60 (for BSc honours geog. or maths. the fee for the final 2 yrs. is £50 p.a.), BA in archit. studies and BArch, £50 (4th & 5th yrs., £40), BA honours, land use studies, £50. Postgrad. study or res. with lab. facilities, £40 without lab. facilities, £30. Dipl. and cert. courses educn., £60, Univ. Inst. of Educn. art. teachers' dipl., £60, anthropol., £50, soc. studies, £50, appl. soc. studies, £69; bibl. studies, £50, econ. & pub. admin., £50, archit. dipl., £50 (4th & 5th yrs., £40), town planning, £50, landscape design, £50, spec. courses in appl. sci., £60, agric. engin. (MSc), £60. Expenses on field work will be incurred to the approx. amount stated in each yr. in which the following subjects are taken: agric., 1st-yr. students 15s., other students £2 10s., bot. for students in arts, sci. and agric., £10 (level I and 1st-yr. agric. students £2 10s., other students £12), zool., £10, geog., 1st-yr. students £8, other students £12, with additional expenses for honours students preparing regional dissertations or for field work abroad; geol., 1st-yr. students £4, other students £15 15s., surveying (for engin. students), £15 15s.; advanced surveying (for geog. students), £15 15s., mining surveying, £20, mining (tour of mines and coalfields), £15.

Fac. of med. The following fees are annual, except where stated, and cover tuition, registration and exams. (as shown under Univ. of Durham, above), but not matric., re-exam., graduation, or students' socs. or univ. union (£6 p.a.). Systematic, practical and clin. instru. med., £60, dent. surg., £55, dipl. in pub. health, £60 (for whole course), dipl. in psychol. med., £76 (for

whole course). Various incidental fees are also payable

For fees for matric and degrees, see under Univ. of Durham, above

UNIVERSITY EXTENSION: KING'S COLL. DEPT OF EXTRA-MURAL STUDIES. Tutorial classes in various centres (most of the tutors are regular members of coll staff) Provision made for educn of national service men, who have higher educnl qualifs, stationed in the area of univ Extension lectures also given within this area.

POSTGRADUATE AWARDS open to graduates of other univs · see p 808

RESEARCH FUNDS. Various funds for the encouragement of res. are administered by the council of the coll; from these have been establd res fellowships such as the Sir James Knott fellowships and the Wilfred Hall fellowship There are also available at the med and dent schs. several funds for med., surg and dent res, e.g. William Dodds, J. W. Luccock.

RESIDENCE (For wardens, see 'Admin and Other Staff', above). For women (fees, £126 p a) Easton Hall, Eskdale Terrace, Newcastle upon Tyne, 2 (tel. Newcastle 81-0507), 75 students, Ethel Williams Hall, Eastfield Rd, Longbenton, Newcastle upon Tyne, 7 (tel. Newcastle 66-2434), 132 students For men (fees, £132 p a) Henderson Hall, Cochrane Pk, Newcastle upon Tyne, 7 (tel. Newcastle 66-1900), 90 students, Eustace Percy Hall, Freeman Rd,

Newcastle upon Tyne, 3 (tel. Newcastle 5-4001), 500 students.

STUDENTS' SOCIETIES, CLUBS, ETC. There are a large number of students' socs and clubs covering a wide range of interests and activities. The King's Coll students' representative council exists to promote these interests and activities, and the union soc provides a centre for social contacts and for various student amenities.

STUDENT ATHLETIC FACILITIES. There are 2 sports grounds, a boat-house and 2 gymnasia, providing for all forms of athletic activity, both indoor and outdoor

PUBLICATIONS. Rector's Report, King's Coll Handbook, Prospectuses of all depts, King's Coll dept of agric (farm econ branch) Reports, 10s p a, Journal of the King's Coll Agric Soc, 3s 6d per no, King's Coll Engin Soc Journal, 1s per no, King's Coll Geog Soc Journal, 2s per no, King's Coll Mining Bulletin, £1. 1s. p a, King's Coll Mining Soc Journal, 5s per no, Univ of Durham Philos Soc Proceedings, 1s per no; Planning Outlook (dept of town & country planning), 15s. p a, Univ of Durham Med Gazette, 7s 6d p a, The Northerner (student publicn), 6d per no, King's Courier (students' newspaper), 3d per no; King's Coll. S R C Students' Handbook and Diary, 4s 6d; Earl Grey memorial lectures, 1s per copy; William Henry Charlton memorial lectures, 4s 6d per copy

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS Bldgs completed extension to chem block, phys bldg, extension to library

RETIREMENTS Prof. J. B. Duguid (pathol.), Prof W B Edwards (archit), Prof C M Girdlestone (French), Prof R B Green (anat), Prof J Short (anat.); A. Stool (zool)

RESIGNATIONS Constance Braithwaite (soc studies), H J Cassells-Smith (pathol.), apptd consultant pathologist, Newcastle Gen. Hosp, Dr A P. Cave (chem engin), to industry, Mrs Margaret W. Lambert (pathol.); E Miller (civil engin), apptd to industry, D W J Morrell (admin. asst), apptd asst. registrar, Exe, M R Patchell (agric), apptd sr. lectr in appl genetics, N E.; A Pennington (educn), apptd sr tutor, Grey Coll., Durh, W. Pinkney (archit), J N Platt (child health), apptd. consultant paediatrician, Cumberland Regional Hosp Bd, F H Potts (law), G P Quinn (extra-mural studies), to teaching post, Prof E C Ryder (law), apptd prof of Engl law, Univ Coll., Lond, A S. Todd (pathol.), apptd lectr., St And, Edith A. Tyson (agric econ), Prof T W. Walker (agric), apptd prof of soil sci., Canterbury

Agric Coll, N Z, G Wall (fine art), apptd. lectr in painting, Coventry Sch of Fine Art

DEATHS G R Hanson (registrar), Prof E G Richardson (phys)

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	2905	306
Women	841	89
Total	3746	395*

Distribution by Faculties Agric, 160, appl sci, 694, arts, 1252; dent. surg., 280, econ studies, 170, educn, 237*; law, 107, med, 461, sci, 780 Total 4141.

Included in the figures above are —

Postgraduate students, 531*

New admissions (full-time), 1125

Students from other countries, 317. (Countries from which largest numbers came: Nigeria, 48, Norway, 28, Ghana, 23, India, 20)

* Includes 74 MED candidates, registered and studying in both Durham and Newcastle divisions

DEGREES AWARDED (1959-60) *Agric.* BSc (Agric), 38, BSc (hons), 6; MSc(Agric), 6, PhD(Agric), 8 *Appl sci.* BSc, 104; BSc (hons), 101; MSc, 7, MSc(AgricEng), 5, PhD, 4. *Arts* BA, 79, BA (hons), 110, BArch, 3, BArch (hons), 5; MA, 4, PhD, 3. *Econ studies* BA, 25, BA (hons), 12; MA, 1 *Educn* MEd, 4, PhD, 1. *Law* LLB, 6, LLB (hons.), 21 *Med* (incl dent surg) MB BS, 73, MB BS (hons), 5, MD, 4, PhD, 1, BDS, 24, BDS (hons), 5, MDS, 1 *Sci* BSc, 39; BSc (hons), 133, MSc, 6; DSc, 2, PhD, 20. PhD (all facs). 37. *Total number of first degrees awarded, 789*

LICENCES AWARDED (1959-60) Dent surg (LDS), 33.

DIPLOMAS AWARDED (1959-60) Archit, 7, art teacher's, 2, bibl studies, 1, econ. studies, 1, educn, 105, electr power engin, 1, highway & traffic engin., 3; landscape design, 8, numerical analysis & automatic computing, 1, psychol med, 2, pub health, 13, town planning, 10

CERTIFICATES AWARDED (1959-60) Univ. certs. bibl studies, 1; soc studies, 6.

UNIVERSITY OF EXETER*

Founded 1955; previously established as the University College of the South West of England, 1922

Postal Address: Exeter, England

Telephone Exeter 77911

VISITOR—H M THE QUEEN

CHANCELLOR—THE DOWAGER DUCHESS OF DEVONSHIRE, GCVQ, CBE, Hon. LLD

PRO-CHANCELLOR—B G. LAMPARD-VACHELL, CBE, JP, MA Camb, LLB Lond, Hon LLD

VICE-CHANCELLOR—J W COOK, DSc PhD Lond, Hon ScD Dub, Hon DURennes, FRIC, FRs

DEPUTY VICE-CHANCELLOR—Professor F. BARLOW, MA DPhil Oxon

TREASURER—R W TURNER, MA LLM Camb.

SECRETARY—R ROSS, MA(Admin) Manc.

ACADEMIC REGISTRAR—A. G. BARTLETT, MA Camb

LIBRARIAN—L. J. LLOYD, MA Camb., FRSL, FSA

TEACHING STAFF

[†=Part-Time]

Botany		Fitton, J W, BA BPhil Oxon.	Asst Lectr.
Caldwell, J, DSc Glas., PhD Glas. & Camb.		Ridgwell, Ann E, BA Lond	Asst Lectr.
Wilkinson, J, PhD Durh., FLs	Prof. Sr Lectr	Economics (Agricultural Economics)	
Proctor, M C F, MA PhD Camb.	Lectr	Exeter Province	
Tarr, S A J, BSc PhD Lond.	Lectr	Morris, S T, MSc Wales	Sr Lectr
Ivimey-Cook, R. B., BSc PhD Wales	Lectr.	Beynon, V. H., BSc(Agric.Econ) Wales	Lectr
Pritchard, G G, MSc NZ, PhD Camb	Lectr.	Luxton, H W B, BSc(Agric) Lond.,	
Robb, Sheila M, BSc Aberd	Res Asst	DipAgricEcon Oxon.	Lectr
Chemistry		Harrison, J. E, MSc(Agric) Lond	Lectr
Rydon, H N, DPhil Oxon, PhD DSc Lond.,		Cole, Helen M, BSc(Econ) Lond	Lectr
MScTech Manc, FRIC	Prof	Davies, E. T, BSc(Agric) Wales	Lectr
Gregg, S. J., DSc PhD Lond, FRIC	(Phys. C.) Reader	Davies, G D D, BSc(AgricEcon) Wales	Lectr
Schofield, K, DSc PhD Durh., FRIC	(Org C.) Reader	Langley, J A, MSc(Agric) Lond	Lectr
Long, L H., DIC, BSc Lond, PhD Lond &		Rickard, R C, BSc(Econ) Lond	Lectr
Camb	Sr Lectr	Dunford, W J, BSc(Econ) Lond	Lectr
Mason, S F., MA DPhil Oxon	Sr Lectr	Bradley, J, BA Brst	Lectr
Whitehurst, J. S, BSc PhD Lond	Lectr	Balogh, D, PScD Szeged	
Bishop, E., BSc Glas	Lectr		Sr Investigating Officer
Williams, R J, BSc PhD Lond	Lectr	Tyers, K G, BSc(Agric) R'dg	Sr Investigating Officer
Read, G, BSc PhD Nott	Lectr		
Moodie, R B, BSc PhD Lond	Lectr	Economics and Public Administration	
Barratt, G C, BSc PhD Lond	Asst Lectr	Sykes, J, OBE, MA PhD Leeds, MCom Manc.	
2 Res Fellows		Burton, H., MA Oxon	Prof
Classics		Meyer, F V, BSc(Econ) PhD Lond	Sr. Lectr.
Clayton, F. W, MA Camb	Prof	Williams, A H, BCom Brm	Lectr
Mathewson, I R D., MA Oxon	Sr. Lectr	Corner, D C, BPhil Oxon, PhD Sheff	Lectr.
Stubbs, H. W, MA Oxon.	Lectr	Hanson, P., BA Camb	Asst Lectr.
		Penney, K J, BA	Asst. Lectr

* Member of the Association of Universities of the British Commonwealth

Steer, W. S., LLB *Lond.*, DPA
(Pub Admin) Sr Lectr
Dunsire, A., MA *Edin* (Pub Admin) Lectr
Vile, M. J. C., BSc(Econ) PhD *Lond*
(Pub Admin) Lectr
Crabtree, D., BSc(Econ) *Lond*
(Pub Admin) Lectr.
Fletcher, P. J., BSc(Econ) *Lond*
(Pub Admin) Lectr
Oliver, F. R., MA *Camb*, DPhil *Oxon*
(Econ & Soc Stats) Lectr
Lewes, F. M. M., BSc(Econ) *Lond*
(Econ & Soc Stats) Asst Lectr
1 Res Fellow, 2 Res Assts

Education and Psychology

D'Aeth, R., AM *Harv*, PhD *Camb.* Prof.
Collins, D. C., MA PhD *Lond.* Sr Lectr.
Barling, T. J., MA *Birm* Lectr.
Ross, Isobel G. T., MA *Aberd* Lectr.
Winter, H. J. J., DSc PhD *Lond* Lectr.
Hourd, Marjorie L., BA *Brist*, BLitt *Oxon*.
Hill, C. F., MA *Oxon* Lectr.
Tahta, D. G., MA *Oxon* Lectr.
Staniland, A. C., BA *Lond*, PhD
(Visual E.) Lectr
Fairclough, H. D. (Phys & Health E.) Lectr
Goodwin, Doreen V. (Phys & Health E.) Lectr
Szafran, J., MA PhD *Camb* (Psychol) Lectr
Lynn, R., MA PhD *Camb* (Psychol) Lectr
Brebner, J. M. T., MA *Aberd.* (Psychol) Res Asst.

English

Merchant, Rev. W. M., MA DLitt *Wales* Prof.
Cruickwell, M. J. P., MA *Camb* Lectr.
Dexter, Kathleen M., BA *Lond.* Lectr.
Spears, J. H., BA *Camb*, MA *Aberd.* Lectr.
Suddaby, Elizabeth, MA *Oxon* Lectr.
Mason, H. A., BA *Lond.*, MA *Oxon.* & *Camb.* Lectr.
Hill, A. G., MA *St. And.*, BLitt *Oxon* Lectr.
Salter, K. W., MA *Brist.*
(overseas students) Tutor
Parkinson, R. N., MA *Camb*
(overseas students) Lectr.
Lloyd, Mrs. Vera (overseas students) †Lectr.

French with Spanish

Niklaus, R., BA PhD *Lond.*, LèsL *Lille* Prof.
Yarrow, P. J., MA *Camb*, DUParis Sr Lectr.
Duthie, Enid L., MA *St. And.*, DUParis Lectr.
Wilson, Aileen, MA *Dub*, LèsL DUParis Lectr.
Fox, J. H., BA *Lond.*, DUParis Lectr.
Fox, Mrs. Jacqueline E., LèsL *Paris* †Lectr.
Bard, J. D., BA *Lond* Lectr.
Jenkins, C., MA PhD *Dub* Lectr.
Trotter, G. D., MA *Dub* (Spanish) Lectr.
Alberich, J. M., DenLet *Madrid*
(Spanish) Lectr
1 French Asst, 1 Spanish Asst

Geography

Davies, A., MSc *Wales* Reardon Smith Prof

Shorter, A. H., MA *Manc*, PhD *Lond*,
FSA Montefiore Reader
Patterson, Mrs. Ethel J., MA *Liv.*,
PhD *Lond* Lectr
Johns, E. M., MA *Camb.* Lectr.
Ravenhill, W. L. D., MA *Wales*,
PhD *Lond.* Lectr.
Waters, R. S., MA *R'dg* Lectr.
Revesz, T., PhD *Bud* Lectr

Geology

Simpson, S., MA *Camb*, DrRerNat *Fran*,
FGS Prof.
Coe, K., BSc *Lond*, MA PhD *Dub* Lectr.
Stone, M., BSc *Liv* Lectr.
Selwood, E. B., BSc PhD *Brist* Lectr.
Thomas, J. M., BSc *Lond* Asst. Lectr

German

Garland, H. B., JP, MA PhD *Camb* Prof.
Garland, Mrs. Hertha M. L., BA *Lond* Lectr.
Coupe, W. A., BA PhD *Camb* Lectr.
van Rest, Hazel, MA *Lond* Asst Lectr.
Richards, D. J., BA BLitt *Oxon*.
(Russian) Lectr

History

Barlow, F., MA DPhil *Oxon* Prof.
Handcock, W. D., MA *Brist.*, BLitt *Oxon*
Sr Lectr.
Greenaway, G. W., MA *Camb.* Sr Lectr.
Jacobs, D., MA *Camb* †Lectr.
Youngs, Joyce, BA PhD *Lond*, FRHistS Lectr.
Clapp, B. W., BA *Lond* Lectr.
Hennessy, C. A. M., MA DPhil *Oxon*. Lectr.
Eyck, U. F. J., MA *Oxon* Lectr.
Fisher, H. E. S., BSc(Econ) *Lond*. Lectr.
Wolffe, B. F., MA DPhil *Oxon*. Lectr.
Fox, Lady Aileen, MA *Camb*, FSA
(British Archaeol.) Sp. Lectr.
Murphy, J. E., Slade Dip
(Hist. Fine Art) Lectr.

Law

Parker, C. F., MA LLB *Camb.* Bracton Prof.
Roberts, C. H., MA *Oxon* Sr Lectr.
Hall, J. S., MA LLB *Camb.* Lectr.
Connelly, C. J., LLB *Lond* Lectr.
Lasok, D., LenDr *Frib.*, LLM *Durh*,
PhD *Lond* Lectr.
Exshaw, E. Y., LLB MA *Dub* Lectr.
Bridge, J. W., LLB *Brist* Asst Lectr

Mathematics

Price, A. T., DSc *Manc* (Appl. M.) Prof.
Rees, D., MA ScD *Camb* (Pure M.) Prof.
Mulholland, H. P., MA PhD *Camb.*
(Analysis) Reader
Mallison, H. V., MA *Camb*, BSc *Lond*
Sr Lectr.
Williams, J., MSc *Wales*, PhD *Lond* Sr Lectr.
Button, Lilian G., MSc *Lond* Lectr.
Hammond Smith, D., MA PhD *Camb* Lectr.
Stone, D. J., MSc *Lond* (Mathl. Stats.) Lectr.

Klein, G, MSc PhD *Lond.*
 Duller, G A, BSc *Lond.*
 Macdonald, I G, MA *Camb*
 Beaumont, G P, MA MSc *Lond*
 (Mathl Stats) Lectr
 Tupper, B, BSc PhD *Lond.* Lectr.

Music

Moore, R., BMus *Durh.*, FRCO †Dir

Philosophy and Sociology

O'Connor, D J, MA *Chic.*, PhD *Lond* Prof.
 Hudson, Rev W D., MA BD PhD *Lond* Lectr
 Keene, G. B., BA *Birm*, BPhil *Oxon* Lectr.
 Powell, Betty, BA *Manc*, PhD *Lond*
 Mitchell, G. D., MBE, BSc(Econ) *Lond* Lectr
 (Sociol.) Sr Lectr
 Callard, M. Pauline, BCom *Lond.* (Sociol.) Lectr.
 Hewitt, Margaret, BA PhD *Lond.* (Sociol.) Lectr.
 Cormack, Una M, MA *Oxon.* (Sociol.) Lectr., Tutor

Fox, J. R., BSc(Soc) *Lond* (Sociol.) Lectr.
 Mattinson, Mary J., BA *Lond* (Sociol.) Asst Tutor

Physics

Conn, G K. T., MA *Aberd*, PhD *Camb* Prof.
 Grew, K E, DSc *Birm.*, PhD *Birm* & Reader
Camb, FIP
 Weekes, K., BSc MA PhD *Camb.* (Geophys.) Reader
 Lothian, G F, MA *Oxon*, FIP Sr Lectr
 Drabble, J R, BSc PhD *Lond* (Solid State Phys) Sr Lectr
 Portman, N A., BSc *Lond.* Lectr
 Flack, F. C, BSc PhD *Lsv.* Lectr
 Rosser, W. G. V., MSc PhD *Manc.* Lectr.
 Cousins, J E, BSc PhD *Nott* Lectr
 Meads, R E, MA DPhil *Oxon* Lectr
 Jakeways, R., BSc *Lond* Asst Lectr
 Nichol, A W, MA *Camb.* Asst Lectr

Psychology, see Educn. and Psychol

Public Administration, see Econ

Lectr. **Russian**, see German
 Lectr.
 Lectr **Sociology**, see Philos. and Sociol.
 Lectr
 Lectr. **Spanish**, see French with Spanish

Theology

Jalland, Rev T G, DD *Oxon* Hd of Dept
 Moreton, Rev M. J., BA *Lond*, MA *Oxon* †Lectr
 Balmforth, Rev Canon H, MA *Oxon* †Lectr

Zoology

Harvey, L. A., DIC, MSc *Lond.* Prof
 Hawes, R. S. J., BSc PhD *Lond.*, FLS Lectr
 Vickers, G. G., MSc *Sheff.* Lectr
 Linn, I J., BSc *Edin* Lectr.
 Sleight, M. A., BSc PhD *Brist* Lectr
 Wootton, R J, BSc *Lond* Asst Lectr

INSTITUTE OF EDUCATION

D'Aeth, Prof R, AM *Harv.*, PhD *Camb.* Actg. Dir
 Butler, C D., DIC, MA MSc(Eng) *Lond* Staff Tutor
 Collie, M, MA *Camb.* Staff Tutor
 Ross, A M, BA PhD *Lond* Lectr
 Turner, J D, MA *Manc.* Lectr

EXTRA-MURAL STUDIES

Sellon, H. G R., MA *Oxon.*
 (Internat. Pol) Prof, Hd of Dept.
 Angove, Phyllis M., BA *Lond.* Resident Tutor
 Hallowell, E., MA *Oxon.* Resident Tutor
 Harris, Mrs. Gladys, MA *Lond* Resident Tutor
 Harris, F L, OBE, MA *Oxon.* Resident Tutor
 Hollander, H, DPhil(Mus) *Vienne*
 Lewis, C A, BA *Manc* Resident Tutor
 Pim, J R, MA *Oxon* Resident Tutor
 Todd, A. C., BA PhD *Lond* Resident Tutor
 Walters, W. E., MA *Wales*, FRHistS Resident Tutor

ADMINISTRATIVE AND OTHER STAFF

OFFICE OF THE SECRETARY Asst. Secs W. J.
 Kindell, FCIS (Finance), D Severn, MA *St.*
And. (Properties & General). Chief Clerk
 (Finance) E J Brockhurst. Clerk of Works
 G A K Cooke, BSc *Durh* Supt of Grounds
 A G Crouch, Manager, Univ Refectory.
 P A V Lloyd-Bostock Admin Assts R J.
 Woodland, G S Moger, BA *Lond*, Patricia M.
 Wash, BA *Camb*

OFFICE OF THE ACADEMIC REGISTRAR. Asst
 Registrars. R. A. Erskine, BA *Birm.*, D W. J
 Morrell, MA LLB *Edin* Admin. Assts. Mrs.

Barbara Small, BA *Oxon.*, Janet B. Dyer, BA
Lond. Lodgings Officer · Mrs Louis E. Hubbard.

LIBRARY. Sub-Librarians · A A Brockett,
 BA *Lond.*, MA, FLA, Joyce Packer, BA *Lond.*
 Archivist Mrs Audrey M. Erskine, MA BLitt
Oxon, FRHistS Asst. Librarians · June Cool-
 ing, MA *Brist.*, Mary T. Claxton, BA *Lond*, MA.

WARDENS OF HALLS OF RESIDENCE. Reed Hall
 (men), C. A M Hennessy, MA DPhil *Oxon* ;
 Mardon Hall (men), D. Hammond Smith, MA
 PhD *Camb.*, Exeter Hall (men), J H Speirs,

BA *Camb*, MA *Aberd*, Crossmead Hall (men), R. Lynn, MA PhD *Camb*; Hope Hall (women), Marise Coleman Mills, BA *Lond*, Lopes Hall (women), Isobel G. T. Ross, MA *Aberd*, Thomas Hall (women), Joyce Youngs, BA PhD *Lond*, FRHistS, Birks Grange (women), Margery H. Parpoint, BSc *Lond*, Barton Place (women), M. Pauline Callard, BCom *Lond*

TUTOR TO BRADNINCH HALL (NON-RESIDENT) STUDENTS. D. Jacobs, MA *Camb*.

LAZENBY CHAPLAIN Rev R. J. H. Shutt, MA PhD *Durh*

NORMAN LOCKYER OBSERVATORY Dir.: Prof G. K. T. Conn, MA *Aberd*, BA PhD *Camb*

MEDICAL OFFICERS G. L. Stumbles, DCH, Mrs Dorothy Stumbles, MB ChB *Birm*

GENERAL INFORMATION

The Univ. of Exeter had its origin in the local demand for a centre for higher educn. in the S.W. of England in the yrs. following the great exhibition of 1851. The successful establt. of a sch. of art in 1851 was followed by the erection in 1865 of a bldg. to house a county museum, library and sch. of art as a memorial to the Prince Consort. Univ. extension lectures were organized in this bldg. and candidates prepared for South Kensington sci. and arts exams. In 1895 classes were extended and Exeter Tech. and Univ. Extension Coll. was establd., becoming in 1895 the Royal Albert Memorial Coll. The preparation of students for London Univ. external degrees began in 1901. In 1922 the coll. was reconstituted as the Univ. Coll. of the South West of England, and received its first Treasury grant as a recog. univ. instn. The residential nature of the present univ. was early establd., and there are now 9 halls of residence. In 1955 a royal charter founding the Univ. of Exeter empowered the univ. to incorporate the univ. coll.

CONSTITUTION. The supreme governing body of the univ. is the court, comprising some 230 reps. of local authorities and organizations, learned bodies, benefactors and local schs., the officers, officials and reps. of staff and grads. The court meets annually to receive reports of council and senate, pass the audited statement of accounts, appoint univ. officers, and amend or repeal statutes. The chief executive body is the council, whose members include the officers of the univ., reps. of court, senate, convocation and local authorities. Academic matters are controlled by the senate, which comprises the profs and hds. of all teaching depts. and 6 reps. of the non-professorial staff. The bds. of the 4 facs, under the chairmanship of their deans, are responsible to the senate for teaching and exams. within the facs. The deans, elected by the bds. of facs., hold office for periods of 1 to 4 yrs. The chancellor, as chief officer of the univ., presides over court and council. In her absence, a pro-chancellor acts as chairman of these bodies. The vice-chancellor, the chief academic officer, is *ex officio* chairman of senate. The registered grads. of the univ. form convocation, which elects reps. to serve on court and council, and meets annually to discuss and comment on any matters concerning the univ.

INCOME (1959-60) £531,688 (Treasury grant, 75% per cent.; grants from local authorities, 6% per cent.; fees, 13% per cent.; misc., 5% per cent.)

FACULTIES AND DEANS (1961-62) *Arts*, Prof R. Niklaus (French), *law*, Prof C. F. Parker, *sci.*, Prof D. Rees (pure maths), *soc. studies*, Prof A. Davies (geog.)

UNIVERSITY PRECINCT. Accommodation was originally provided in extensions of the Royal Albert Memorial Bldg. in Queen St. In 1906 the univ. was moved to a new bldg. in Gandy St., which is now occupied by the fac. of law, the dept. of extra-mural studies, the psychol. section of the dept. of educn., and the inst. of educn. In 1922 the Streatham estate was acquired, partly by gift of W. H. Reed, former mayor of Exeter. To this site, which now covers 200 acres on the northern side of the city, the univ. is being gradually transferred. Bldgs. already erected incl. the Washington Singer labs (1931), the Roborough library (1940), the Hatherly biol. labs (1952), the Mary Harris chapel (1958) and the Queen's bldg. (1958) housing the facs. of arts and soc. studies and the dept. of geol. Northcote House (admin. depts.), Devonshire House (guild of students) and the univ. refectory were completed and occupied in the summer of 1960.

LIBRARY. Roborough library, 130,000 books, incl. some rare editions and early printed books. The univ. is responsible for the admin. of Exeter cathedral library (20,000 vols.) and for the capitular archives, incl. the Exon Domesday and the Exeter Book.

LABORATORIES. Bot., cancer, chem., geol., phys., psychol., zool.

OBSERVATORY. The Norman Lockyer observatory, Sidmouth, became a constituent part of the univ. in 1948.

INSTITUTE OF EDUCATION (see also 'Teaching Staff', above). Gandy St., Exeter (tel. Exeter 77911). Constituent members: univ. dept. of educn. (Prof.—R. D'Aeth, AM *Harv*, PhD *Camb*), St. Luke's Coll., Exeter (men) (principal—J. L. Smeall, JP, MA), Rolle Coll., Exmouth (women) (principal—Doris E. L. Spicer, MA BCom), Associate member Dartington Coll. and Arts Centre (dept. of music educn.)

ADMISSION. See Appendix III

FIRST DEGREES. BA, BA in soc. studies, BSc, LLB—3 yrs No inter exam except in fac of law, where it is taken at end of first yr. of 3-yr LLB course. For BA, BSc and LLB the final exam. is taken in 2 parts, at end of the 2nd and 3rd yrs, except in the case of the hon's degree in fac of soc studies and the hon's degrees in geog in all facs, where pt 1 is taken at the end of first yr. Hon's degrees may be taken in the following schs: classics, Engl, French, geog, German, Greek, hist, Latin, maths, philos, Spanish (*from Oct 1963*), theol, law, bot, chem, geol, phys, psychol, zool, econ, econ hist, govt & sociol. Combined hon's degrees (2 subs) may be taken in a number of schs in the facs of arts and soc studies.

Gen hon's degrees (2 subs and 1 subssubj) may be taken in fac of sci. Gen degree in fac of soc studies may be awarded with hon's.

HIGHER DEGREES. MA (arts and soc studies), MSc, LLM, PhD, DLitt, DSc, LLD. Grads of other univs are admitted to higher degree courses for MA, MSc, LLM and PhD. The master's degree may be taken after 3 terms' study, the PhD after 6 terms' study. MSc, PhD (in sci.) open in certain circs to non-grads in fac of sci. The higher doctorates are reserved to Exeter grads of at least 7 yrs' standing.

The univ does not award **EXTERNAL DEGREES**.

DIPLOMAS. Educn, full-time, 1 yr; pt-time, 3 yrs; pub admin, soc. admin, each 2 yrs. Grad dipl in pub admin, 1 yr.

CERTIFICATES, ETC. Postgrad. cert in educn, testamur in Engl lang & lit for overseas students, each 1 yr; testamurs of proficiency in French lang and in German lang., grad cert in soc work, 4 terms.

OTHER COURSES. The univ provides courses for exams. of the Law Soc.

RESEARCH. Facilities for res. exist in all depts.

ALLIANCE. The univ has a *jumelage* with the Univ of Rennes, which provides for visits and exchanges of staff for periods up to 1 yr., and for exchange of res. information.

STUDY LEAVE. Applicants from members of staff are considered individually on their merits.

FEES. Annual composition fees (covering, where relevant, registration, matric, tuition, exam and graduation fees, but not sub for guild of students, caution money, Bradninch Hall sub., or spec charges for field studies) BA, LLB, £50; BSc, £60; MA, LLM, MSc, PhD (with lab facilities), £40; MA, LLM, MSc, PhD (without lab facilities), £30; DLitt, LLD, DSc, £30; grad dipl in pub. admin., £50; dipls in pub admin and soc admin (full-time), £50 (pt-time, £15). Cert. in educn, £60. 5s; dipl. in educn, £45 (pt-time, £15); testamur in Engl. for overseas students, £50; grad cert in soc work, £65. Dues. All full-time students are also required

to pay the following guild of students sub., £5 10s p.a., caution money, £10.

Fees at reduced rate payable by students from Devon, Cornwall, Dorset, Exeter and Plymouth.

Note—With effect from Oct 1962, annual composition fees will be increased as follows: BA, LLB, £60; BSc, £75; MA, LLM, MSc, PhD, with lab facilities, £75, without lab facilities, £60; testamur in Engl, £60; grad dipl in pub admin, £60; dipls in pub admin and soc admin (full-time), £60 (pt-time £20).

ACADEMIC YEAR Oct to June 3 terms of 10 wks each.

Dept of **EXTRA-MURAL STUDIES** (see also 'Teaching Staff', above), University, Gandy St., Exeter (tel. Exeter 77911). The dept provides lecture courses and tutorial classes throughout the counties of Devon and Cornwall, organized by 8 resident tutors, and co-operates in the organization of adult educn in the region in assocn with local educn authorities and the W.T.A. The dept also supplies civilian lects to armed forces.

SUMMER SCHOOL. The univ organizes a 3-wk summer sch in Engl. studies for overseas students annually in Aug.

ENTRANCE SCHOLARSHIPS. On the results of an annual entrance scholp. exam the univ awards open scholps (max. value, £80), open exhibitions (max. value, £40) and various closed scholps. Certain of these are recog by the Ministry of Educn as qualifying for supplementary state scholps.

POSTGRADUATE AWARDS open to grads of other univs see p. 808.

RESIDENCE (tel. 77911 unless otherwise indicated, for wardens, see 'Admin and Other Staff', above). For women (fees: £147-£150) Hope Hall, Prince of Wales Rd, Exeter, 120 students; Lopes Hall, St. German's Rd, Exeter, 125 students; Thomas Hall, Cowley Rd., Exeter, 45 students; Birks Grange, New North Rd, Exeter, 28 students; Barton Place, Wreford's Lane, Exeter, 26 students. For men (fees £152-£155) Reed Hall, Streatham Dr, Exeter, 71 students; Exeter Hall, Pennsylvania Rd, Exeter, 82 students; Mardon Hall, Streatham Dr, Exeter, 83 students; Crossmead Hall, Dunstond Hill, Exeter (tel. 54452, warden), 78 students. All students not living at home must reside in one of the halls of residence, as far as accomm permits.

APPOINTMENTS. An appts organization, under the direction of the academic registrar, advises students on careers and helps them to obtain posts on the completion of their courses.

GRADUATES' ASSOCIATION. The Exeter univ club is an assocn. of former students, and members of the univ staff. Branch orgs exist in Exeter, London, Bristol, Plymouth and Birmingham. An

annual Easter reunion is held in one of the univ halls of residence. The club publishes a bulletin.

STUDENTS' UNION The guild of students is the official orgn of the students of the univ and membership is compulsory on all full-time students. The subscription covers membership of the athletic union clubs and other student socs affiliated to the guild. The guild council makes rules for the admin of the guild subject to the approval of the senate, and represents the students of the univ in relations with the univ authorities and other bodies.

PUBLICATIONS *Univ Calendar* (Oct), 10s soft covers, 12s. 6d hard covers, *univ Prospectus* (free) (Sept), *Syllabuses* of courses in arts, law, sci, soc. studies, 1s each (Oct), *univ Gazette* (free) (April, July, Aug, Dec), *Regns for Entrance Scholarships* (free) (Aug), *Annual Report* (free) (Jan), *guild of students' Handbook* (Oct).

BOOKSHOP By arrangement with the univ, the S P C K operates a bookshop on univ premises.

THE YEAR 1960

RETIREMENTS V H L. Seale (phys).

RESIGNATIONS Dr L. Marder (appl maths), apptd lectr in appl maths, S'ton.

DEATHS Emer Prof. H. T. S. Britton (prof of chem, 1935-57).

HONORARY DEGREES *D.Litt.*—C. F. Dolmetsch, dir, Haslemere Festival, Lord Robbins, chairman, Trustees of Nat. Gallery, Dr A. L. Rowse, Fellow of All Souls Coll, Oxford; Dr E. M. Starkie, Fellow of Somerville Coll, Oxford *LLD.*—Dr C. J. Fuller, suig. physician, Royal Devon & Exeter Hosp., B. G. Lampard-Vachell, pro-chancellor of the univ, Sir David Hughes Parry, pres, U.C. Aberystwyth *D.Sc.*—Dr. F. S. Russell, dir, Plymouth lab. of Marine Biol. Assn; Sir Alexander Todd, prof. of org. chem, Camb.

Distribution by Faculties *Arts*, 685, *law*, 68, *sci*, 463, *soc. studies*, 282. Total. 1498.

Included in the figures above are —

Postgraduate students, 211.

New admissions, 595.

Students from other countries, 150. (Countries from which largest numbers came: Germany, 30, U.S.A., 17, Nigeria, 15).

DEGREES AWARDED (1959-60) *Arts* BA (hons), 112, BA (gen), 18, MA, 6 *Law* LLB (hons), 5, LLB (ord), 1 *Sci* BSc (hons), 68; BSc (gen), 26, MSc, 1, PhD, 11, DSc, 1 *Soc. studies* BA (hons), 55; BA (gen), 9, MA, 3. Total number of first degrees awarded, 294.

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	818	45
Women	621	14
Total	1439*	59

DIPLOMAS AWARDED (1959-60) DPA, 5, DSA, 6.

CERTIFICATES AWARDED (1959-60) Cert. in educn, 91, testamur in Engl lang & lit for overseas students, 17; testamur of proficiency in French lang, 1.

* Including 29 full-time students from other countries registered for 1 or 2 terms only.

UNIVERSITY OF HULL*

Founded 1954, previously established as University College of Hull, 1927

Postal Address: Hull, England

Telephone: Hull 18960 (6 lines)

VISITOR—H.M. THE QUEEN

CHANCELLOR—The Rt. Hon. LORD MIDDLETON, KG, MC, TD, JP, Hon LL.D *Leeds & Hull*

PRO-CHANCELLORS—The Rt Hon LORD HOTHAM, CBE, The Rt Hon THE EARL OF ANCASTER, TD, JP, MA *Camb*, H I LOTEN, MBE, JP, Hon LL.D

VICE-CHANCELLOR—BRYNMOR JONES, BSc PhD *Wales & Camb*, ScD *Camb*, FRIC

TREASURER—L H DOWNS, CBE, MA *Camb*, MIMechE

PRO-VICE-CHANCELLOR—Professor A. G. DICKENS, MA *Oxon*, FRHistS

REGISTRAR—W. D. CRAIG, BL *Glas*

LIBRARIAN—P A LARKIN, MA *Oxon*

TEACHING STAFF

[† = Part-Time]

Botany

Robertson, N. F, BSc PhD *Edin*, MA *Camb* Prof
Cromwell, B. T., BSc PhD *Liv* Reader
Boatman, D. J, BSc PhD *Lond*, MA *Dub* Lectr
Friend, J., BSc *Liv*, PhD *Liv & Camb* Lectr
Holliday, P, MA *Camb* Lectr
Peel, A. J, BSc PhD *Nott* Lectr
Morgan, D. H, BSc *Sheff* Asst Lectr
Roberts, Margaret F, MSc *Brist* Res. Asst.

Chemistry

Chapman, N. B., MA PhD *Camb*, FRIC G F Grant Prof.
Baldwin, R. R., MA *Camb*, PhD *Lond* Sr Lectr
Kipling, J. J., MA BSc DPhil *Oxon* Sr Lectr
Gray, G. W., BSc *Glas*, PhD *Lond* Sr Lectr
Bond, G. C., BSc PhD *Birm*, FRIC Sr Lectr
Barker, C. C., BSc PhD *Brist* Lectr
Norris, A. D., MA DPhil *Oxon*, FRIC Lectr
Clarke, K., MSc PhD *Liv* Lectr
Shorter, J., MA BSc DPhil *Oxon* Lectr
Hathaway, B. J., BSc *Lond*, PhD *Nott* Lectr
Suddard, M. B. H., BSc *Wales*, PhD *Lond* Lectr.
Francis, P. G., BSc PhD *R'dg* Lectr.
Webster, D. E., BSc PhD *Lond* Lectr
Biggs, J., MA PhD *Camb* Asst Lectr
Walker, R. W., BSc Asst Lectr
Wells, P. B., BSc Asst Lectr
Bruck, P., BSc PhD *Sheff* I C I Res Fellow
Byron, D. J., BSc PhD Res Fellow
Toyne, K. J., BSc *Mane* Demr

Classics

Gillies, M. M., MA *Camb*, PhD *Edin* Prof
Norman, A. F., MA *Oxon*, PhD *Lond* Sr Lectr.
Chilton, C. W., MA *Camb* Lectr.
Ryder, T. T. B., MA PhD *Camb* Lectr.
Saunders, T. J., BA *Lond* Asst Lectr.

Economics and Commerce

Wilson, J. S. G., DipCom MA *W.Aust* Prof.
Saville, J., BSc(Econ) *Lond* Sr Lectr.
Rotheray, D., MA *Camb* Lectr.
Nicholson, R. J., MA *Camb* (Stats.) Lectr.
Huner, O. S., MA *Camb* Lectr.
Kemp, T., BSc(Econ) *Lond* Lectr.
Maxcy, G. E., BA *Corn*, MA *Leeds* Lectr.
Galambos, P., DrRerPol *Vienna*, MA *Lond* (Stats.) Lectr.
Evans, E. W., MA PhD *Wales* Lectr.
Williams, D., BSc(Econ) *Lond* Lectr.
Helps, P., BSc(Econ) *Lond* (Accounting) Lectr.
Bellamy, Joyce M., BCom *Lond* Res Asst.
Butt, Mrs June, BA *Oxon* Res Asst

Education

Land, F. W., MSc PhD *Lond* Prof
Graham, Janet B. (Phys E) Lectr.
Lawson, J., MA *Mane* Lectr.
Bradley, J., MA *Camb*, MSc *Lond* Lectr.
Bunker, G. A. S., BSc(Econ) *Lond* Lectr.
Garforth, F. W., BA *Lond*, MA *Camb* Lectr.
Stein, H. H., MA PhD *Lond* (on leave) Lectr.
Miles, H. B., MSc *Wales*, PhD Lectr

* Member of the Association of Universities of the British Commonwealth

Atkins, S. H., MA PhD *Lond*
 Dwyer, F. J., BLitt MA *Oxon*.
 Owen, J. W., BSc *Wales*
 Shield, D. L., BA
 Sibley, Gwendoline
 Burnett, Margaret

Lectr
 Lectr
 (Phys. E.) Lectr.
 (Phys. E.) Asst
 †Lectr
 †Lectr

English Language and Literature

Brett, R. L., BA *Brist*, BLitt *Oxon*.
 G F Grant Prof
 'Espinasse, Mrs Margaret, BA BLitt *Oxon*

Sr Lectr.

Binns, A. L., BA *Manc*
 Cox, C. B., MA MLitt *Camb*
 Jones, A. R., BA *Nott*
 Smith, J. N., BA BLitt *Oxon*
 Fowler, R. G., BA *Lond*.
 Palmer, D. J., BA *Oxon*

Asst Lectr
 Asst. Lectr

Geography

Wilkinson, H. R., MA *Law*.
 Brachi, D. F., MBE, MA *Camb*
 Latham, Lois R., BA *Sheff*
 de Boer, G., MA *Camb*.
 Appleton, J. H., MA *Oxon*, MSc *Durh*
 Harris, A., MA *Lond*.
 Symes, D. G., BA *Oxon*
 Ward, R. C., BA *R'dg*.
 Lathbury, Alison, BA *Camb*, MS *Wis.*

Prof.
 Lectr.
 Lectr
 Lectr
 Lectr.
 Lectr.
 Lectr
 Asst Lectr.
 Res Asst.

Geology

Penny, L. F., MA *Camb*.
 Neale, J. W., BSc *Manc*, PhD
 Piasecki, M. A. J., MSc *Lond*
 Angus, N. S., BSc PhD *Belf*, MSc *N U I*

Lectr.-in-Charge
 Lectr
 Lectr
 Lectr.

German

Bater, C., BA *Lev*, DrPhil *Tubingen*

Hd. of Dept
 Sr Lectr

..
 Borland, H. H., MA PhD *Camb*

(Swedish) Lectr

Brown, Margaret A. L., MA *Edin*
 Attwood, D. C., BA *Wales*
 vom Hofe, W.
 Bell, Mrs Birgit M., FilMag *Uppsala*
 (Swedish) Lektor

Lectr
 Asst Lectr.
 Lektor
 (Swedish) Lektor

Government

Birch, A. H., BSc(Econ) PhD *Lond*
 Clegg, H. L., BSc(Econ) *Lond*.
 Greenleaf, W. H., BSc(Econ) PhD *Lond*.
 Dowse, R. E., BSc(Econ) *Lond*.

Prof
 Lectr
 Lectr
 Lectr.

Health Visitor's Course

Hutchison, A., MD PhD DPH *DPA Glas.*,
 FRFP SGlas
 Reffold, B., MB BS *Durh.*, DPH

†Lectr
 †Lectr.

History

Dickens, A. G., MA *Oxon*, FRHistS
 G. F. Grant Prof.
 Brooks, F. W., MA *Lond.*, FRHistS, FSA
 Reader

Douie, Decima L., MA *Oxon*, PhD *Manc.*,
 FRHistS
 Davis, R., BSc(Econ) PhD *Lond*
 Spencer, F., MA PhD *Manc*
 Coveney, P. J., MA *Camb*
 Drus, Ethel, MA *Cape T.*, FRHistS
 Easton, M. F., MA *Oxon.*, PhD *Leeds*

Sr. Lectr.
 Sr Lectr
 Lectr
 Lectr
 Lectr

(H. of Art) Lectr

Heath, P., BA *Lond*
 Metcalfe, G. E., MA *Oxon*

Lectr
 Lectr

Italian, see Romance Langs and Lits

Law

Taylor, F. W., LL.M. *Wales*, MA *Camb*.
 Bevan, H. K., LL.B. *Wales*
 Davies, S. G., LL.B. *Brist*
 Dimopoulos, A., LL.B. *Athens*, MA *Camb*
 Barker, J. M. A., BSc *Sheff.*, LL.B.
 Hawkins, A. J., LL.B.
 Martin, P. J., BA LL.B. *Camb*
 Mallett, E. C., FCA
 Sibley, Gwendoline

Prof
 Sr Lectr.
 Lectr.
 Lectr
 Lectr
 †Lectr
 †Lectr
 †Lectr
 †Lectr

Mathematics

Slater, N. B., MA *Edin* & *Camb.*, PhD *Camb*
 (Appl. M.) Prof, Hd of Dept
 Cockcroft, W. H., MA DPhil *Oxon*
 (Pure M.) G F Grant Prof
 Parsons, H. W., MA *Camb*, PhD *Lond*

Sr Lectr

Hale, V. W. D., MA PhD *Camb*
 Wallington, J. E., MA PhD *Camb*
 Cook, I. T., MA *Camb*, BSc *Lond*.
 Shaw, R., BA PhD *Camb*.
 Roberts, G. T., BA PhD *Camb*.
 Sankaran, S., MA MSc *Madr*
 Kelly, J. C., MA *Camb.*, PhD *Durh*.
 Morris, I., BSc *Wales*
 Anderson, N., BSc *Durh*
 de Barra, G., MSc *N U I*

Lectr
 Lectr
 Lectr.
 Lectr
 Lectr
 Lectr
 Asst Lectr.
 Asst Lectr.
 Asst Lectr.

Music

Marchant, R. B., MA MusB *Camb*
 Joubert, J., BMus *Durh*, FRAM
 Wilks, D. J., BA BMus *Durh*, FRCO

Asst Lectr

Philosophy

White, A. R., BA *Dub*, PhD *Lond*
 Stern, A. L., LèsSc DPhil *Geneva*
 Kapoor, S. C., BSc *Panj (I)*, MA *Delhi*,
 DUPans
 Montague, R. D. L., BA *Brist*,
 BPhil *Oxon*

Ferens Prof
 Lectr
 Lectr
 Lectr

Physics

Garlick, G. F. J., PhD ScD *Brm*, FIP
 Prof., Dir. of Phys Labs
 Jones, J. I., BSc PhD *Wales*, FIP
 Cunliffe, A., BSc PhD *Lond*, FIP
 Hough, J. M., MA *Camb*
 Reed, C. E., BSc *Durh*.

Asst Dir.
 Sr Lectr
 Lectr.
 Lectr.

Goodyear, J., BSc PhD *Leeds* Lectr.
 Duffin, W. J., MA *Camb.*, PhD *Lond* Lectr.
 Bryant, F. J., BSc PhD *Birm.* Lectr.
 Ballentyne, D. W. G., BSc PhD *Lond.* Lectr.
 Robertson, I. S., BSc PhD *Aberd.* Lectr.
 Springfield, M., BSc *Durh.* Asst Lectr.
 Jones, M. N., BSc *Wales* Asst Lectr.
 Ray, B., MSc *Nott.* Asst Lectr.
 Dev, I., MSc *Alld* Res. Asst
 Cox, A. F. J., BSc Demr

Psychology

Westby, G., MA *Oxon.* Hd. of Dept
 Hebron, Mrs. Miriam E., MA PhD *Lond* Lectr
 Royce, A. B., MSc *Manc* Lectr
 M'Comisky, J. G., MA BEd *Belf.* Lectr.
 Howarth, C. I., MA DPhil *Oxon* (on leave) Lectr
 Matthews, W. A., BA *Lond* Asst Lectr
 Robinson, W. P., BA DPhil *Oxon* Asst Lectr
 Bickford, J. A. R., DPM *Brist* †Lectr.
 Gibbins, K., BA Temp Asst Lectr

Romance Languages and Literatures

Rees, G., MA *Wales*, *DUParis* (French) Prof., Hd of Dept
 Charlton, D. G., MA *Camb.*, PhD *Lond* (on leave) Sr Lectr
 Pickford, C. E., MA *Manc*, DèS *L Paris* Sr Lectr
 Ginetier, P., LèS *L Dipld'ÉtSup* Sr Lectr
DUParis
 Maguire, Patricia I., MA *Glas* Lectr
 Clive, H. P., BA PhD *Lond* Lectr
 Welch, D. W., BA *Wales* Lectr
 Lawrence, L. D., MA *Oxon* Lectr
 Moloney, B., MA *Camb* (Italian) Lectr
 Morris, C. B., MA *Manc* (Spanish) Lectr
 Coupland, R., MA *Edin.*, PhD *Leeds* Asst Lectr.
 Roche, Yvette M., BA *Wales* Temp Asst Lectr
 Lafourcade, Monique, LèS *L Dipld'ÉtSup Paris* Lectrice

Social Studies

Drinkwater, R. W., MA *Camb* Hd of Dept.
 Worsley, P. M., BA *Camb.*, MA (Econ) *Manc*, PhD *A N U* Sr Lectr
 Collins, Mrs. Frances D. O., DiplPsychiatric SocialWork *Edin* Lectr.
 Horobin, G. W., BSc (Econ) *Lond* Lectr
 Dellar, H. J., BA Lectr
 Chester, R., BSc *S'ton.* Lectr

Spanish, see Romance Langs. and Lits

Statistics, see Econ

Swedish, see German

Theology

Tinsley, Rev E. J., MA BD *Durh* Sr Lectr., Hd. of Dept
 Thompson, Rev P. J., MA *Oxon.* Lectr.

Atkinson, Rev. J., MA MLatt *Durh.*, DrTheol *Mun* Lectr.
 Tanner, Mrs. Mary, BA *Birm* Asst Lectr
 Richardson, Rev W., MA BD *Oxon.* †Lectr

Zoology

'Espinasse, P. G., MA *Oxon* Prof
 Trueman, E. R., BSc *Glas.* Sr Lectr
 Nowell, N. W., BSc *Liv.*, PhD *Lond.* Lectr.
 Sudd, J. H., MA *Camb.*, PhD *Lond.* Lectr.
 Williams, I. C., BSc PhD *Wales* Lectr.
 Manning, Margaret J., BSc PhD *Brist* Lectr
 Lance, Joan, BSc PhD *S'ton* Asst Lectr

INSTITUTE OF EDUCATION

Land, F. W., MSc PhD *Lond* Prof., Dir
 James, I. T., MA *Camb*, BSc *Lond* Sec.
 Bamford, T. W., BSc PhD MA *Lond* Sr Tutor
 Fraser, W. R., MA *Glas* Tutor
 Wilks, J., BA *Brist* Tutor
 Laughton, W. H., MSc *Sheff.* Tutor
 Freeman, C. B., MA *Oxon*, FLA Librarian

ADULT EDUCATION

Styler, W. E., MA *Birm.* Dir.

Art, History of

Hall, I., MA *Manc.* Staff Tutor

Drama

Crane, Muriel, MA *Edin.* †Tutor

Economics

Barmby, J. E., BCom *Birm* Staff Tutor

History

Gillett, E., BA *Lond* Staff Tutor
 Marsden, A., BA *Wales* Staff Tutor
 Connell-Smith, G. E., BA PhD *Lond.*, FRHistS Staff Tutor

History, Local

MacMahon, K. A., MA *Lond*, FRHistS Staff Tutor

Literature and Drama

Marckwald, W. M. Staff Tutor
 Styan, J. L., MA *Camb* Staff Tutor
 James, W. L. G., MA DPhil *Oxon.* Staff Tutor
 Bradbury, M. S., MA *Lond* Staff Tutor

Music

Whitworth, L. Joan Staff Tutor

Philosophy and Psychology

Rickman, H. P., MA *Lond*, DPhil *Oxon* Staff Tutor

Theology

Atkinson, Rev. J., MA MLatt *Durh.*, DrTheol *Mun.* Staff Tutor

ADMINISTRATIVE AND OTHER STAFF

Asst Registrars R B Shepherd, BSc *Lond* (Academic), D F Rex, BA *Brist*, LLB *Lond* Bldgs Officer D Campbell, MA *Camb* Asst Bldgs Officer G Walker, BSc *Lond* Admin Asst. J D Brown, MA *Edin* Accountant B. Armitage Asst Accountant J B Wood, FCA Dep Librarian A C Wood, MA *Glas*. Sub-Librarians J Farrell, MA *Camb*, P Sheldon, BA *Lond.*, FLA Asst Librarians Mary Fovargue, BA *Manc*, Maeve M Brennan, BA *Lond*; Ruth H Cannell, BA *Lsv* Med Officer. R Raines, MB ChB *Leeds* Sec, Appts Bd.

F Harris-Jones, BA *Camb* Warden of Lodgings Janet Carpenter, MA *Oxon* Admin Asst, Dept of Adult Educn M Stephanie C. James, MA *Camb* Catering Officer. W R. Newlove Sup't of Works F. G Blanchard.

WARDENS OF HALLS OF RESIDENCE A. J. Treherne, BA *Lsv* (Ferens Hall), P J. Coveney, MA *Camb* (Needler Hall), Eva I Pinthus, BA *Birm* (Clemmison Hall), Jane G Dow, MA *Edn.* (Thwaite Hall).

GENERAL INFORMATION

The Univ. Coll of Hull, incorporated in 1927 and opened in 1928, was founded through the generosity of the Rt Hon. Thomas Robinson Ferens, High Steward of Hull and a leading industrialist in the city, who in 1925 donated £250,000 to endow a univ. coll. This was followed by grants from the corp. of Kingston upon Hull who gave £150,000 towards the cost of bldgs and equipment and also an annual grant towards maintenance, and from another industrialist, Mr G F Grant, who donated £100,000. In 1945 it was recognized by the Univ. Grants Cttee. for state grants and in 1954 was merged in the Univ. of Hull on the grant of a royal charter.

CONSTITUTION. The supreme governing body of the univ. is the court, presided over by the chancellor and consisting of about 280 members rep. of educnl. bodies, local authorities, parliament, benefactors, churches, learned socs, professional bodies, comm and industry. The executive body is the council, which consists of academic and lay members under the chairmanship of one of the pro-chancellors. The academic authority is the senate, presided over by the vice-chancellor, and consisting of all profs and hds of depts. of the univ. and 4 elected members of the non-professional teaching staff. The fac bds are responsible under the senate for the teaching and exams within the facs.

INCOME (1960-61). Total income, £688,111 (Treasury grant, 74.4 per cent, local authorities' grants, 2.9 per cent, fees, 13.3 per cent, endowments, 6 per cent, other sources, 3.4 per cent.)

FACULTIES AND DEANS. *Arts*, Prof R. L. Brett (Engl.); *sci.*, Prof. N. B. Chapman (chem.), *soc. sci.* & *law*, Prof H. R. Wilkinson (geog.).

UNIVERSITY PRECINCT. The main site of the univ. is in Cottingham Rd., about 2½ miles from the centre of the city, and includes teaching accomm. for all depts except educn, maths, German and adult educn, which occupy houses adjacent to the main site. The original bldgs for arts and sci were erected about 1928. Permanent bldgs. erected since the war include a chem.

block, students' union and refectory, boiler house, changing rooms, library, health centre, extensions to halls of residence, and a new hall of residence completed in 1957. Extensions for chem, a new bldg for bot and zool and a new bldg for phys are now in hand. The univ has ample space on its present sites for all foreseeable development in teaching and res accomm. The univ halls of residence are all situated in the village of Cottingham, some 2-3 miles from the univ. The univ coll was developed on a fully residential basis, and although this is no longer possible with increasing nos in the univ, it is hoped to continue to develop as a residential univ in the future. The sites in Cottingham have ample space for bldg. addnl halls, and new halls and extensions to the present halls are planned in the next few yrs. Future plans on the main site include a new hall of residence for postgrads and sr students, an exam hall, an arts bldg., an assembly hall, a bldg for appl sci and a sports centre.

LIBRARY. Over 150,000 vols., includes material for advanced res. More than 1700 periodicals and annuals currently taken.

LABORATORIES, ETC. Bot, chem (org, phys & inorg), geog, geol., phys, psychol, zool, teacher trg. lab.; bot garden; bot. field station, Spurn Head, coastal res. unit (geog.), Spurn Head, marine biol lab (zool), Scarborough.

ADMISSION. See Appendix III.

FIRST DEGREES. BA—joint and special, BSc—pass, joint and special, LLB—hons, BSc(Econ)—hons. Degree courses ordinarily cover 3 yrs. In final exam for BA spec, candidates are examined in one main subj., and for the jt degree in 2 main subjs. Subjs offered—classics, Engl., French, geog, German, govt, Greek (with Latin), hist, Latin (with Greek), law, maths., music, philos, psychol, soc studies, sociol, Swedish, theol. In final exam for BSc spec, candidates are examined in one main subj. and for the jt degree in 2 main subjs. Subjs. offered—bot., chem, geog, geol., maths, philos, phys, psychol, zool. Under certain conditions candidates for the BA spec. (geog. & psychol. only) and the BSc spec. and jt

degrees may be allowed to transfer to a course for the BA or BSc pass degree. Hons. can be obtained in either 1st or spec courses for BA and BSc. Candidates at final exam. may be examined orally or by practical exam in addition to written papers. The dept. of law prepares candidates for the bar and solicitors' exams as well as for the univ's degrees. Candidates for BSc(Econ) take a qualifying exam after 1 yr., and must ordinarily pass in this before proceeding to the 2nd yr. Candidates for final exam for LLB and BSc(Econ) may be examined orally in addition to written papers.

HIGHER DEGREES BD, MA, MSc, LL.M, MSc(Econ), MEd, PhD, DLitt, DSc, DD. BD and masters' degrees—2 yrs., one of which must be full-time or 3 yrs. pt-time, PhD—2 or 3 yrs., depending on quals., candidates for BD must pass or be exempted from qualifying exam in 7 papers before submitting thesis. For MA (except maths.), MSc, LL.M, MSc(Econ), MEd a thesis must be submitted, written and oral exam may also be required. MA in maths may be by thesis or written exam. PhD is taken by thesis and oral exam. DLitt, DSc and DD awarded on published work. All higher degrees, except higher doctorates, open to grads. of other univs—higher doctorates (except as honorary degrees) open only to Hull grads.

Any degree of the univ. may be awarded as an **HONORARY DEGREE**.

The univ. does not award **EXTERNAL DEGREES**.

DIPLOMAS Pub. admin. (pt-time)—3 yrs., advanced dipl. in educn. (pt-time)—2 yrs., soc. studies—2 yrs. (may be 1 yr. for grads.).

CERTIFICATES. Further study in div. Swedish (pt-time)—not less than 2 yrs., grad. cert. in educn.—1 yr.

OTHER COURSES Courses (1 yr.) for health visitor's cert. of Royal Soc. for Promotion of Health.

RESEARCH. Facilities for res. in all depts. Res. work by staff members recorded in univ. *Annual Report*. Univ. also publishes *Abstracts of Theses*.

ALLIANCES The univ. has an arrangement with the Univ. of Kiel for the exchange of students for short periods. Since 1953 the univ. has had a scheme for the exchange of sr. teaching staff with the Univ. of Rochester, whereby a yr. can be spent in Rochester by Hull staff and a similar period in Hull by members of the Rochester staff.

STUDY LEAVE. Each applcn. is considered on its merits.

FEES *Annual composition fees* (covering, where relevant, registration, tuition, exam (1st entry), graduation, convocation and membership of students' union). Bachelor's degrees: BA (except geog. and psychol.), BSc pure sci. (maths. and philos.), BSc(Econ), LL.B, £56, BA (geog. and psychol.), BSc pure sci. (except maths. and philos.), £66. Higher degrees: MA,

LL.M, MSc(Econ), BD, MEd, PhD (arts), £36, MSc, PhD (sci.), £46, DLitt, DSc, LL.D, DD, £30. Dipls. advanced dipl. in educn., £20, pub. admin. (pt-time), £10 10s., soc. studies, £56. Certs. educn., £80, further study in div., £4, health visitor's, £35 10s. Other courses: articulated clerks, £25.

ACADEMIC YEAR Oct–June 3 terms of 10 weeks each.

INSTITUTE OF EDUCATION (see also 'Teaching Staff,' above) *Constituent colls.* univ. dept. of educn. (dir. F. W. Land, MSc PhD Lond.), Endsleigh Tg. Coll., Hull (principal: Maury Guy, MA Oxon.), Kingston upon Hull Tg. Coll. (principal: C. Bibby, MA Camb., MSc Liv., PhD Lond.). The inst., inaugurated in 1948, was founded to establish closer relationships with instrns. in Hull and the neighbouring area specifically concerned with the tgy. of teachers. Students of the inst. prepare for the grad. cert. in educn. or the cert. in educn. Other major activities of the inst. are the organization and provision of refresher and advanced courses for practising teachers, and the planning of educn. investigation and res. The inst. bldg. contains a common room, an exhibition room and a library of 20,000 books. Annual journal *Studies in Education*.

ADULT EDUCATION (see also 'Teaching Staff,' above) The dept. of adult educn. provides courses in a wide range of non-vocational subjects for adults in Hull and the E. Riding, pts. of the N. Riding and Lincolnshire (Lansey). It also arranges short residential courses throughout the yr. for members of H.M. forces. The panel of external lects. includes members of the univ. staff and other recognized teachers.

SCHOLARSHIPS AND EXHIBITIONS The scholps. exam. has been discontinued.

POSTGRADUATE AWARDS open to grads. of other univs. see p. 808.

APPOINTMENTS BOARD The bd. advises students on the choice of careers and assists them in obtaining appointments on the completion of their courses.

RESIDENCE (For wardens, see 'Admin and Other Staff,' above) All full-time students must ordinarily live in one of the halls of residence or in approved lodgings unless living at home or with relatives. Halls for women—Clemmison Hall, Cottingham, Yorks., 120 places (tel. Cottingham 47326), Thwaite Hall, Cottingham, Yorks., 163 places (tel. Cottingham 47410). For men—Ferens Hall (and huttet annex), Harland Way, Cottingham, Yorks., 218 places (tel. Cottingham 47396), Needler Hall, Cottingham, Yorks., 68 places (tel. Cottingham 47181). Fees (1961–62) women, £146, men, £151, reduction of £6 for shared rooms.

UNIVERSITY AIR SQUADRON The squadron, a regular unit of the R.A.F., commanded by Sqdn. Leader A. B. Musgrave, is affiliated to the univ.,

membership is open to students who expect to be resident at univ for a min. of 2 yrs, and affords an opportunity for pilot and officer training at the squadron's airfield at Brough

UNIVERSITY HEALTH SERVICE The univ has a student health service under a full-time med officer. The service covers compulsory med. examination for new students, emergency attention as necessary, annual X-ray exam., etc. A new health centre near the main site was opened in 1961. It includes a sick-bay with 18-20 beds available for students in hall or lodgings.

STUDENTS' UNION. The students' union is the official orgn to which all full-time students belong. Through cttees, it arranges soc and athletic events. The students' union bldg contains common rooms, offices, and a refectory adjoins. The union co-operates with the univ convocation in arranging an annual meeting.

PUBLICATIONS *Calendar* (Sept) 7s. 6d., *Gazette* (once a term); pamphlets (free) *General Information*; *Regns for BA*, *Regns for BSc*, *Regns for LLB and BSc(Econ)*, *Regns for Higher Degrees*, *Regns for Dips & Certs*, *Dept of Educn*, *Annual Report* (Jan) free; *Abstracts of Theses* 5s.; *Inaugural and other lectures* 2s. 6d.; *Yorkshire Bulletin of Social and Economic Research* (half-yrly) (jty with depts of econ of Leeds and Sheffield) *Studies in Educn Torch* (mag of students' union) (3 times p a)

UNIVERSITY BOOKSHOP A bookshop is maintained on the univ. site by a local firm.

PUBLICATIONS COMMITTEE This cttee of senate exists to arrange and assist public in co-operation with the Oxford Univ Press of works of an academic nature by members of staff.

THE YEAR 1960

PRINCIPAL BENEFACTIONS Residuary Estate of F Atkinson, approx £20,000 for bursaries, Unilever Ltd, £10,000 under covenant for expansion of sci fac

RETIREMENTS Prof G T Mayfield (adult educn.), W. R. Burrows (forces educn.)

RESIGNATIONS Dr. Lucy M Brown (hist), apptd. lectr, London Sch of Econ, Mrs Marion Bull (educn), to sch post, Barbara M. Everett (Engl), apptd to fellowship at Newnham Coll, Camb, Dr D Monk (maths), apptd lectr, Edin, Dr Margaret Roberts (bot), after marriage, Dr H Stenton (bot), apptd to chair of bot, Hong Kong, Dr H M Wadson (German), apptd to chair of German, Swansea

HONORARY DEGREES *DLitt*—Sir Oliver Franks, chairman, Lloyds Bank *DSc*—Dr. R Holroyd, dep chairman, ICI *LLD*—Mrs J. E Kelley, govr, Holloway Prison

Distribution by Faculties. *Arts*, 640, *sci*, 685; *soc sci* & *law*, 406 Total 1731

Included in the figures above are—

Postgraduate students, 259

New admissions, 621

Students from other countries, 127 (Countries from which largest numbers came: Nigeria, 39, Ghana, 13).

DEGREES AWARDED (1959-60) *Arts*: BA, 132, PhD, 1, MEd, 3 *Sci*: BSc, 132, PhD, 9 *Soc sci* & *law*: BA, 45, LLB, 30, BSc(Econ), 37 Total number of first degrees awarded, 376

DIPLOMAS AWARDED (1959-60) Adv dipl. in educn, 9, soc studies, 6

CERTIFICATES AWARDED (1959-60) Grad cert. in educn., 123, health visitor's, 7, div (further study in), 1

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men .	1188	48
Women .	472	23
Total .	1660	71

UNIVERSITY OF LEEDS*

Founded 1904; previously established 1884, by amalgamation of the Yorkshire College (1874)
with the Leeds School of Medicine (1831)

Postal Address Leeds 2, England

Telephone (Registrar) Leeds 31751

VISITOR—H.M. THE QUEEN

CHANCELLOR—H.R.H. THE PRINCESS ROYAL, CI, GCVO, GBE, Hon. LLD *Leeds, Sheff., Camb, St And, Manc., Hull, McG & Laval*, Hon. DCL *Oxon.*

PRO-CHANCELLOR—Brigadier J. N. TETLEY, DSO, TD, Hon. LLD

VICE-CHANCELLOR—Sir CHARLES R. MORRIS, MA *Oxon.*, Hon. LLD *Manc.*, Hon. DLitt *Syd.*

PRO-VICE-CHANCELLOR—Professor R. H. EVANS, CBE, DSc *Manc.*, DèSc *Ghent*, PhD

TREASURER—The Rt Hon. THE EARL OF FEVERSHAM, DSO

REGISTRAR—J. V. LOACH, BSc PhD *Birm.*, FRIC

BURSAR—E. WILLIAMSON, TD, BSc(Econ) *Lond.*

LIBRARIAN—B. S. PAGE MA *Birm.*

TEACHING STAFF

(†=Part-Time)

Agriculture, see below

Anatomy

Durward, A., MD <i>N.Z.</i>	Prof
Boyd, G. I., MD, FRCSed	Sr Lectr.
Walls, W. K. J., MB ChB	Sr Lectr.
Sharp, J. A., MB ChB	Lectr.
Burwell, R. G., BSc MD, FRCS	Lectr.
Rudall, K. M., MSc <i>N.Z.</i> , PhD DSc	Hon. Lectr.
Farrington, G. H., MB ChB	Demr.
Foggitt, P., MB ChB	Demr.
Bird, G. G., MB ChB	Demr.
Peel, K. R., MB ChB	Demr.
Agar, H., MB BS <i>Lond.</i> , BSc MB ChB, FRCS, FRCOG	Hon. Demr.

Hullin, R. P., MSc PhD <i>Wales</i> , FRIC	Lectr.
Bowen, T. J., MA BSc <i>Oxon.</i>	Lectr.
Wild, D. G., MA DPhil <i>Oxon.</i>	Lectr.
Kenny, A. J., MB BS <i>Lond.</i> , PhD <i>Camb.</i>	Lectr.
Scott, T. A., BSc PhD	Lectr.
Burch, Mrs. Jane E., BA PhD	†Lectr.

Biomolecular Structure

MacArthur, J., MA BSc PhD <i>Glas.</i>	Reader
Rudall, K. M., MSc <i>N.Z.</i> , DSc PhD	Reader
Fautard, F. G. E., MSc <i>Birm.</i> , PhD	Lectr.
Beighton, E., BSc PhD	Res. Asst.
Parker, K. D., BA <i>Camb.</i> , PhD	Res. Asst.
Millard, A., (Elect. Microscope)	Res. Asst.
Graham, G. N., BSc PhD	Res. Asst.

Applied Science, see Technology

Architecture

Jordan, R. F.	Hoffman Wood Prof
---------------	-------------------

Biochemistry

Happold, F. C., PhD DSc <i>Manc.</i>	Prof
Dagley, S., MA BSc <i>Oxon.</i> , DSc <i>Lond.</i> , FRIC	
(Physico-Chem. Aspects of B)	Reader
Kilby, B. A., MA PhD <i>Camb.</i>	Sr Lectr.
Chattaway, F. W., MSc PhD <i>Lond.</i>	Sr Lectr.

Botany

Manton, Irene, BA ScD PhD <i>Camb.</i> , Hon DSc <i>McG.</i> , FRs	Prof.
Preston, R. D., DSc PhD, FIP, FRs	(Plant Biophys.) Prof.
Sledge, W. A., BSc PhD	Sr. Lectr.
Robinson, Mrs. Edith, BSc <i>Durh.</i> , PhD	Lectr.
Wesley, A., BSc <i>Lond.</i> , FGS	Lectr.
Frei, Eva, DrScNat <i>Zur.</i>	Lectr.
Lewis, J. D., BSc <i>Lond.</i> , PhD	Lectr.
Bartley, D. D., BSc PhD <i>Wales</i>	Lectr.
Jennings, D. H., BA <i>Camb.</i> , MA DPhil <i>Oxon.</i>	Lectr.
Leedale, C. F., BSc PhD <i>Lond.</i>	Lectr.

* Member of the Association of Universities of the British Commonwealth

Chemistry, Inorganic and Structural, see also Technology—Colour Chem

- Irving, H. M. N. H., MA DPhil DSc Oxon, FRIC Prof
 Bradley, R. S., MA ScD Camb, FRIC Reader
 Crucikshank, D. W. J., MA Camb., BSc(Eng) Lond, PhD
 (Mathl. Chem.) Reader
 Truter, Mrs. Mary R., BSc PhD Lond Reader
 Garrick, F. J., MA Oxon. Sr Lectr
 Pringle, G. E., MA PhD Camb. Lectr
 Smith, J. A. S., MA DPhil Oxon. Lectr
 Robertson, J. H., BSc PhD Edin. (Mathl. Chem.) Lectr.
 Munro, D. E., MA DPhil Oxon Lectr
 Shaw, B. L., BSc Manc, DPhil Oxon Lectr
 Pettit, L. D., BA DPhil Oxon Asst Lectr

Chemistry, Organic

- Lythgoe, B., MA Camb, PhD Manc, FRS Prof
 Wightman, W. A., MA Oxon, FRIC
 * Sr Lectr, Supt of Chem Labs
 Rothstein, E., PhD DSc Lond. Sr Lectr
 Briscoe, P. A., BSc Brist, PhD, FRIC Sr. Lectr
 Austin, A. T., MSc Melb, PhD Lond Lectr
 Trippett, S., BA PhD Camb Lectr
 Saxton, J. E., MA BSc DPhil Oxon. Lectr.
 Rugby, W., BSc Lond, PhD Lond. & Leeds Lectr.
 Davies, D. I., BSc PhD Lond. Lectr
 Brook, P. R., BSc PhD Lond Lectr
 Morrison, G. A., BSc PhD Glas Asst. Lectr

Chemistry, Physical

- Dainton, F. S., MA Oxon, ScD Camb., FRIC, FRS
 Prof, Chairman of Chem Depts.
 Gray, P., MA PhD Camb. Reader
 Smith, G. F., PhD Wales & Camb. Sr Lectr.
 Belton, J. W., PhD DSc Lw. Sr Lectr
 Caldin, E. F., MA DPhil Oxon Sr. Lectr
 Bunn, D., BSc PhD Lectr
 Carson, A. S., MSc Belf, PhD Manc Lectr
 Collinson, E., MA PhD Camb Lectr
 Ivin, K. J., BSc Lond, MA PhD Camb. Lectr.
 (Radiochem.) Lectr.
 Ayscough, P. B., MA PhD Camb. Lectr
 Walker, D. C., BSc St. And, PhD Brotherton Res Lectr
 Glentworth, P., BSc PhD Lw (Radiochem.) Asst Lectr
 Henchman, M. J., MA Camb., PhD Yale Asst Lectr

Classics: Greek

- Davison, J. A., TD, MA Oxon. Prof
 Parry, Miss Olwen A., MA Camb, BA Lectr.
 Rowe, K. R., MA Camb Lectr.
 Smart, J. D., BA Oxon Asst Lectr

Classics: Latin

- Wood, E. J., MA Aberd. & Camb Prof.
 Binyon, D. E. F., MA Oxon. Sr Lectr

- Martin, R. H., MA Camb, BA (Classics) Sr Lectr
 Hartley, B. R., MA Camb, FSA (Romano-Brit Archaeol) Lectr
 Earl, D. C., MA PhD Camb (Classics) Lectr
 Gottschalk, H. B., MA PhD Camb (Classics) Lectr
 Flintoff, T. E. S., MA Oxon., DipEd Durh (Classics) Asst. Lectr

Commerce, see Econ

Dentistry, see below

Economics and Commerce

- Brown, A. J., MA DPhil Oxon. Prof., Hd of Dept.
 Beresford, M. W., MA Camb. (Econ Hist.) Prof
 Turner, H. A. F., BSc(Econ) Lond, PhD Manc (Indust. Reins) Montague Burton Prof.
 Sargan, J. D., MA Camb. Reader
 Hare, A. E. C., MA Camb, PhD Lond. Sr Lectr.
 Hillmann, H. C., MA St And. Sr Lectr
 Sheard, P. M., BA Oxon (Accty) Sr. Lectr
 Newlyn, W. T., BSc(Econ) Lond Sr. Lectr
 Bellamy, R., MA Oxon Lectr.
 Speight, H., BA Lond Lectr.
 Rannie, G. F., MA Aberd. Lectr.
 Whitaker, F. P. G., MA Oxon, SM M.I.T. (Indust. Management) Lectr
 Sigsworth, E. M., BA PhD (Econ Hist) Lectr.
 Williams, J. E., MA PhD Sheff (Econ. Hist.) Lectr.
 Snowball, S., FSAA (Accty) † Lectr.
 Brothwell, J. F., BA Nott Lectr.
 Lowe, E. A., BSc(Econ) Lond. (Management Acctg) Lectr.
 Allen, V. L., BSc(Econ) PhD Lond Lectr.
 Wilkinson, R. K., BA Lectr
 Witts, A. G., BCom (Accty) Asst Lectr

Education

- Walsh, W., MA Camb & Lond Prof, Hd of Dept
 Fletcher, B. A., BSc MA Lond Reader
 Tate, W. E., BLitt Oxon, FSA Prof, Dir of Inst. of Educn
 Boulwood, Myrtle E. A., MA Lond Sr Lectr
 Ottaway, A. K. C., MA BSc Lond Sr Lectr
 Laing, A., MA EdB Aberd Sr Lectr
 Bosworth, Eugene M., MA Oxon Lectr
 Martin, Audrey J Lectr
 Wallbank, S. Annie, BSc Lond Lectr
 Crucikshank, Mrs Marjorie A., BA Manc, MA Lond, PhD Lectr.
 Thompson, W. B., BA Manc Lectr
 Hewitt, M. Sheila, BSc Lond Lectr
 Stevens, R. T. H., MA MLitt Camb Lectr
 Wise, A., Dipl in Dramatic Art Lond (Speech Educn) Lectr.
 Gosden, P. H., MA Camb., PhD Lond. Lectr.
 Layton, D., MA Camb., MSc Lond Lectr.
 Harding, D. H., MA

Engineering, see Technology**English Language and Mediæval English Literature**

- Orton, H, BLitt MA Oxon Prof.
 Doyle-Davidson, W A G, BA Lond. Sr. Lectr
 Taylor, A R, MA Manc
 Sr Lectr, Supervisor of Icelandic Studies
 Thomson, R L, BLitt Glas, MA Lectr
 Ellis, S., MA Lectr.
 Davenport, W A, MA Lond Asst Lectr

English Literature

- Jeffares, A. N., MA PhD Dub, MA
 DPhil Oxon Prof, Hd. of Dept
 Wilson Knight, G., MA Oxon., FRSL Prof
 Grant, W D B, MA DPhil Oxon (American Lit) Prof
 Strevens, P D, BA Lond
 (Contemporary E) Prof
 Jefferson, D W, BLitt Oxon, BA Sr Lectr
 Kettle, A C., MA PhD Camb Sr Lectr
 Creedy, A J, BA Lond, MA Camb Lectr
 Over, G A., BA Lectr.
 Mann, J P., BA Sheff Lectr
 Hill, G W, MA Oxon Lectr
 Matthews, G M, MA BLitt Oxon. Lectr
 Barber, C L, MA Camb Lectr
 Millgate, M. H., BA Camb Lectr
 Sanderson, F S, MA Edin (Folk Life) Lectr
 Corder, S. P., MA Oxon Lectr

Fine Art

- Bell, Q. C S, MA Durh Sr Lectr, Hd of Dept
 Noach, A, DLitt & Phil Amst Lectr
 Cameron, E., BA Durh Asst Lectr

French Language and Literature

- Clapton, G. T., MA Sheff Prof, Hd of Dept.
 Ullmann, S., PhD Bud, DLitt Glas.
 (Romance Philol.) Prof
 Benn, T. V., BA PhD Sr Lectr
 Hainsworth, G., DUParis, MA Sr Lectr.
 Coe, R N C, MA Oxon, PhD Lectr.
 Ireland, G W., MA Edin Lectr
 Ireson, J. C, MA Lond Lectr
 Rothwell, W, MA Oxon, DUParis Lectr.
 Crews, Mrs. Cynthia M, MA Camb.,
 PhD Lond Lectr.
 Thyas, Marie-Louise, LèsL Paris Lectr.
 Dryhurst, J, BA Lsv Asst Lectr.
 Hiddleston, J A, MA Edin. Asst.
 Wetherill, P M, MA Nott Asst Lectr.
 4 Lectures/Lectrices

Geography

- Dickinson, R. E, PhD Lond, MA Prof.
 Fowler, F. J, BA PhD
 Sr Lectr, Sub-Dean, Fac. of Arts
 Kirk, M., MA Lectr
 Jones, G. R. J., MA Wales Lectr
 Leeming, F A, BA Camb. Lectr.
 Eyre, S R, BSc Lond., PhD Sheff Lectr

- Palmer, J, BA Camb. Lectr
 Dickinson, G C, MA Camb Lectr.
 Thompson, I B, BA PhD Durh, MA Indiana Asst Lectr

Geology

- Kennedy, W Q, DSc Glas, FRs
 Prof, Hd of Dept & Dir., Inst of
 African Geol
 Rayner, Dorothy H., MA PhD Camb Lectr
 Hartley, J, BSc Lectr
 Turner, J S, MSc Lond, FGS
 (Paleontol) Lectr
 Harris, P G., MSc N Z, PhD
 (Geochem.) Lectr.
 Gregory, W C., BSc Lond Lectr
 Gaskin, A R. J., MA BSc Oxon, FGS Lectr.
 Gass, I G, MSc PhD Lectr.
 Oppenheimer Geological Fellows
 Von Knorring, O, MSc Helsinki, PhD
 Clifford, T N, BSc PhD Lectr
 Johnson, R L, BSc PhD Lectr
 Vail, J R, MSc Br Col, PhD
 Cox, K G., MA Oxon, PhD

German Language and Literature

- Gillies, A, MA Sheff, DrPhil Gott Prof.
 Wilkie, J R, MA Aberd, BA Camb. Sr. Lectr
 Boulby, M, MA Camb., PhD Lectr
 Brebner, Lilius W, MA Aberd Lectr.
 Hargreaves, R, BA Lectr.
 1 Lektorin

History

- Le Patourel, J, MA DPhil Oxon.
 (Mediev H) Prof, Jt Hd. of Dept
 Taylor, A J., MA Manc
 (Mod H) Prof, Jt Hd of Dept
 Jones, P J, MA DPhil Oxon
 (Mediev H) Reader
 Woolrych, A H., BLitt MA Oxon
 (Mod H.) Sr Lectr
 Cox, J W, BA (Mediev H) Lectr
 Taylor, J, MA Oxon (Mediev. H) Lectr.
 Forster, G C F, BA (Mod H) Lectr
 Read, D, BLitt MA Oxon. (Mod. H) Lectr.
 Cobb, R C, MA Oxon (Mod H.) Lectr.
 Boynton, L O G, MA Oxon (Mod H.) Lectr.
 Woods, J A, MA Camb, PhD Roch
 (American H) Lectr.

History of Science

- Gregory, J C., BSc Lond., FRIC Hon. Lectr.

Italian Language and Literature

- May, F, BA Lond Sr Lectr., Hd. of Dept
 Boyde, P, MA Camb. Asst Lectr
 Asst Lectr
 1 Lettore

Law

- James, P S, MA Oxon Prof, Hd of Dept.
 Fitzgerald, P. J., MA Oxon. Prof.

Hornsey, G, LLM
 Davies, M R R, PhD *Camb*, LLM
 Brown, D J L, BA LLB *Camb*
 Parker, D B, LLB *Lond & Camb*
 Schofield, P J, BA LLB *Camb*
 Crotty, P, LLB
 Lonsdale, A., MA *Oxon*
 Teeman, R, LLM
 Glover, G N, LLB
 Wagstaff, D St J R., MA LLB *Camb*

Lectr.
 Lectr
 Lectr
 Lectr
 Lectr
 †Lectr.
 †Lectr.
 †Lectr.
 †Lectr.
 †Lectr.

Mathematics

Ruse, H. S., MA *Oxon*, DSc *Edn*
 (Pure M.) Prof, Hd of Dept.
 Cowling, T. G., MA DPhil *Oxon.*, FRS
 (Appl. M) Prof.
 Craggs, J W, BSc *Manc*, PhD *Manc & Camb* Prof
 Ursell, H D, MA *Camb.*
 (Mathl Analysis) Reader
 Welch, B. L., BA *Oxon.*, PhD *Lond*
 (Stats.) Reader
 Price, H L, MA *Camb*, MSc PhD
 (Appl. M) Sr Lectr.
 Barrett, W, BA *Oxon*, DUPS
 (Pure M.) Sr Lectr.
 Perrott, I. B, MA *Oxon* (Pure M) Lectr.
 Lob, M H., MA PhD *Lond* (Pure M.) Lectr.
 Maude, R., MSc PhD *Lond.* (Pure M) Lectr.
 Kirby, D, BSc PhD *Lond.* (Pure M.) Lectr.
 Zobel, A, BA PhD *Lond* (Pure M.) Lectr.
 Wallace, E. W., BSc PhD *Lsw.* (Pure M.) Lectr.
 Bowers, J. F., MSc PhD (Pure M) Lectr.
 Tempest, R K, MSc PhD *Lsw*

(Appl. M) Lectr
 Cornish, F H J, BA DPhil *Oxon*
 (Appl. M) Lectr
 James, G S., BA *Camb* (Stats) Lectr.
 Trickett, W H, MSc (Stats) Lectr
 ... (Stats.) Lectr.

Hywel Evans, D, Albert Medal,
 MA *Oxon*, BSc *Wales* †Lectr
 Brindley, J, BSc PhD *Lond* (Appl. M) Lectr
 Cumberbatch, E., BSc PhD *Manc.*
 Meek, B L., MSc *Lond* (Appl. M) Lectr.
 Crapper, G D, BSc PhD *Manc.*

(Appl. M) Asst Lectr
 Ashton, K, BSc *Manc* (Pure M) Asst. Lectr
 Rose, H E, BSc *Lanc.* (Pure M) Asst Lectr
 Maddox, I J, BSc *N Staffs*
 Mitchell, R., BSc *Durh* (Pure M) Asst Lectr
 Cornwell, J F., BSc *Lond*

(Appl. M) Asst Lectr.
 Ferris, A J, BSc *Exe* (Appl. M.) Asst Lectr.
 Peers, H W, BSc (Stats) Asst Lectr

Electronic Computing Laboratory

Cook, G B, MA PhD *Camb* Dir
 Reeves, C. M., MA PhD *Camb* Lectr
 Wolfenden, K, BSc MA *Oxon* Lectr
 Wells, M, MA *Camb* Lectr
 Huorns, R W, MA *Edin* Asst Lectr
 4 Computing Assts

Medicine, see below

Metallurgy, see Technology (Appl Sci)

Mining, see Technology

Music

Denny, J. R., MBE, MA MusB *Camb.*
 West Riding Prof
 Allam, E., MA *Camb*, DMus *Lond*
 (Composition) Reader
 Mumby, F S, BMus *Durh. & Lond*, BA Lectr
 Brown, J C, MA MusB *Camb*, FRCO
 Lectr & Univ Organist
 McDougall, J., MA PhD *Camb*
 (Acoustics) (also Phys) Lectr

Pharmacology

Wood, D R., BM BCh BSc MA *Oxon.* Prof
 Mogeys, G A, MD *Belf* Sr Lectr
 Exley, K A., MD Lectr
 Cahal, D. A., TD, MD Lectr
 Clark, E. R., BPharm *Wales*, PhD *Lond.*
 (Pharmacol. Chem) Lectr.
 .. (Pharmacy) Lectr.
 Nelson, G A, MSc PhD, FLS
 (Pharmacognosy) Lectr

Philosophy

Cameron, J. M., MA *Oxon.* Prof, Hd of Dept
 Hunter, G B B, MA *Oxon.* Lectr
 Rees, W J, BA *Wales*, MA *Oxon* Lectr.
 Ravetz, J. R, BA *Swarthmore*, PhD *Camb*
 (Hist & P of Sci.) Lectr
 Milligan, M. O., BA *Oxon.*, MA *Edn* Lectr
 Cardwell, D. S. L., BSc PhD *Lond* Lectr.
 Long, P., BA *Lond.*, MA *Camb* Lectr
 Ishiguro, H., BA *Tokyo*, BPhil *Oxon.* Asst. Lectr.

Phonetics

MacCarthy, P A D, MA *Camb*
 (on leave) Sr Lectr, Hd of Dept.
 Woodhead, J L, MA *Camb* Lectr
 Shirt, Maillon A, MA *Edn* Lectr
 Spicer, A, BA *Lond* Lectr

Physical Education

Morgan, R. E., BA *Lond* Dir.
 Adamson, G T, BSc *Lond* Lectr
 Mitchell, K K Lectr
 McKelvie, Christine Asst
 Whiting, H. T A Asst.
 Schofield, Muriel Asst

Physics

Stoner, E C., BA ScD *Camb*, FIP,
 FRS Cavendish Prof, Hd of Dept
 Wilson, J. G., MA PhD *Camb.*, FIP Prof
 Hoare, F. E., MSc PhD *Lond*, FIP Reader
 McDougall, J, MA PhD *Camb.* Sr. Lectr.

Curry, C, BSc PhD <i>Dwh</i>	Sr Lectr.	Lowy, S., MA <i>Jerusalem</i>	Lectr.
MacKinnon, L., MA PhD <i>Camb</i>	St Lectr.	Macdonald, Rev. J., MA BD <i>Glas.</i> , STM U.T.S (N.Y.), PhD	Lectr
Kellermann, E. W., DrPhil <i>Vienna</i> , PhD <i>Edin</i> , FIP	Lectr	1 Lector	
Marsden, P. L., BSc <i>Birm.</i> , PhD	Lectr		
Rhodes, P., BSc PhD	Lectr		
Seymour, E. F. W., MA DPhil <i>Oxon</i>	Lectr		
Hodson, A. L., MSc PhD <i>Manc.</i>	Lectr		
Youell, R. F., BSc <i>Lond.</i> , PhD	Lectr		
Tennent, R. M., DIC, BSc PhD <i>Lond</i>	Lectr		
Manuel, A. J., BSc PhD <i>Lond</i>	Lectr		
Thompson, B. J., BSc PhD <i>Manc</i>	Lectr		
Moody, D. E., BSc PhD	Lectr		
Geig, D., BSc <i>St And</i> , PhD <i>Aberd</i>	Lectr		
Hillas, A. M., BSc PhD	Lectr		
Myers, A., BSc PhD	Lectr		
Niblett, D. H., MA DPhil <i>Oxon</i>	Lectr		
Read, D. A., BSc <i>Sheff</i>	Asst Lectr		
Hallam, G. C., BSc <i>Sheff</i>	Asst Lectr		
Griffiths, W. K., BSc <i>Nott</i>	Asst Lectr		

Physiology

Hemingway, A., MSc MB ChB	Prof		
Noltie, H. R., MA BSc <i>Aberd.</i>	Sr. Lectr		
O'Connor, W. J., MA <i>Camb</i> , MD <i>Adel</i>	Sr Lectr		
Allen, W. J., MD <i>Belf</i>	Lectr.		
Newman, P. P., MD <i>Liv</i>	Lectr		
Wolstencroft, J. H., MA PhD <i>Camb</i>	Lectr		
Colendge, J. C. G., BSc MB ChB	Lectr.		
Linden, R. J., MB ChB PhD	Lectr		
Kidd, C., BSc PhD <i>Durh.</i>	Lectr		
Ledsome, J. R., MB ChB <i>Edn.</i>	Demr		
...	Demr		

Portuguese, see Spanish

Psychology

Meredith, G. P., PhD <i>Lond.</i> , MSc MEd, FBPaS	Prof.		
Morrisby, J. R., BA <i>W Aust.</i>	Lectr.		
Harper, R., MSc <i>Manc</i> , PhD <i>R'dg</i> , FBPaS	Lectr		
Daws, P. P., BA PhD <i>Nott.</i>	Lectr		
Holding, D. H., MA <i>Edm</i> , PhD <i>Dwh</i>	Lectr		

Russian Language and Literature

Borras, F. M., MA <i>Oxon</i>	Sr. Lectr., Hd of Dept		
Dressler, A., BA	Lectr		
Waring, A. G., BA <i>Manc</i>	Lectr		
Coe, Mrs. Valentina S., BA <i>Safia</i>	Lectr		
Honkun, Elizabeth, BA <i>Camb</i>	Asst Lectr		
1 Lector			

Semitic Languages and Literatures

Isserlin, B. S. J., MA <i>Edm.</i> & <i>Oxon.</i> , BLitt DPhil <i>Oxon</i>	Sr. Lectr., Hd of Dept.		
Widengren, G.			
(Mediæv & Mod Hebrew) Montague Burton Visiting Lectr			

Social Studies

Giebenik, E., MSc(Econ) <i>Lond</i>	Prof, Hd. of Dept.		
Hanson, A. H., MA <i>Oxon</i>	(Pub Adm'n) Reader		
Wiseman, H. V., MA <i>Oxon</i> , BSc(Econ) <i>Lond</i> , PhD	Sr. Lectr.		
Vaughan, E. A., BCom <i>Durh</i>	(Soc Studies) Lectr.		
Henriques, L. F., MA DPhil <i>Oxon</i> .	(Soc Anthropol) Lectr.		
Head, W. G., BSc(Econ) <i>Lond</i> .	Lectr.		
Slaughter, C., BA <i>Camb.</i>	Lectr.		
Cork, Mrs. Ida E., MA <i>Sheff</i>	†Lectr		
Rex, J. A., BA <i>Rand</i> , PhD	Lectr		
Collins, M. S. Doreen E., BSc(Econ) <i>Lond</i>	Lectr.		
Wilson, B. R., BSc(Econ) PhD <i>Lond</i>	Lectr		
Dodd, C. H., BA <i>Wales</i> , MA <i>Edm</i> (on leave) (Pol)	Lectr.		
Jepson, N. A., BA <i>Manc.</i> , PhD	(Criminol) Lectr.		
Kirk, M., MA	Lectr.		
Martins, H. G., BSc(Econ) <i>Lond</i>	(Sociol.) Asst. Lectr.		

Spanish and Portuguese Languages and Literatures

Brown, R. F., MA PhD <i>Liv.</i>	Cowdray Prof		
McCrick, Verena N. R., MA <i>Birm.</i>	Lectr.		
Davies, G. A., MA DPhil <i>Oxon</i>	Lectr		
Smith, C. C., MA PhD <i>Camb.</i>	Lectr		
Garrad, K., MA PhD <i>Camb</i>	Lectr		
Bermejo Marcos, M., Fil&Let <i>Salamanca</i>	Lectr.		
Keates, L. W., MA <i>Birm</i>	Asst. Lectr		
1 Lectora, 1 Lectora			

Technology, see below**Textile Industries, see Technology, below****Theology**

Barclay, Rev. R. A., MA BD <i>Edin</i>	Prof.		
(O.T. Studies, Bibl. Hebrew & Hist. of Rel)	Sr Lectr.		
Higgins, Rev. A. J. B., MA <i>Wales</i> , BD PhD <i>Manc.</i>	(N.T.) Sr. Lectr		
Walker, Rev. G. S. M., MA <i>Oxon</i> , BD PhD <i>St.And</i>	(Church Hist & Doctrine) Lectr		
Lowe, A. D., BA <i>Dub</i>	Asst Lectr.		
7 Assoc Lectrs in local Theol. Colls			

Zoology, see also Agriculture, below

Dodd, J. M., BSc <i>Liv.</i> , PhD <i>St.And.</i>	Prof		
Kerr, T., MA DSc <i>Glas.</i>	Reader		

Henson, H., DSc PhD *Birm* Sr. Lectr.
 Broadhead, E., MA BSc DPhil *Oxon.* Sr Lectr
 Brust, Jean, BSc *R'dg*, PhD Lectr
 Werth, Irene, MA *Oxon* Lectr.
 Owen, R. W., MSc PhD *Wales* Lectr
 Lewis, J. R., BSc PhD *Wales* Lectr
 Jennings, J. B., BSc PhD Lectr
 Chadwick, A., BSc *Brist*, PhD *Brist. & Leeds* Lectr

AGRICULTURE

Bywater, T. L., BSc *Wales*, MS *Wis* Prof, Hd of Dept
 Blaxter, K. L., DSc PhD *R'dg*, Clive Behrens Lectr.
 Holliday, R., BSc Sr. Lectr.
 Boaz, T. G., MBE, MA DipAgric *Camb.* Sr Lectr.
 Dalley, J., BSc Lectr, Farm Dir
 Proud, J. R., BSc Lectr, Dep Farm Dir
 Hodgson, D. R., DipAgric *Camb*, BSc (Crop Husb) Lectr
 Dalton, D. C., BSc *R'dg*, PhD *Wales* Asst Lectr

Agricultural Bacteriology

Wolf, J., MSc *R'dg*. Sr Lectr
 Barker, A. N., MSc PhD Lectr

Agricultural Botany

Western, J. H., BSc PhD *Wales* Prof
 Jones, A. P., MSc *Wales* Lectr
 Harberd, D. J., MSc *Wales* Lectr.
 Wren, Margery J., BSc PhD *Manc.* Asst Lectr.

Agricultural Chemistry

Willcox, J. S., BSc *Lond*, FRIC Sr. Lectr
 Townsend, W. N., BSc Lectr
 Swann, D. A., BSc *R'dg*. Asst. Lectr
 Lax, G. R. Analyst

Agricultural Economics

Long, W. H., MA *Oxon.* Sr Lectr, Principal Agric. Economist
 Jeffrey, A. G., BCom Sr. Lectr
 Marsh, A. A., BSc(Agric) *R'dg*, DipAgricEcon *Oxon.* Lectr.
 Butler, J. B., MSc *Lond.*, MCom *Birm.* Lectr
 Clarke, G. B., BSc(Econ) *Lond*, DipAgricSc *Camb* Lectr
 Black, C. J., BSc *Lond.*, BLitt DipAgricEcon *Oxon* Lectr
 Wynne, A. J., BSc *Lond* Lectr
 Simpson, I. G., MSc *R'dg* Lectr.
 Simpson, Mrs. Morag C., BSc(Econ) MSc(Agric) *Lond* Lectr
 6 Investigational Assts

Agricultural Zoology

Gibson, N. H. E., BSc *Lond.*, PhD Lectr
 Whittington, B., BSc PhD *Sheff* Lectr

Veterinary Science

Towers, K. G., BVSc *Liv* Lectr, Vet. Officer

DENTISTRY

Anæsthetics, General

Harbord, R. P., MD *Liv*, FFARCS Lectr

Children's and Preventive Dentistry

Jackson, D., DDS LDS *Manc.* Sr Lectr

Dental Anatomy and Physiology

Sykes, J. G., BChD, FDSRCS Lectr.

Dental Histology

Saunders, M., BChD, FDSRCSed Lectr
 1 Hon. Clin Demr

Dental Materials, Chemistry and Physics of

Roberts, Prof. A. L., BSc PhD, FRIC Lectr
 Walton, A. W., BSc Lectr
 Worrall, W. E., MSc PhD Lectr

Dental Mechanics

Newbould, K. M., BChD LDS Lectr.

Dental Radiology

Winn, J. M., BA *Camb.* Lectr
 Copland, J., MChD LDS †Lectr

Dental Surgery

Hopper, F. E., MDS *Durh*, FDSRCS (D. Surg) Prof, Hd of Dent. Sch
 ... Prof
 Hollings, M. R., BChD, FDSRCS Sr Lectr
 Wigglesworth, J., BChD, FDSRCS Sr. Lectr
 Heylings, R. T., MB ChB BChD LDS Lectr.
 Davidson, P. R., LDS Lectr
 Saunders, M., BChD LDS Lectr
 MacGregor, A. J., BDS *Durh.*, FDSRCS Lectr
 Davies, D., MB ChB BDS *Manc* †Lectr
 Johnson, H. G. L., LDS Clin Lectr
 Brook, F., FDSRCSed Clin Lectr
 Co. k, D. J., LDS Clin Lectr.
 Jason Wood, T., BChD Clif Lectr
 Palmer, E. K., LDS (Gen D Pract.) Lectr
 Newbould, K. M., BChD LDS Hon. Clin. Lectr.

Oral Biology

Weidmann, S. M., DrIng *T.H. Darmstadt*, PhD (Oral Biol) Sr. Res. Fellow

Orthodontics

Haynes, S., BChD LDS Lectr

Prosthetic Dentistry

Woodhead, C., LDS Sr. Lectr.
 Thornham, C. B., BChD LDS Lectr
 Southam, F. L., LDS Sr. Hosp. Dent. Officer

MEDICINE

(for subjects of first 2 yrs —Anat., etc., see above)

Anæsthetics

Harbord, R P, MD *Lond.*, FFARCS Reader
 Harrison, Gwendolen, MB ChB, FFARCS
 Sr Clin. Lectr.

Clinical Lecturers

Lawrence, R. C., MB ChB, FFARCS
 Harris, R. L. H., MB BS *Lond.*, FFARCS
 Hawthorne, A. T., MB BCh BA O *Belf.*, FFARCS
 Mackintosh, F. G., MB ChB *Aberd.*, FFARCS
 Smith, Miss Doris N. Ambery, FFARCS
 Young, D. S., MB ChB, FFARCS
 Ablett, J. J. L., MB BS *Lond.*, FFARCS
 Lecturer
 Webb, S. J. S., MB ChB BSc *N Z.*, FFARCS

Bacteriology

Oakley, C. L., MD BS DSc *Lond.*, FRS
 Brotherton Prof
 Johnstone, K. I., BSc MB ChB PhD
 (Pub Health B) Reader
 Zinnemann, K. S., MD *Fran.*, MSc Sr Lectr
 Czekalski, J. W., MD DTM & H *Edin.*
 Sr Lectr
 Nicholson, D. E., BSc PhD *Lond.*, FRIC Lectr
 La Touche, C. J. P., MSc *Dub.*
 (Med Mycol.) Lectr
 Turner, G. C., MD Lectr
 Willis, A. T., MB BS *Melb.*, PhD Lectr.
 Jacobs, S. I., MB ChB Lectr.
 Eaves, G., BSc *Manc.*, PhD
 (Electron Microscopy) Hon Adviser
 Wotherspoon, A., MB ChB Demr

Cancer Research, see Pathol., Experimental

Forensic Medicine

Polson, C. J., MD *Burm.*, FRCP Prof
 Hansworth, D., MB ChB Lectr.
 Gee, D. J., MB BS *Lond.* Lectr.
 Dalley, R. A., FRIC (Toxicol) Hon. Demr

Medical Physics

Spiers, F. W., PhD DSc *Burm.* Prof
 Hay, G. A., MSc *Durh.* Sr Lectr
 Reed, G. W., MSc Lectr
 Hepburn, F., BA *Camb.*, MSc PhD *Nott.* Lectr
 Jacobs, Mrs. Norma, BSc Lectr

Medicine and Clinical Medicine

Tunbridge, R. E., OBE, JP, MD MSc, FRCP Prof
 Hartfall, S. J., TD, BSc MD, FRCP (Cln M) Prof
 Taverner, D., MBE, MD Reader
 Fountain, J. R., MB ChB *Edin.* †Lectr
 Bingle, J. P., MA BM BCh *Oxon*, MRCP Sr. Registrar, Tutor

Hellier, F. F., OBE, MA *Camb.*, MD *Lond.*,
 FRCP (Dermatol) Sr. Clin. Lectr.
 Towers, J. R. H., MA MD *Camb.*, FRCP
 Sr. Clin. Lectr

Garland, H. G., TD, MD, FRCP (Neurol) Sr. Clin. Lectr.
 Anning, S. T., TD, MA MD *Camb.*, FRCP (Dermatol) Sr. Clin. Lectr
 Telling, O. M., MA MD *Oxon*, FRCP Sr. Clin. Lectr.
 Tattersall, R. N., OBE, MD *Lond.* Sr. Clin. Lectr
 Benn, E. C., DPH *Lw.*, MB ChB (Infectious Dis) Sr. Clin. Lectr
 La Touche, C. J. P., MSc *Dub.* (Med Mycol) Lectr
 Hall, D. A., BSc PhD (Med Biochem) Lectr
 Edwards, G. F., MBE, MB BS *Lond.* (TB) †Lectr
 Clin Lectr

Whitaker, W., BSc MD
 Atkinson, M., MD *Lond.* Lectr
 Nixon, P. G. F., MB BS *Durh.*, MRCP Lectr
 Rose, G. A., DM MA *Oxon* Lectr.
 Wright, V., MD *Lw.* (Rheumatol) Lectr
 Biagg, C. R., MB ChB, MRCP Lectr
 Murray Scott, R. A., MA MD *Camb.* (Gen Pract of Med) †Lectr
 Parsonage, M. J., BSc MB ChB *Manc.*, DCH (Neurol) Clin Lectr
 Catterall, R. D., MRCPed (Venereal Dis) Clin Lectr

Obstetrics and Gynaecology

Scott, J. S., MD *Glas.*, FRCSEd (Obstet & Gynaecol) Prof
 Lister, Ursula M., MD *Lond.*, FRCSEd, FRCOG (Obstet. & Gynaecol.) Sr Lectr
 Currie, D. W., MD ChM, FRCS, FRCOG (Obstet) Sr. Clin. Lectr.
 Agar, H., MB BS *Lond.*, BSc MB ChB, FRCS, FRCOG (Obstet. & Gynaecol) Clin Lectr.
 Farquhar, J. B., MB ChB *Burm.*, FRCS, FRCOG (Obstet. & Gynaecol) Clin Lectr.
 Theobald, G. W., MA MD BChir *Camb.*, FRCSEd, FRCOG Hon. Lectr
 Redman, T. F., TD, MB ChB *Manc.*, FRCSEd, FRCOG †Lectr.
 MacDonald, R. R., MB ChB *Glas.* Sr Registrar, Tutor

Pædiatrics and Child Health

Craig, W. S., BSc *Glas.*, MD *Edin.*, FRCPed Prof
 Allibone, E. C., PhD *Burm.*, MD DPM, FRCP Sr. Clin. Lectr.
 Buchanan, M. F. G., MB ChB *Edin.* Lectr.
 Lewis, G. M., MB BS DCH *Lond.* Lectr
 MacKinnon, Mrs Joan M., MB ChB *Edin.* †Lectr
 Illingworth, Eugene C., BSc MD Hon. Demr.
 Littlewood, J. M., MB ChB Sr Registrar, Tutor

Pathology

Lumsden, C. E., MD *Aberd.*
 Sutherland, T. W., MD
 Harriman, D. G. F., MD *Belf.*
 (Neuropathol.) Sr. Lectr
 MacIver, J. E., BA MD *Camb*
 (Haematol.) Sr. Lectr
 Wright, C. J. E., MD MSc
 Goldie, W., MA MB ChB *Aberd*
 Thompson, H., MD *Glas*
 Anderson, C. K., MB ChB *St And*
 Shiel, F. A. O'M., MB BCh BAO
 BSc *NUI*
 Woods, C. G., MB ChB BSc
 Lussmore, N., MD (Gynaecol. P)
 Willis, R. A., MD DSc *Melb.*, FRCP
 Emer. Prof., Hon. Res. Fellow
 Shone, J. A. V. (Blood Trans.) Lectr.
 MacLay, W. D., MB ChB *Aberd* Asst Lectr

Pathology, Chemical

Lathe, G. H., MSc MD CM PhD *McG* Prof
 Anderson, W. N., BSc PhD *Belf.* Lectr
 Hargreaves, T., MB BS BSc *Lond* Lectr
 Holton, J. B., BSc *Lond* Temp Lectr
 Levell, M. J., MA *Camb.* Temp. Lectr
 Park, Dorothy C., MSc *Durh.* Demr
 Spencer-Peet, J., MB BS *Lond* Demr.
 Toothill, C., BSc *Lond.* Demr.

Pathology, Experimental and Cancer Research

Green, H. N., MA *Camb*, MD MSc *Sheff*
 (Exper. P.) Prof., Dir. of Cancer Res
 .. Asst. Dir. of Cancer Res
 Bonser, Mrs. Georgiana M., MD *Manc*,
 FRCP (Cancer Res) Reader
 Stickland, L. H., MA PhD *Camb*
 (Exper. Biochem) Sr. Lectr
 Laws, J. O., MA MB BChr *Camb*,
 PhD *Lond.* Lectr.
 Clayson, D. B., BA *Oxon*, PhD Lectr
 Jull, J. W., BSc PhD Lectr
 Eaves, G., BSc *Manc*, PhD
 (Electron Microscopy) Hon. Adviser
 7 Res. Assts

Preventive Medicine and Public Health, see also Pathol

Bradshaw, D. B., MA MB BCh BAO
 DPH *Dub* (Pub. Health) Prof.
 McPhail, A. N., MC, MD DPH *Glas* Sr Lectr.
 Sutherland, R., MD DPH *Aberd.* Sr Lectr.
 Still, R. J., MA MB BChr *Camb* Hon Lectr
 †Lecturers (Public Health)
 Jones, J. A. L. V., CBE, JP, MB ChB *Glas.*
 Taylor, A. L., MD DPH LDS
 Welch, G. E., MB BS *Durh.*, DPH
 †Demonstrators (Public Health)
 Lyons, J., MB ChB DPH
 Jamieson, J. G., MA BM BCh *Oxon*

†Instructors (Public Health)

Goodfellow, J
 Dalley, R. A., FRIC

Psychiatry

Hargreaves, G. R., OBE, MSc, FBPas
 Nuffield Prof., Hd. of Dept
 Wood, E. A. M., MB ChB *Edin*, MRCPed
 Sr Lectr
 Whyte, Marion B. H., MA *Edin*
 (Psychiatric Soc. Work) Lectr
 Young, A. J., MA *Camb*, BEd *Edin*
 (Clin. Psychol.) Lectr
 Webster, R. G., MA *Aberd*
 (Clin. Psychol.) Lectr
 Roberts, J. M., MD *Edin*, DPM †Lectr.
 Valentine, J., MB ChB *Glas*, DPM *Lond*
 †Lectr
 Wilson, A. H., MB ChB *Aberd*, DPM †Lectr.
 Markillie, R. E. D., MB BS DPM *Lond* †Lectr.
 Lattle, J. C., MB ChB *Brist*, DPM *Durh* †Lectr.
 Atkinson, M. W., MB ChB DPM
 Sr Registrar, Tutor
 Guntrip, Rev. H. J. S., BA BD PhD *Lond.*
 Psychotherapist
 Newbigin, Nancy, MA *Oxon*
 Psychiatric Social Worker
 Cook, J. B., MD *Lond* (Neurol.) †Demr

Radiology and Radiotherapy

Johnstone, A. S., MD *Edin.*, DMRE *Camb*,
 FRCSed, FFR (Radiodiag.) Prof
 Illingworth, G. H., MA *Oxon*, DMR *Edin.*,
 MD (Radiodiag.) †Lectr
 Nuttall, J. R., MD *Manc*, FFR
 (Radiother.) Sr. Clin Lectr
 Hugh, A., MB BCh *Wales*, MRCP,
 DMRD Res Fellow

Surgery

Goligher, J. C., ChM *Edin*, FRCS
 Prof., Hd. of Dept.
 Pyrah, L. N., MSc ChM, FRCS (Urol.) Prof
 Duthie, H. L., ChM *Glas*, FRCS
 Foster, J., MA *Camb*, MD *Camb* & *Melb*,
 FRCS (Ophthalmol.) Sr. Clin Lectr
 Black, G. W., MB BS *Lond*, FRCS
 (Ophthalmol.) Sr. Clin Lectr
 Mills, C. P., MB BS *Lond.*, FRCS
 (Otol.) Clin. Lectr
 Boyle, T. McM., MB ChB, FRCS
 (Otol.) Sr. Clin. Lectr.
 Pann, A. B., TD, ChM, FRCS
 (Orthop. S.) Sr. Clin. Lectr.
 Clark, J. M. P., MBE, MB ChB, FRCS
 (Orthop. S.) Sr. Clin Lectr
 Broomhead, R., MB ChB, FRCS
 (Orthop. S.) Hon Lectr
 Henderson, W. R., OBE, MB ChB *Edin*,
 FRCS (Neurol. S.) Sr. Clin. Lectr
 Latchmore, A. J. C., MBE, MS *Lond*,
 FRCS Sr. Clin. Lectr

Shucksmith, H. S., TD, BSc MB ChB,
FRCS Sr. Clin. Lectr.
Oldfield, M. W. C., MBE, MA DM
MCh Oxon, FRCS Sr. Clin. Lectr.
Lord, O. C., ChM DLO, FRCSed
(Otol) Sr. Clin. Lectr.
Smiddy, F. G., ChM, FRCS Clin. Lectr.
Bennett, R. C., MB ChB *Adel*, FRCS
Sr. Registrar, Tutor
Silk, F. F., MB ChB *Edin*, MChOrth *Lev*,
FRCSed Sr. Registrar, Tutor
Raper, F. P., MB ChB, FRCS
(Urol) Clin. Lectr.
Ellis, M., MA MB BChir *Camb*, FRCS
Clin. Lectr.
Shaw, W. M. H., BSc MB ChB, FRCS
(Plastic S) Hon. Lectr.
Wooler, G. H., TD, MA MD BChir *Camb*,
FRCS (Thoracic S) Clin. Lectr.
Aylwin, J. A., MB ChB, FRCS
(Thoracic S) Clin. Lectr.
Wall, A. E., MSc MB ChB *Mane.*, FRCS
(Neurol S) Clin. Lectr.
Atwell, J. D., MB ChB, FRCS Lectr.

TECHNOLOGY

(see also Agriculture)

Applied Science, Houldsworth School of

Roberts, A. L., BSc Ph.D, FRIC
Lavesey Prof., Chairman of Sch.
Haselden, G. G., BSc Ph.D *Lond*
(Chem. Engin.) Prof.
Nutting, J., MA *Camb*, BSc Ph.D (Metall.) Prof.
Garside, J. E., BSc Ph.D
(Fuel Technol.) Sr. Lectr.
Shuttleworth, R., Ph.D *Brist*, BSc
(Metall.) Lectr.
Feltham, P. A., DSc Ph.D *Lond*, MSc
(Metall.) Lectr.
Butcher, K. L., BSc *Lond*, FRIC
(Chem. Engin.) Brotherton Sr. Lectr.
Macrae, J. C., BSc *Glas.*, FRIC
(Gas Chem.) Sr. Lectr.
Carruthers, T. G., BSc
(Ceramics & Refractory Materials) Lectr.
Mitchell, S. C., BSc *Lond*
(Fuel Technol.) Lectr.
Pollard, A., BSc (Chem. Engin.) Lectr.
Cass, F. H., BSc (Chem. Engin.) Lectr.
Codd, I., BSc Ph.D (Metall.) Lectr.
Bealey, P. R., BMet Ph.D *Sheff*, (Metall.) Lectr.
Worrall, W. E., MSc *Lond*, Ph.D
(Ceramics & Refractory Materials) Lectr.
Roberts, J. P., MA *Camb*, BSc Ph.D *Lond*
(Ceramics) Lectr.
McDougall, I. R., BSc *Lond*
(Chem. Engin.) Lectr.
Collinge, C. N., MA *Camb*
(Chem. Engin.) Lectr.
Hulett, J. R., BA DPhil *Oxon*
(Chem. Engin.) Lectr.
Lilley, B. A., BSc Ph.D Lectr.
Douthwaite, R. M., BSc Lectr.
Dent, F. J., OBE, Ph.D DSc Hon. Lectr.

Berry, W. R., MSc *Mane*, Ph.D, FIM,
FRIC Hon. Lectr.
Sargant, Emer. Prof. R. J., OBE, DSc *Lond*
Hon. Lectr.
Blackburn, W. H., MSc Ph.D
Principal Res. Chemist
Dixon-Lewis, G., MA DPhil *Oxon*
Sr. Res. Chemist
Kilham, J. K., BSc Ph.D Sr. Res. Chemist

Colour Chemistry and Dyeing

Prof.
Burd, C. L., MSc, FRIC (Dyeing) Sr. Lectr.
Peters, A. T., DSc Ph.D *Mane*
(Col. Chem.) Sr. Lectr.
Sutcliffe, F. K., MSc *Mane*, Ph.D
(Col. Chem. & Dyeing) Res. Lectr.
Patterson, D., MSc Ph.D *Brist*
(Lakes & Pigments) Lectr.
Stevens, C. B., BSc Ph.D (Dyeing) Lectr.
Jones, F., BScTech *Mane.*, Ph.D Lectr.

Engineering, Civil

Evans, R. H., CBE, DSc *Mane*, DSc *Ghent*,
Ph.D Prof., Admin. Hd. of Engin. Depts.
Laghtfoot, E., MSc *Lond*, Ph.D Reader
Bennett, E. W., MSc *Brist*, Ph.D Sr. Lectr.
Hunter-Rose, W., MSc, FGS Hon. Lectr.
Mackay, R. D., BSc *Dub*
Sutcliffe, P., BScTech *Mane*
Chronowitz, A. W., DiplEng *PolishUniv*
Coll (Lond) Lectr.
Collins, W. G., BSc *Lond*, Lectr.
Fox, J. A., BSc *Brist* Lectr.
Yettram, A. L., BA BAI *Dub*, Lectr.
Houghton-Evans, W. Lectr.
Wootton, H. J., BSc *Lond*, Asst. Lectr.

Engineering, Electrical

Prof.
Carter, G. W., MA *Camb*
Richardson, A., BSc *Durh* Sr. Lectr.
Walker, P. H., BSc(Eng) *Lond*, Ph.D *Mane*
Guile, A. E., BSc(Eng) Ph.D *Lond* Sr. Lectr.
Brayshaw, G. S., BSc(Eng) Ph.D *Lond* Lectr.
Richardson, J. R., BSc Ph.D Lectr.
Salvage, B. F., BSc Ph.D *Lond* Lectr.
Lawrenson, P. J., MSc *Mane* Lectr.
Stephenson, J. M., BSc Lectr.

Engineering, Mechanical

Prof.
Johnson, D. C., MA *Camb*.
(Fluid Mechanics) Prof.
Leah, A. S., BSc Ph.D
(Appl. Thermodynam.) Reader
Shilton, R., BSc(Eng) *Lond*, Sr. Lectr.
Appleyard, D., MSc Lectr.
Stansfield, H., MSc *Mane*, Lectr.
Mobbs, F. R., DIC, MSc Lectr.
Palmer, W. B., MA *Camb*, Ph.D Lectr.
Dowson, D., BSc Ph.D Lectr.
Bradley, D., BSc Ph.D Lectr.

Higginson, G R, BSc PhD
 Tanner, L. H, BA *Camb*
 Longfield, M. D, BSc
 Miatt, B B, MSc *Manc*
 Parsons, B., BSc PhD

Fuel Industries, see Appl Sci

Metallurgy, see Appl. Sci.

Mining

King, H. J., BSc(Eng) PhD *Lond.* Prof.
 Jowett, A., BSc PhD
 (Min. Dressing & Coal Prep) Lectr
 Dell, C. C, BSc(Eng) *Lond* Lectr
 Potts, W L J., BSc *Durh* (Mining) Lectr
 Brook, N, BSc(Eng) *Lond*, PhD
 (Colliery Engin) Lectr.
 Myers, J. O., BSc PhD
 (Mine Surv & Appl. Geophys) Lectr
 McFarlane, J., BSc *Manc.*, BEng *Sheff*,
 FGS (Mining & Mine Surveying) Lectr.
 Peck, A., BSc
 (Metal Mining & Mine Surveying) Lectr
 Grounds, A., BSc(Tech) *Manc*
 (Min. Dressing & Coal Prep) Hon. Lectr.
 Needham, L W, MSc *Burm*
 (Min Dressing & Coal Prep) Hon. Lectr.
 Harris, C. C., BSc *Lond.*, PhD
 (Min Dressing & Coal Prep.) Lectr

Procter Department of Food and Leather Science

Ward, A G, OBE, MA *Camb.* Prof
 Reed, R., MSc *Manc*, PhD Lectr.
 Flint, F Olga, BSc PhD Lectr
 Nursten, H E, BSc PhD Lectr.
 Pearson, C H, BSc Lectr
 Scholtz, J. Lectr, Supervisor of Exper. Tannery
 Stainsby, G, MA PhD *Camb* Lectr

Textile Industries

Speakman, J. B., DSc *Manc.*, FRIC,
 Hon. FTI Prof., Hd of Dept
 Grosberg, P, MSc(Eng) PhD *Rand*
 (Text Engin) Res Prof
 Whewell, C. S., BSc PhD, FRIC, FTI
 (Text Technol) Prof
 Chamberlain, N. H, BSc PhD, FTI Reader
 Woods, H J, MA *Oxon*, FIP
 (Text Phys) Reader
 Townend, P P., BSc PhD, FTI
 (Yarn Manufacture) Sr Lectr.
 Snowden, D C, MSc, FTI
 (Weaving Mech) Sr. Lectr
 Kisby, C
 (Text Design) Sr Lectr
 Mathieson, A. R, MSc *Durh*, PhD *Nott*
 (Chem of High Polymers) Lectr
 Peters, L, BSc *Lond*, MSc PhD
 (Text. Industries) Lectr

Onions, W. J, BSc *Wales*, FTI
 (Text Testing) Lectr
 .. (Text Engin) Lectr
 Bell, J W, BSc PhD (Text Chem) Lectr.
 Truter, E V, DIC, PhD BSc *Lond*
 (Text Chem.) Lectr.
 Speakman, P T, BA DPhil *Oxon*
 (Text Chem) Lectr.
 Munden, D L., BSc (Text Engin) Lectr
 Young, D. (Cloth Anal. & Cloth Struct) Lectr
 Brook, G., BSc PhD (Text Industries) Lectr.
 Sikorski, J, DiplIng *Warsaw*, MSc PhD
 (Text Phys) Lectr
 Smith, P A, BSc PhD (Text Industries) Lectr
 Kidd, F, MA *Camb* Res Chem & Hon Lectr.

INSTITUTE OF EDUCATION

Fletcher, B A, BSc MA *Lond* Prof of Educn, Dir
 Kean, A M., MA *Glas.* Dep. Dir
 Smith, Miss M Metcalfe, MA
 (Primary E) Lectr
 Stevens, Frances M, BA *Lond* Lectr
 Jones, C M, MA MSc Lectr
 Lovell, K, BSc MA PhD *Lond.* Lectr.
 Owen, P E, MA *Lond* Lectr
 Mattock, J. G, BSc *Sheff* Lectr
 Richards, G O, MA MusB *Camb*, FRCO Sec.
 Bailey, Miss Eunice P M
 Warden of Children's Centre
 Goodier, J, BSc PhD *Lond* Visiting Lectr
 Richardson, J. Elizabeth, MA *Lond.*
 Visiting Lectr
 Varnn, R L Visiting Lectr.
 Tucker, P. E, BLitt MA *Oxon.* Librarian

ADULT EDUCATION AND EXTRA-MURAL STUDIES

Raybould, S G, BSc(Econ) PhD *Lond*
 Prof. of Adult Educn., Hd. of Dept
 Dep Hd of Dept
 Johnson, A, BSc *Lond* Asst Dir
 Lectr & Warden of Bradford Centre Shaw, R,
 BA *Manc.*
 Lectr. & Warden of Middlesbrough Centre
 Saunders, J W, BLitt MA *Oxon*
 Lectrs Baxandall, H, MA *Camb*, Bellamy,
 C. V, BSc., Duffy, A. E. P., BSc(Econ)
 PhD *Lond*; Johnson, C., BA, Thompson,
 E P, BA *Camb*
 Univ. Extension Lectrs: Butterworth, E. D.,
 MA *Camb*, Dalby, G. R., MA, de Russett,
 A W., MA *Camb*, Hauger, E G, MA;
 Hunt, K L, BSc *Brist*, PhD, Jennings,
 B., BA *Lond.*, MA, Jepson, N. A., BA
Manc, PhD; Kelly, A., MA *Glas* & *Leeds*,
 McLeish, J, BSc EdB *Glas*, McTague, G,
 Stein, W, BA *Manc*; Stephenson, T E,
 BA *Durh*

SERVICES EDUCATION WORK

Brookman, P E, BCom

Sec, Services' Educn Cttee.

Lecturers MacGregor, J, BA *Liv.*, MEd PhD,Bishop, T G, BA BSc(Econ) *Lond*, PhD;Caldwell, T B, MA *Oxon*

Tutor Librarian Prichard, W J, MCom

Secretary Virgo, S R, MBE

ADMINISTRATIVE AND OTHER STAFF

UNIV ADMINISTRATION. Sub-Dean, Fac of Med T A Divine, MB ChB Sr Asst Registrar L R Kay, BA *Sheff* Asst Registrar A Rowland-Jones, MA *Oxon* Asst Bursar R Forbes, DFC, BCom *Lond.* Resident Architect & Planning Officer G Wilson, MSc Dep Resident Architect R Pemberton, DSC Surveyor of the Fabric A L Knighton Chief Catering Officer T Greenhalgh Photographer. W Blackledge

TUTOR OF WOMEN STUDENTS Joyce Bloxham, MBE, BA.

LIBRARY Dep Librarian A G Mackenzie, MA *Glas*

WARDENS OF HALLS OF RESIDENCE. (Men)—D. Hywel Evans, Albert Medal, MA *Oxon.*, BSc *Wales* (Devonshire Hall); R. E Morgan, BA *Lond* (Lyddon Hall), G F Rennie, MA *Aberd.*, R D Mackey, BSc *Durh*, B A Kirby, MA PhD *Camb*, J L Woodhead, MA *Camb* (Bodington Hall); B R Wilson, BSc(Econ) PhD *Lond*

(Sadler Hall) (Women)—Lettice M. Pither (Oxley Hall), M Brenda Carey, JP, LLB (Weetwood Hall), Irene Werth, MA *Oxon* (Lupton Hall), Edith M McAlpine, MA *Edm* (Tetley Hall), Verena N R McCrick, MA *Birm* (Ellerslie Hall), Lorna Galbraith (Croft Hall, for Maternity Clerks)

WARDEN OF OVERSEAS STUDENTS. A Laing, MA EdB *Aberd.*

WARDEN OF LODGINGS Carol P Abell, BCom.

WARDEN OF WOMEN STUDENTS IN LODGINGS Mrs Marjorie Sledge, BA.

STUDENT HEALTH SERVICE Univ. Med. Officer. R J Still, MA MB BChir *Camb* Asst. Med Officers S E Finlay, MB *Syd*, MRCP, Mrs Joan M. Tattersall, MB ChB

APPOINTMENTS BOARD Sec. O H J Dick, BA *Lond* Asst Secs A W Town, MA *Camb*; L A Grint, MA *Camb* & *Oxon*

AFFILIATED COLLEGES

COLLEGE OF THE RESURRECTION, Mirfield, Yorks (tel. Mirfield 3362) (C of E) Affiliated 1904. Students are exempt from attendance at the univ upon 1st-yr. classes of BA course Warden—Rev Father H Bishop

DIOCESAN TRAINING COLLEGE, ST JOHN'S COLLEGE, York (tel. York 23596). (C of E.). A teachers' trg coll, affiliated 1921 Attendance upon certain courses of the coll exempts from inter (or introductory) courses in the univ in 1st-yr. BA and BSc Principal—Rev Canon P J Lamb, MA *Oxon*

LEEDS COLLEGE OF TECHNOLOGY, PRINTING DEPARTMENT, Calverley St, Leeds, 1 (tel. Leeds 36191) Affiliated 1922 with a view to recognition

of classes at the printing dept of the coll as part of the BCom course of the univ Principal of the coll—C Chew, MScTech *Mane*, FRIC

RAWDON COLLEGE, Rawdon, nr Leeds (tel. Rawdon 59) (Baptist) Affiliated 1916 Attendance upon certain courses of the coll exempts from 1st-yr classes of BA course Principal—Rev D S Russell, MA BD *Glas*, MA Blatt *Oxon*

TECHNICAL COLLEGE, Queen St. S, Huddersfield (tel. Huddersfield 5260) Affiliated 1906 Attendance upon certain courses of the coll exempts from 1st-yr. classes of courses for BA, BSc (incl engin.), and MB ChB Principal—W E. Scott, MBE, MSc PhD *Durh*, FRIC.

GENERAL INFORMATION

The Leeds Sch. of Medicine, founded in 1831, and the Yorkshire Coll. of Science, founded in 1874, were united in 1884. The coll formed part of the Victoria Univ. Manchester, from 1887 to 1904, when a univ was establd. in the city of Leeds by royal charter

The univ. has for many years maintained the balance of its facs, arts being at present the largest numerically Through close connexions

with and generously sustained help from industry, however, special strengths in pure and appl scis have been developed. In recent yrs, the use of special supplementary Treasury grants for the devel. of higher technol educn has made possible further major advances in these fields. Recent devels incl. a high energy radiation lab at Cookridge and a fully staffed and equipped electronic computing lab.

CONSTITUTION The court is the governing body of the univ. and is empowered to regulate and determine all univ. matters in the ways required by the charter and statutes. It includes in its membership the council, reps of the senate, teaching staff, convocation, professional bodies, local authorities, other univs, colls, and schs. The council also has a widely representative membership and is the executive body of the univ., exercising such powers as are granted to it by the court and by statute, incl. the institution, after a report by senate, of teaching offices, and management of the financial affairs of the univ. Subject to statutes and ordinances and to review by the court, the senate controls and generally regulates instruction and educn. The chancellor is the hd and chief officer of the univ. and is pres. of court and council. In her absence, the pro-chancellor presides at meetings of these two bodies; the vice-chancellor is *ex-officio* chairman of senate. The chancellor, pro-chancellor and vice-chancellor are elected by the court on the nomination of council.

INCOME (1959-60) Total income, £2,492,594 (parliamentary grants, 73 per cent, local authorities' grants, 3 per cent, fees, 11 per cent, interest on investments, 1 per cent, other sources, 12 per cent.)

FACULTIES AND DEANS *Arts*, Prof. G. T. Clapton (French), *econ & soc. studies*, Dr L. F. Henriques (soc. studies), *law*, Prof. P. S. James, *med*, A. B. Pain (surg.), *sci.*, Dr D. Bunn (phys. chem.), *technol.*, Dr J. E. Garside (fuel technol.)

LIBRARY Brotherton libr. (general libr. of the univ.) contains 507,339 books and pamphlets, incl. (a) Brotherton collection, 45,011 books and pamphlets, 252 incunabula, 1152 lit. and hist. MSS., 4106 deeds, 34,522 letters, especially strong in Engl. lit. of 17th to 19th cents., Yorks. hist. and topog., early hist. of Labour party, and Romany lit.; (b) Anglo-French collection, 3000 vols., trans. of Engl. books into French and French books about Gr. Britain, printed before 1805; (c) Icelandic & Scandinavian collection, 13,000 vols. & pamphlets, particularly rich in mod. Icelandic; (d) Mitresey collection of 612 vols. on occultism; (e) All Souls collection of 2294 vols. on early sci. and theol.; (f) libr. of Leeds Philos. & Lit. Soc., presented in 1936; (g) Chaston Chapman chem. libr., about 3000 vols. and many thousands of pamphlets; (h) Chaston Chapman collection of early alchemical and sci. books, 1120 vols.; (i) Blanche Leigh collection of cookery books, largely of 17th & 18th cents., 1300 vols.; (j) Holden theol. libr. belonging to diocese of Ripon, 10,789 books & pamphlets; (k) Harold Whitaker collection of atlases and maps, about 450 vols.; (l) libr. of the Yorkshire Geol. Soc., presented in 1956. Apart from the Brotherton libr., there are the med. libr. (36,878 books & pamphlets), dent. libr. (2850 books & pamphlets), agric. libr. (41,584 books & pamphlets), textile libr. (9040 books & pamphlets), Inst. of Educn. libr. (19,891 books & pamphlets), law libr. (9227

books & pamphlets); also dept. libraries with total stock of 31,896 books & pamphlets.

MUSEUMS Agric., bot., dyeing, educn., forensic med., geol., mat. med., pathol., soc. studies (anthropol.), textiles, zool.

LABORATORIES Agric. chem., anesth., anat., biochem., biomolecular structure, bot., cancer, chem., chem. engin., chem. pathol., coal gas & fuel technol., colour chem. & dyeing, dent., electronic computing, engin. (electr., civil, mech.), forensic med., geol., food & leather sci. (incl. Procter internat. res.), man-made fibres, maths., med., med. phys., metall., mining, obstet., pathol., & bacteriol., pharm. & pharmacol., phys., physiol., rheumatol., surg., textiles, zool.

HOSPITALS available for clinics: Infirmary (590 beds), Women's H. (103 beds), Maternity H. (112 beds), St. James H. (280 beds), Seacroft H. (30 beds).

RESEARCH INSTITUTE OF AFRICAN GEOLOGY, LEEDS Founded in 1955 with donation of £100,000 by Anglo-American Corporation of South Africa. Dir.—Prof. W. Q. Kennedy, DSc Glas., FRGS.

OUTLYING DEPTS., ETC. Univ. experimental sm. (pt. of dept. of exper. pathol. & cancer res.), Lumby Hall, S. Milford, Leeds; univ. farm (pt. of dept. of agric.), Headley Hall, nr Tadcaster; marine biol. lab., Robin Hood's Bay, Yorks. Non-residential centres for dept. of adult educn. & extra-mural studies, Morningside Villas, Bradford and 'Brarfield', Middlesbrough.

INSTITUTE OF EDUCATION (see also 'Teaching Staff', above) Constituted in 1948, the inst. exists primarily to further and co-ordinate the trg. of teachers, and to recommend to the Ministry of Educn. for qualified teacher status students, both grad. and non-grad., who have satisfactorily completed a course of teacher trg. The inst. provides facilities for the study of and res. in educn. and acts as a centre of discussion and activity for teachers and others concerned with educn. (see also 'Diplomas', below). It comprises the following constituent member instns: the univ. dept. of educn., Bingley Trg. Coll., Bietton Hall, Carnegie Coll. of Phys. Educn.; City of Leeds Trg. Coll., Huddersfield Trg. Coll., Ilkley Coll. of Housecraft, James Graham Coll., Leeds Coll. of Art (Teacher Trg. Dept.); Margaret McMillan Memorial Trg. Coll.; North Riding Trg. Coll., Ripon Trg. Coll., St. John's Coll., York, Yorkshire Trg. Coll. of Housecraft; and the following associated member instns: dept. of adult educn. & extra-mural studies; dept. of paediatrics & child health; dept. of phys. educn.; dept. of psychiatry; dept. of psychol.; music dept. of Huddersfield Coll. of Technol., Woolley Hall (near Wakefield) residential coll. for teachers' refresher courses).

ADMISSION. See Appendix III. Non-members of the univ. may be admitted to read for dipls. or other non-grad. qualifs. or to attend courses of

tution or pursue res. not leading to quals. of the univ

FIRST DEGREES BA in spec, gen or combined studies—3 yrs, hons awarded to candidates attaining sufficiently high standard. Courses in the following spec schs: Gk lang & lit, Lat lang & lit, classics, Lat with Gk, Semitic langs & lit, English, French lang & lit, French and Latin lang & lit, Spanish lang & lit, Italian lang & lit, German lang & lit, Russian lang & lit, mod langs & lit, hist, philos, philos and one other subj., geog, theol, bibl studies, music, fine art, econ, econ with stats, social, social & philos, political studies, maths., textile design, textile management. Hons students of mod langs normally spend 1 term at an approved foreign univ. BCom—3 yrs, hons awarded to candidates attaining sufficiently high standard. The degree may be taken with accty, with law or with an appl sci as the principal suby, along with econ., supplementary textile subys may be combined with a BCom course. LLB—not less than 3 yrs, ord or hons, degree; hons, candidates take addnl courses and exams. The dept of law prepares students for the bar and solicitors' exams as well as for the univ. degrees. BSc in pure sci (single or combined schemes)—not less than 3 yrs, hons awarded to candidates attaining sufficiently high standard. Courses in the following subys: maths (3 or 4 yrs), phys (3 or 4 yrs); chem (3 or 4 yrs), zool (3 or 4 yrs), bot, (3 or 4 yrs), geol (4 yrs), physiol (4 yrs), psychol (4 yrs), human & compar anat. (4 yrs), bacteriol. (4 yrs); biochem. (4 yrs.), pharmacol. (4 yrs), pharmacy (3 yrs); geog. (3 yrs). BSc hons or ord. (in appl sci): ord courses—3 yrs; most hons courses—4 yrs., but suitably qualified candidates may be permitted to complete the course in 3 yrs. Courses in the following schs: civil engin, mech engin, electr engin; minmg, gas engin, gen fuel sci; ceramics, metall, chem engin, chem of leather manufacture, food sci, colour chem & dyeing, agrar, textile indust, textile phys, textile chem, textile engin, agric, agric bot (hons sch only), agric chem. (hons sch only), agric econ (hons sch only). MB ChB—not less than 4 yrs 3 mos, BChD—not less than 4½ yrs, hons awarded to candidates attaining sufficiently high standard.

HIGHER DEGREES BMus, MA, LL.M, MCom, MChD—grads of Leeds, 1 yr; others, 2 yrs, BD—1 yr., MED, MSc—2 yrs (for hons BSc, 1 yr). Grads of approved univs may obtain the MA, PhD or MSc by 2 yrs of res. Grads of this univ may make appln for the LittD, DMus, DD, LL.D or DSc in the 6th yr after graduation, MD—3 yrs after graduation, ChM—5 yrs after graduation. Grads of other univs who have been admitted to degrees of equal or similar rank in Leeds may, in proceeding to higher degrees, count their standing as grads. from the date of original graduation.

HONORARY DEGREES. LittD, LL.D, DMus, DD, DSc, MA, MSc.

The univ does not award **EXTERNAL DEGREES**

DIPLOMAS Hebrew, Spanish, 2 yrs pt-time, theol, 3 yrs, dyeing, leather manufacture, mining engin, textile industries, 3 yrs, reducible under certain conditions to 2 (no students will be admitted to this course after session 1962-63); colour chem, dent surg (LDS), 4 yrs, nursing, 4 yrs hosp trng and 3 terms' lectures. Dipls of Inst of Educn, open to trg coll lectrs, and serving teachers (grad or non-grad) with at least 5 yrs' approved teaching experience, primary educn, sec. educn, educn of backward children, phys educn, religious educn, curric studies, each 1 yr full-time.

POSTGRADUATE DIPLOMAS. Agric. bacteriol, agric bot, agric. chem, agric econ, agric. zool., agric. (farm management), appl. geophys., ceramics, chem. engin, concrete technol, electronic computing, Engl studies, Engl as a 2nd lang, food sci., fuel sci., gas engin, hist. & philos of sci, industrial management, leather manufacture, metall, mineral dressing & coal preparation, soc. studies, textile industries, 1 yr (sometimes 2) after graduation, pub health, 18 mos pt-time; psychol med, 2 yrs pt-time.

CERTIFICATE Grad cert in educn, 1 yr; grad cert in educnl studies, 1 yr.; nurse teacher's, 1 yr (for SRN.s with 3 yrs' experience plus 1 yr as ward sister), health visitors, 1 yr (for SRN.s with CMB pt. I); in Arabic, 2 yrs pt-time; in Russian, min 2 yrs pt-time, in teaching of Hebrew and teaching of Arabic, 1 yr., for holders of dipl in Hebrew or in Arabic or equivalent qualif. Extension certs. in a wide range of subys, min. 3 acad. sessions.

RESEARCH. Facilities are available in all depts for postgrad study and res. Postgrad. students may be admitted to attend courses of tuition or to pursue res. not leading to a qualif. of the univ. Arrangements should be made with the hd. of the dept concerned; preliminary enquiries about fees, etc, should be addressed to the registrar. The univ. publishes an annual pamphlet, *Publications & Titles of Theses*, and the Inst of Educn. a bulletin of *Researches & Studies* twice yearly.

SABBATICAL AND STUDY LEAVE Sabbatical leave may be given by the council to members of staff after 10 yrs' service. There is no specified min. previous service for applicns. for study leave, and every reasonable effort is made to enable a member of staff to have study leave at times most profitable to himself.

FEES *Inclusive annual academic fees* (covering tuition, exam. and degree fees and, unless otherwise stated, membership of univ union). First degrees BA, £57 (BA spec in textile design or textile management, £67), BCom with accty. or stats, £57 (BCom with agric. econ. or a technol suby, £67), BMus, £37; LLB, £57, BSc, £67 (BSc spec in maths. or geog., £57); MB ChB, £67; BChD, £67. Postgrad. degrees:

BD (grads. of the univ.), £37 (1-yr. course), 2-yr. course £32 (1st yr), £22 (2nd yr), BD (others), £32; MA, MCom, LLM (grads. of the univ) with supervision, £32 (1st yr), £12 (2nd and subsequent yrs.), without supervision (single payment), £15*, MA, MCom (others), £37, LLM (others), £32 (1st yr), £17 (2nd and subsequent yrs.), MEd (2-yr. full-time course), £32 (grads of the univ.), £37 (others), MEd (3-yr part-time course), £24 (grads of the univ.), £27 (others), LittD, DD, DMus, LLD, £30*, MSc with lab facilities, £47, MSc with supervision but without lab. facilities, £32 (1st yr.), £12 (2nd and subsequent yrs.), MSc without supervision (single payment), £15*, DSc, £30* (maths. or geog.), £40* (other subs), ChM, MChD, MD, £25*; PhD in arts, econ, soc studies, law, £37 (candidates studying at the univ), £30* (candidates studying at other approved instns., single payment), PhD in sci., £37 (candidates studying maths or geog. at the univ), £47 (candidates studying other subs. at the univ), £30* (candidates studying at other approved instns., single payment), PhD in technol., £47 (candidates studying at the univ.), £30* (candidates studying at other approved instns., single payment) Dips Hebrew, £37 (as 2-yr course, £15* p.a.); theol, £44, Spanish, £9*, educn of backward children, primary educn, and sec educn, £67 (full-time), £30* (pt-time), religious educn, £15*, phys educn, £92; pub admin, £25* (£20* for 3rd yr); soc. studies, £47 or £57 (as 1-yr course), postgrad. dipl in concrete technol, £47, postgrad. dipl in Engl studies, £100, other postgrad dipls in technol, £67, non-grad. dipls in technol and science, £67, pub health, £50* (1st yr), £30* (2nd yr), psychol med, £30* (pt 1), £50* (pt 2); dent surg, £67; nursing, £28* Certs grad cert in educn, £67, grad cert in educnl studies, £67, Russian, Arabic, teaching of Hebrew, separate lecture fees, nurse teacher's cert, £55*

ACADEMIC SESSION Oct to June or July. 3 terms of 10 wks each

DEPARTMENT OF ADULT EDUCATION AND EXTRA-MURAL STUDIES (see also 'Teaching Staff', above) Dept. of extra-mural studies, instituted in 1946, present title adopted 1952 Vacation courses, extension lecture courses and tutorial classes provided, the latter in co-operation with the W.E.A and L.E.A.s. The dept has assumed responsibility throughout the extra-mural areas for the admin of civilian aid in educn for H M Forces

VACATION COURSES Advanced and specialized courses arranged by the dept. of adult educn & extra-mural studies Vac courses for postgrad students in assoc with other depts Details from sec, dept of adult educn The Inst. of Educn arranges courses for teachers (details from sec of instn.).

PRINCIPAL 'OPEN' AWARDS for first degree. Number of entrance scholps offered annually for award to successful applicants after open competition, monetary value of many of these awards may be supplemented by the Ministry of Educn. Full particulars in prospectus, *Scholarships & Fellowships*, obtainable from registrar

POSTGRADUATE AWARDS open to grads. of other univs. see p 808 *Gregory fellowships in the creative arts* The object of the scheme is to bring younger creative artists into close touch with the univ community. During their tenure (normally 2 yrs.) the fellows live in Leeds, are members of the fac. of arts in the univ and are wholly free to continue the practice of their arts. They are asked to make themselves freely accessible to students and staff and frequently give informal demonstrations and hold discussions.

APPOINTMENTS BOARD (For staff, see 'Admin and Other Staff', above) The bd exists to give advice and information to students and grads about careers and to help them to obtain posts The bd deals with all types of appts for which grads. may be suitable

OVERSEAS STUDENTS' COMMITTEE A warden of overseas students (see p 923) advises overseas students in the univ on their personal and academic problems, helps in bringing them into closer contact with people in the univ. and its neighbourhood and arranges for them to see different aspects of the British way of life

OLD STUDENTS' ASSOCIATION Formed in 1923, has a branch in London Hon secs Mrs Bertha Keightley and Dr K D. Parker

RESIDENCE (For wardens, see 'Admin. and Other Staff', above) Halls of residence for women (fees. £138 to £160 per session) Westwood Hall, Far Headingley, Leeds, 16 (tel warden 53548, students 51771), 85 students, Oxley Hall, Far Headingley, Leeds, 16 (tel warden 55181, students 51717), 131 students, Lupton Hall, Wood Lane, Headingley, Leeds, 6 (tel warden 57510, students 52521), 35 students, Ellerslie Hall, Lofton Place, Leeds, 2 (tel warden 29422, students 25774), 59 students, Tetley Hall, Moor Rd, Leeds, 6 (tel warden 52067, students 56744), 120 students Halls of residence for men (fees £155 to £171 per session), Bodington Hall, Westwood Lane, Leeds, 16 (tel : 672521-2), 300 students, Devonshire Hall, Cumberland Rd, Leeds, 6 (tel : 52641), 180 students, Lyndon Hall, Virginia Rd, Leeds, 2 (tel warden 21276, students 21248), 63 students, Sadler Hall, Church Lane, Adel, Leeds, 16 (tel warden 678074, students 673442), 33 students, Croft Hall, Hyde Terrace, Leeds, 2 (tel warden 21153, students 23949) (hostel for maternity clerks).

Lodgings a joint cttee. of senate and council supervises lodgings for men and women students There is a full-time warden of lodgings (for men's

* This fee does not entitle the student to membership of univ union

lodgings) and a pt -time warden of women students in lodgings

OFFICERS TRAINING CORPS (T.A.), AIR TRAINING SQUADRON AND WOMEN'S ROYAL ARMY CORPS (T.A. sub-unit). Information as to conditions of membership, etc., of these units may be obtained from the commanding officers, while advice about service in the R.N. may be obtained from the naval liaison officer, Lt -Commander C. W. Buckley.

DEPARTMENT OF STUDENT HEALTH Instituted 1949 Provides treatment and advisory services for students, incl. periodical med. exams, annual X-ray exams, preventive inoculations and vaccinations. A sick-bay is provided, under the care of a resident nursing sister.

UNIVERSITY UNION. All students of the Univ. are members of the Univ. Union and have full use of all the union facilities, which incl. a theatre, cafeteria, coffee lounge, Mount Jones lounge used by both staff and students, library, television room, billiards room and numerous common rooms and canteens. The official journal of the union is *The Gryphon*. The *Union News* is published fortnightly. There are over 80 socs, and 36 athletic clubs to provide a large range of indoor and outdoor interests and activities for students. The Union, besides providing a club for students, fulfils the function, through its press and canteen,

of a student representative council. The Univ. athletic grounds are at Westwood, Leeds, 16, and the Univ. boat-house is at Swillington near Leeds. The permanent staff comprises a clerk to the Union and 3 clerical assistants.

PUBLICATIONS *Calendar*, Oct., 1958 plus postage, *Register of Graduates*, 1904 to Dec 1960, 12s 6d plus postage, *Gazette*, 6d per issue, post free, fac & depl't *Prospectuses*, *Publishers & Titles of Theses*, annually 1927-38 and 1950 to the present, 6d each post free, inaugural lectures, Montague Burton and Selig Biodesky lectures, *Univ. of Leeds Review*, 4s p.a. or 2s 6d per issue, *The Private Donor in the History of the Univ. of Leeds*, E. J. Brown, 5s post free, *The Univ. of Leeds the First Half-Century*, Prof. A. N. Shimmmin, 1954, 21s., *Univ. of Leeds Med. Journal*, 3 issues p.a., 19s., *Researches and Studies (Inst. of Educn)*, 2 issues p.a., 9s 6d or 5s per issue post free, *Journal of the Houldsworth Soc.*, annually, 2s 6d post free, *Leeds Univ. Poetry*, annually, 2s 6d plus postage, *Poetry and Audience*, wkly, 1d, *Journal of the Leeds Univ. Mining Soc.*, annually, 3s post free, *Engineering Soc. Journal*, annually, 2s post free. Student publications: *Univ. Union Handbook*, *The Gryphon* (magazine), 3 issues p.a., 3s., *Geste*, 12 issues p.a., 6s., *Counterpoint*, 5 issues p.a., 2s 6d, *Union News* (fortnightly newspaper).

THE YEAR 1960

PRINCIPAL BENEFACTIONS. The late E. Lupton bequest, £83,000, dept. of health educn and welfare, U.S.A., £53,000 for res. in dept. of biomolecular structure, the late T. Ward bequest, £33,400, anonymous, £20,000 for acquisition of collection of books, Internat. Wool Secretariat, £14,625 for res. in clothworkers' depts., Wool Textile Res. Council, £10,725 for res. in clothworkers' depts., Worshipful Co. of Clothworkers, £10,500 towards maintenance of clothworkers' depts.

MAJOR BUILDING DEVELOPMENTS Bldgs. completed: stage I of civil engin. bldg., stage I of new athletics pavilion.

RETIREMENTS Prof. W. Bradley (colour chem.), Prof. D. Chamberlain (surg.), Prof. Sir Andrew Clay (obstet. & gynaeol.), Dr. N. H. Hartshorne (inorg. & structural chem.), Prof. J. McGregor (agric.), G. W. Richardson (hist.).

RESIGNATIONS J. H. Anderson (electr. engin.), Rev. J. N. Birdsall (theol.), Dr. W. P. Black (obstet. & gynaeol.), Prof. A. Briggs (mod. hist.), A. O. T. Charles (dermatol.), Miss Tatjana E. Cizova (Russian), J. G. Dare (pharmacol.), Dr. T. D. Day (cancer res.), E. P. Fitton (anaesth.), Dr. R. O. Gandy (maths.), E. L. Harrison (Latin), Dr. J. F. C. Harrison (adult educn. & extra-mural studies), Dr. J. E. Hemmingway (geol.), M. G. Huft (hist.), J. C. F. Littlewood (adult educn. & extra-mural studies), P. M. J. McNair (Italian), R. S. Mamak (electr. engin.);

Rev. Prof. J. K. S. Reid (theol.); W. G. Rimmer (hist.), J. H. Ross (dent.), Dr. N. B. Slater (maths.), F. G. Smiddy (surg.), Dr. L. M. Stephenson (electr. engin.), Dr. A. F. Thomas (org. chem.), Dorothy M. Turner (agric.), Dr. G. Watkinson (med.), Dr. G. M. Williamson (bacteriol.), T. Wilson (electr. engin.), Dr. P. J. Wyllie (geol.).

DEATHS Prof. W. T. Astbury (biomolecular structure), Emer. Prof. A. N. Shimmmin (former prof. of soc. studies).

HONORARY DEGREES *LLD*—Mr. B. T. Clegg, member of Univ. and Regional Hosp. Bd. Ctcees. on Cancr. Res.; Sir Edwin Herbert, formerly pres. of Law Society. *LittD*—Miss Ivy Compton-Burnett, novelist; Sir John Neale, emci. prof. of Engl. hist., Lond.; Sir George Sansom, member of consular and diplomatic service, 1904-47. *MSc*—P. Gooding, du. of information and asst. secretary, Cement and Concrete Association; W. C. M. Matterson, designer and engineer.

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	3716	184
Women	1073	29
Total	4789	213

Distribution by Faculties *Arts*, 1483; *econ* & *soc studies*, 293, *law*, 161, *med*, 613, *sci*, 918, *technol*, 1534 Total 5002

Included in the figures above are —

Postgraduate students, 683

New admissions, 1676

Students from other countries, 487 (Countries from which largest numbers came India, 99, Nigeria, 30, Germany, 30, Egypt, 28, Turkey, 24)

DEGREES AWARDED (1959-60) *Arts* BA, 32, BA (hons), 300, BMus, 2, MA, 15, MEd, 2 *Econ. & soc studies*, BA, 8, BCom, 5, BA (hons), 49, BCom (hons), 19, MA, 1 *Law*

LLB, 3, LLB (hons), 32, LLM, 1 *Sci* BSc, 26, BSc (hons), 167, MSc, 11 *Technol* BSc, 91; BSc (hons), 142; MSc, 22, DSc, 2 *Med* MB ChB, 49; BChD, 19, MB ChB (hons), 3, BChD (hons), 2, MD, 3, ChM, 2 PhD (all facs.). 85 Total number of first degrees awarded, 947

DIPLOMAS AND CERTIFICATES AWARDED (1959-1960). Engl studies, 18, educn (grad cert), 138, grad cert in educnl studies, 1, primary educn, 10, secondary educn, 10, backward children, 8, phys. educn, 4, religious educn, 6, soc studies, 13, cert in Russian, 3, electronic computing, 3, technol., 66, dent surg, 32

UNIVERSITY OF LEICESTER*

Founded 1957, previously established as a University College, 1918

Postal Address: University Road, Leicester, England

Cables and Telegrams University Leicester

Telephone: Leicester 24211

VISITOR—H.M. THE QUEEN

CHANCELLOR—The Rt Hon. LORD ADRIAN, OM, Hon DSc Penn., Oxon, Harv, Lyons, Lond, Manc, Durh, Johns H, Belf., Wales, N Y., Sheff, Hull, Brazil, Bologna, Freib, Paris & Leic, Hon LLD McG, St And, Glas, Lw, Edin & Dal, Hon MD Brussels, Louvain & Montr, MA MD Camb, FRS, FRCP

PRO-CHANCELLORS—H. P GEE, CBE, JP, Hon LLD; C R KEENE, CBE, JP

VICE-CHANCELLOR (from Aug 1962)—T A FRASER NOBLE, MBE, MA Aberd.

PRO-VICE-CHANCELLOR—Professor J. SIMMONS, MA, FRHistS, FRSL

REGISTRAR—H B MARTIN, BCom Lond, FCIS

LIBRARIAN—D. G F WALKER, MA LLB Glas.

TEACHING STAFF

[†=Part-Time]

Archæology, British

Thomas, S E, MA Camb. Lectr.
Wacher, J S, BSc Lond, FSA Asst Lectr

Smith, J D, BA PhD Camb Lectr
Guthrie, R D, BSc PhD Lond Asst Lectr
Blandamer, M J, BSc PhD S'ton Asst Lectr
Brivati, J A, BSc S'ton Experimental Officer

Biochemistry

Kornberg, H. L., BSc PhD Sheff., MA Oxon Prof.
Jones, K M, MA DPhil Oxon Lectr
Morris, J G, BSc Leeds, DPhil Oxon Lectr
Ashworth, J M, BA Oxon Res. Demr.

Economics

Pool, A G, BSc(Econ) PhD Lond. Prof
Birmingham, W B, BSc(Econ) Lond Sr. Lectr.
Conway, Freda C, BSc Lond, MA(Com) Manc. Lectr
Groves, P S, BSc(Econ) Lond., PhD Camb.

Botany

Tutin, T G, MA Camb, FLS Prof
Conolly, Ann P, MA Camb Lectr
Wangermann, Elisabeth, MSc PhD Manc. Lectr.
Moore, D M, BSc PhD Durh Lectr
Halliday, G., BA PhD Camb Lectr
Tutin, Mrs Winifred, BSc PhD R'dg Sp Lectr

Ford, A. G., MA DPhil Oxon. Lectr
Rees, H, MA Wales Lectr
Donaldson, P, BA Oxon Lectr.
Nath, S K, BA Delhi, BSc(Econ) Lond Asst Lectr

Chemistry

Hunter, L, DSc PhD Lond, FRIC Prof., Hd. of Dept
Symons, M. C R., DSc PhD Lond, FRIC (Phys Chem) Prof
Eaborn, C., DSc PhD Wales Reader
Peeling, E. R. A., BSc PhD Lond., FRIC Sr Lectr
Harvey, S H, BSc PhD Lond Lectr.
Shaw, Florence R, BSc PhD Leeds, FRIC Lectr.
Bott, R W, BSc Belf Lectr
Davidson, I. M. T., BSc PhD St And. Lectr

Education, see also Inst of Educn, below

Tibble, J W, MA Med Leeds Prof
Bantock, G H, MA Camb Reader
Pedley, R, MA PhD Durh Sr Lectr
Wight, R M, BL Aberd Sr Lectr
Roberts, I E, BSc Wales Lectr
Collins, Mrs Mildred, BSc Lond & Birm, Phd Lond Lectr
Flemming, W, MSc MA Lw Lectr.
Simon, B, MA Camb Lectr
Richardson, G, MA Sheff Lectr
Welford, M F, BA Lond Lectr
Kerr, J F, BSc Lw, Phd Belf Lectr.
Wheeler, D H, BSc Lond Lectr

* Member of the Association of Universities of the British Commonwealth

Austin, A., BA BSc(Econ) *Lond.*,
L&L Toulouse
 Eaborn, Mrs Joyce, BA *Wales*
 Hopkinson, Mrs Iris W., BA *Lond.*

Engineering

Parkes, E. W., MA PhD *Camb* Prof.
 Cutteridge, O. P. D., MSc(Eng) PhD *Lond.* Sr Lectr
 Maxwell, R. W., BSc *Lond.*, PhD *Manc.* Sr Lectr.
 Pickering, E. N., MSc(Tech) PhD *Manc* Sr Lectr

Cockrell, D. J., DIC, BSc *Lond.* Lectr
 Freer, H., MA *Camb* Lectr
 Porter Goff, R. F. D., BA *Camb.* Lectr
 Thwaites, J. J., BA *Oxon.* Lectr

English

Humphreys, A. R., MA *Camb*, AM *Harv.* Prof
 Hoggart, H. R., MA *Leeds* Sr Lectr
 Jones, M. Monica B., MA *Oxon.* Lectr
 Luttrell, C. A., BA PhD *Lond* Lectr
 Craik, T. W., MA PhD *Camb* Lectr
 Fraser, G. S., MA *St And* Lectr
 Diaper, R. P., BA PhD *Nott.* Lectr
 Macrae-Gibson, O. D., MA *Oxon* Lectr
 Richardson, Frances E., MA BLitt *Oxon.* Asst Lectr.
 Knight, Ann, BA Tutorial Asst.

French

Skyles, L. C., MA *Sheff.*, DPhil *Oxon* Prof
 Hemmings, F. W. J., MA DPhil *Oxon.* Reader
 Hampton, J., BA *Sheff.*, DUParis Lectr.
 Ince, W. N., MA *Camb*, DUParis Lectr.
 Matthews, J. H., BA *Wales*, DUMontpellier Lectr
 Varty, E. K. C., BA PhD *Nott.* Lectr
 Favre, A. C., L&L *Toulouse* †Lectr
 Hoy, P. C., MA *Wales* Asst. Lectr.
 Topliss, Patricia, BA *Lond* Tutorial Asst
 2 Lecteurs/Lectrices

Geography

Pye, N., BA *Manc* Prof
 Kirk, W., BA *Lond* Sr Lectr
 Millward, R., MA *Camb.* Lectr
 Robinson, A. H. W., MSc *Lond* Lectr
 Warren, K., BA PhD *Camb* Lectr
 Wallwork, K., MA *Manc* Lectr.
 Oldfield, F., BA *Lev.* Lectr
 Ruce, R. J., MA *Lond.* Lectr
 Crossley, J. C., MA *Sheff* Lectr.
 Goodridge, J. C., BA *Lond.* Tutorial Asst

Geology

Sylvester-Bradley, P. C., BSc *R'dg*, FGS Prof.
 Whitaker, J. H. McD., MA *Camb.*,
 BSc *Lond*, FGS Lectr.
 Ford, T. D., BSc PhD *Sheff*, FGS Lectr
 Evans, A. M., BSc *Lev.* Lectr
 Le Bas, M. J., BSc *Lond*, PhD *Camb* Asst Lectr.

German

Powell, P. H., MA *Wales*, DPhil *Rostock* Prof
 Willson, H. B., MA *Camb.* Lectr
 Mayut, R., DPhil *Greifswald* Hon. Lectr
 Bridgwater, W. P., BA BLitt *Oxon.* Lectr
 Ellis, J. M., BA *Lond.* Asst. Lectr.
 1 Lektor

Government, see Pol.

Greek, see Latin and Greek

History

Simmons, J., MA *Oxon*, FRHistS, FRSL Prof
 Evans, Miss. Anne K. B., BA PhD *Lond.*,
 FRHistS, FSA Lectr.
 Evans, R. H., MA *Oxon* Lectr.
 Scarfe, N., MA *Oxon* Lectr.
 Martin, G. H., MA DPhil *Oxon*, FRHistS Lectr
 Newman, A. N., MA *Glas. & Oxon*,
 DPhil *Oxon* Lectr
 Cohn, H. J., BA *Oxon* Asst Lectr

History, Economic

Dyos, H. J., BSc(Econ) PhD *Lond* Sr Lectr
 Crispin, Barbara, BSc(Econ) *Lond.* Asst. Lectr.

History, English Local

Finberg, H. P. R., MA DLitt *Oxon*, FSA,
 FRHistS Reader, Hd of Dept
 Thursk, Mrs. I. Joan, BA PhD *Lond*
 (Agrarian Hist) Sr Res Fellow
 Everitt, A. M., MA *St. And*, PhD *Lond*
 (Urban Hist.) Res. Fellow
 Midgley, Laura M., MA *Manc.*
 (Agrarian Hist.) Res. Asst

History of Science

McGuire, J. E., BA *W Ont* Lectr.
 Brock, W. H., BSc *Lond*, MSc Tutorial Asst

Latin and Greek

Wasserstein, A., BA PhD *Lond.* Prof
 Rushworth, E., MA *Camb* Lectr
 Spire, Sheila G., MA *Camb* Lectr
 Cloud, J. D., MA *Oxon*, BLitt *Glas* Lectr
 Cloud, Mrs Jean A., MA *Oxon &*
Bryn Maur Asst Lectr

Mathematics

Goodstein, R. L., BA MSc *Camb.*, DLitt
 PhD *Lond* Prof
 Davies, R. O., MA PhD *Camb* Reader
 Whitfield, E. V., MA *Camb*, BSc *Manc* Sr Lectr
 Primrose, E. J. F., MA *Oxon.*, PhD *Lond.* Sr Lectr
 Downton, H. F., DIC, BSc *Lond* Sr Lectr
 Bowen, N. A., MSc *Wales*, BSc *Lond*,
 PhD *Aberd* Sr Lectr.
 Buckley, R., MSc *Lond* Lectr.

Knight, A. J., MSc *Lond.*, PhD *Camb*
 Weinmann, A., BSc PhD *Lond*
 Rahman, N. A., MA *Alld*, MSc *Cale*,
 PhD *Camb*
 Twiddle, A., BSc *Lond*
 White, D. J., BSc *Lond*
 Wheeler, R. F., BA *Camb*
 Zarrop, M. B., MA *Lond*
 Ault, J. C., MSc *Manc*
 Fisher, B., BA *Oxon*

Lectr
 Lectr
 Lectr
 Lectr
 Lectr
 Lectr
 Asst Lectr
 Asst Lectr

Music

Mulgan, D. M., BA BMus *Oxon*.

Du

Philosophy

Nowell-Smith, P. H., MA *Oxon.*, AM *Harv.* Prof
 Nerlich, G. C., MA *Adel*, BPhil *Oxon* Lectr
 Romney, Gillian, BA *Oxon* Asst Lectr
 Moss, J. M. B., MA *Camb.* Asst Lectr

Physics

Stewardson, E. A., MSc *Lov.*, PhD *Camb* Prof.
 Haywood, C. A., MSc *Birm*, FIP Sr Lectr
 Wilson, J. E., MA *Oxon* Lectr
 Spear, W. E., BSc PhD *Lond* Lectr
 Russell, P. C., MSc PhD *Lond.* Lectr
 Matsukawa, E., BSc PhD *Lond.* Lectr
 Banyard, K. E., BSc PhD *Sheff* Lectr
 Brigmen, Violet A., BSc PhD *Edin* Lectr
 Pounds, K. A., BSc PhD *Lond* Lectr
 Jones, T. B., BSc PhD *Wales* Asst Lectr
 Mort, J., BSc Res Demr
 Underwood, J. H., BSc Res Demr

Politics

Miller, J. D. B., MEd *Syd* Prof
 Hookham, M., BSc(Econ) *Lond* Lectr
 Hughes, C. J., BA BPhil *Oxon* Lectr
 Lyon, P. H., BSc(Econ) *Lond* Lectr
 Day, J., BA *Camb* Lectr
 Hanak, H., MA *Dub. & Lond* Asst Lectr
 Parks, P. G., BA *Tas. & Oxon.* Tutorial Asst

Psychology

Lee, S. G. M., MA *Natal*, PhD *Lond.* Prof.
 Sluckan, W., BSc(Eng) BSc PhD *Lond* Lectr.
 Pickersgill, Mary J., BA *Oxon*, PhD *Leeds* Lectr.

Sociology (including Social Studies)

Neustadt, I., DrSc(Econ) *Liège*, PhD *Lond*
 Hd of Dept
 Elias, N., MB DPhil *Bres* Reader
 Jones, H., BSc(Econ) PhD *Lond* Lectr
 Warham, Joyce, BA *Lov* Lectr
 Henderson, Jane T., BA *Lond* Lectr.
 Cohen, P. S., BCom *Rand*, BSc(Econ) *Lond.*
 Bevington, D. Mary, BA *Nott.* Lectr
 Young, Priscilla H. F., MA *Edin* Lectr
 Williams, Mrs Sheila, BA *Lond* Lectr
 Duncan, P., BA *Hull* Asst. Lectr
 Brown, R. K., BA *Camb.* Asst. Lectr.
 Holloway, S. W. F., BA *Lond.* Asst. Lectr.
 Giddens, A., BA *Hull* Asst Lectr
 Hopkins, M. K., BA *Camb.* Asst Lectr
 Albrow, M. C., BA *Camb* Tutorial Asst

Zoology

Moon, H. P., MA *Camb*, FLS Prof.
 Moody, Joyce, BSc *Sheff* Lectr
 Guthrie, D. M., BSc PhD *Lond* Lectr
 Sage, M., BSc PhD *Nott* Asst Lectr
 Cook, L. M., BSc *Lond*, DPhil *Oxon* Asst Lectr

INSTITUTE OF EDUCATION

Tibble, Prof. J. W., MA *Med Leeds* Dir.
 Joselin, A. G., MA BSc *Lond.*, PhD *Leeds* Dep. Dir.
 Swanson, B. Mary, MA *Lond.*,
 DPhil *Oxon* Lectr
 Musgrove, F., MA *Oxon*, PhD *Nott* Lectr.
 Churchill, Eileen M., MA *Leeds* Lectr
 Taylor, P. H., BA *Med Manc.* Lectr
 Garvie, Margaret E., BSc *Lond.* Lectr.
 Higson, Constance W. J., MA
 PhD *Camb.*, FLA Librarian

EXTRA-MURAL ADULT EDUCATION

Allaway, A. J., MA *Sheff* Prof
 Collins, P. A. W., MA *Camb*
 Sr Lectr & Warden, Vaughan Coll
 Halloran, J. D., BSc(Econ) *Lond* Staff Tutor
 Bryden, R. E., BA *Durh* Staff Tutor

ADMINISTRATIVE AND OTHER STAFF

REGISTRAR'S OFFICE Sr. Asst Registrar G B
 Pyrah, BA PhD *Leeds* Asst Registrar E. C
 Burford, BA *Lond* Sr Assts A R Roper,
 P. Edwards, BA *Lond* Accountant E. C
 Goldspink, FCA Asst Accountants F C
 Pope, F. G. Vanderweede Sr. Asst C. B
 Arnold Bursar F. G. Sutton Asst Bursar:
 R. H. Float, BA *N Staffs* Vice-Chancellor's
 Sec.: Olive Wood, BA *Lond* Registrar's Sec.
 Marjorie B. Wood, BA *Nott.*

LIBRARY Sub-Librarian J. A. Barker, MA
 Edin Sr Asst Librarians M Ivory R Buchan,
 MA *Edin*, FLA, Maureen Bateman, MA *Camb.*

Asst Librarians L M Beldowski, BA *Lond*;
 Sheila Griffiths, BA *Manc* Asst. Margaret J
 Wilman, BA *Lond.*

WARDENS OF HALLS OF RESIDENCE Dorothy M
 Forster, MA *Oxon* (College Hall), Constance M
 Grierson, BA *Camb.* (Clare Hall); R. L. Bishop
 (Beumont Hall); I E Roberts, BSc *Wales*
 (Gilbert Murray Hall); P. C. Russell, MSc PhD
Lond (Salisbury Hall), J Crompton, BA *Manc*,
 MA *BLatt Oxon* (Digby Hall)

DEPT. OF ADULT EDUCN. Sr Asst. H. N.
 Jeffery (Bursar, Vaughan Coll.).

GENERAL INFORMATION

The Univ. Coll. of Leicester was founded in 1918. The original site and bldgs, which date from 1837, were given by the late T. Fielding Johnson in 1919, and a substantial endowment fund was subscribed by leading citizens. In 1945 the coll. was recognized by the Univ. Grants Ctee. and placed on the list of univ. instns. receiving grants from the Treasury; in 1950 it received a royal charter of incorporation as a univ. coll. The coll. was incorporated in the Univ. of Leicester, constituted by royal charter, in 1957.

CONSTITUTION Under the charter the governing body is the univ. court. The council is responsible to the court for the management of the whole of the univ.'s affairs. The senate, an academic body consisting entirely of members of staff, controls, under the council, the academic affairs of the univ. The bds. of the facs. are responsible to senate for the work of the respective facs. Convocation consists of all grads of the univ., together with the officers and academic staff. It appoints reps. on court, and may communicate with court, council or senate on any matter affecting the univ.

INCOME (1960-61) £595,000 (endowments, etc., 1 per cent; fees, 13 per cent; local grants, 2 per cent; govt. grants, 78 per cent; other sources, 6 per cent).

FACULTIES AND DEANS *Arts*, Prof. P. H. Powell (German); *educn.*, Prof. A. J. Alloway (adult educn.); *sci.*, Prof. T. G. Tutin (bot.); *soc. sci.*, Prof. J. D. B. Miller (pol.).

UNIVERSITY PRECINCT The main univ. bldgs are in University Rd., about 1 ml. from the city centre. The original bldg has been considerably altered and extended; new bldgs were opened for biol. in 1951, refectory and students' union in 1958, chem. in 1960, phys. in 1961. New bldgs for engin., maths., geog., geol. and adult educn. are under constrn. Vaughan Coll. (Great Central St.) is the main centre in Leicester for the adult educn. dept. Halls of residence are situated at Oadby (for men) and at Knighton (for women). 2 new halls were opened in 1960 and 1961 and 2 are under constrn. The bot. gdns are at Beaumont Hall, Stoughton Drive South.

LIBRARY 135,000 vols.; special collections: the Robjohn collection of bibles, the works of Bunyan and early printed books, the Hatton topographical library, transport hist. A large extension to the library was completed in 1954.

DEPT. OF EDUCATION The offices of the dept. are at 152 Upper New Walk, Leicester (tel. Leicester 24740).

INSTITUTE OF EDUCATION (*see also* 'Teaching Staff', *above*). The inst. occupies separate premises at 328 London Rd., Leicester (tel. Leicester 78133), where it provides lecture rooms, reading rooms, library (20,000 vols.) and an

information service for teachers. The inst. is an area training organization for the trg. of teachers. It comprises the following constituent member instns.—the univ. dept. of educn., Leicester Coll. of Art; City of Leicester Trg. Coll.; Leicester Domestic Science Trg. Coll.

ADMISSION. *See* Appendix III.

FIRST DEGREES (*=may be awarded with hon. or as pass degree) BA, BSc. BA general*—3 yrs. (1 subj. for 3 yrs., 2 for 2 yrs. and 1 for 1 yr.; or 1 subj. for 3 yrs., 1 for 2 yrs. and 3 for 1 yr.) BA special*—not less than 3 yrs. during which student reads as main subj. one of classics, Latin, Greek, Engl., French, German, hist., geog., maths., psychol., together with (except for classics) 1 or 2 supplementary subjs. BSc general*—3 yrs. (1 subj. for 3 yrs., 2 for 2 yrs. and 1 for 1 yr., or 1 subj. for 3 yrs., 1 for 2 yrs. and 3 for 1 yr.; or 2 subjs. for 3 yrs. and 2 for 1 yr.) BSc special*—not less than 3 yrs. during which student reads as main subj. one of: chem., phys., bot., zool., maths., geog., geol., biochem., engin., together with 1 or 2 supplementary subjs. BA in soc. sci. *—not less than 3 yrs. (after 1 yr. common to all courses for this degree student reads as main subj. one of econ., sociol., pol. or geog.).

Final exam. in main subj. of all special degrees (except hist., bot., zool.), is in two pts., pt. 1 being taken at end of 2nd yr.

HIGHER DEGREES MA, MSc, MEd., not less than 1 yr. full-time or 2 yrs. pt.-time. PhD, not less than 2 yrs. full-time or 3 yrs. pt.-time. DLitt, DSc, on public contributions to knowledge.

HONORARY DEGREES. DLitt, DSc, LLD.

The univ. does not award EXTERNAL DEGREES.

DIPLOMAS AND CERTIFICATES. Grad. cert. in educn. (postgrad. 1-yr. course); dipl. in soc. psychol. of educn. (1-yr. course for experienced teachers); cert. in appl. soc. studies (1 yr. post-credential course).

RESEARCH Facilities for postgrad. res. are available in all depts.

ALLIANCE Students from the Univ. of Tubingen regularly spend 1 or 2 terms at Leicester and there are frequent exchange visits by sports teams.

STUDY LEAVE. No regular practice, but senate deals generously with applicants by members of staff for leave of absence.

FEES. *Annual composition fees* (incl. registration, matric., tuition, exam. and graduation, but excl. students' union sub. and lab. fees) BA, £50; BSc, £60; MA, PhD (arts and soc. sci.), £30; MSc, MEd., PhD (sci.), £40; cert. in educn., £60; dipl. in soc. psychol. of educn., £65; cert. in appl. soc. studies, £65. Students' union sub. (compulsory), £5 5s p.a.

ACADEMIC YEAR. Oct. to June. 3 terms of 10 wks. each.

EXTRA-MURAL ADULT EDUCATION (*see also* 'Teaching Staff', *above*). The extra-mural dept covers Leicester, central and south Leicestershire, and Rutland, and its main centre at Vaughan Coll (Great Central St, Leicester, tel Leicester 57368) provides a wide range of courses in non-vocational subjects and full student amenities.

SCHOLARSHIPS. Open schols., value £40-£50 a yr., are awarded annually on a schols. exam. held in Jan. The schols. are recog by the Ministry of Educ. for the award of state schols.

POSTGRADUATE AWARDS open to grads of other univs. *see p. 808*

APPOINTMENTS. An appts. service, under the direction of the registrar, is provided for present and former students.

GRADUATES' ASSOCIATIONS. For convocation, *see* 'Constitution', *above*. The Old Students' Assocn holds a reunion in Sept each yr., and keeps members in touch with each other and with univ activities and developments by means of regular *News Letters*.

RESIDENCE. (For wardens, *see* 'Admin and Other Staff', *above*). For women (fees £150 a session): College Hall, Knighton Rd (tel. warden, Leicester 73345), 240 students; Clare Hall, Elms Rd. (tel. warden, Leicester 73317), 130 students. For men (fees £155 a session): Beaumont Hall, Stoughton Drive South (tel. warden, Leicester 77322), 180 students; Digby Hall, Stoughton Drive South (tel. warden, Oadby 5077), 190 students; Gilbert Murray Hall, Manor Rd (tel. warden, Oadby 2263), 85

students; Salisbury Hall, Salisbury Rd (tel.: warden, Leicester 21817), 75 students.

STUDENTS' UNION (tel. Leicester 59658). All full-time students are required to be full members of the students' union, which controls the 60 clubs and socs which organize its social, cultural and athletic activities.

ATHLETIC FACILITIES. Two athletic grounds and pavilions are available: one at Wigston Fields, with pitches for cricket, hockey and rugby, and hard tennis courts, the other at University Fields, Oadby (Fields House, Manor Road (tel. Oadby 864)), with a first-class cinder running track, hard tennis courts, and pitches for cricket, soccer and hockey.

PUBLICATIONS. *Calendar* (annually), *Handbook* (annually), *Gazette* (termly), *Report and Accounts* (annually), *Publications List* (annually), *Journal of Transport History* (half-yearly), *Philosophical Books* (quarterly), *English Local History Occasional Papers* (two or three annually), *Leicester and its Univ.*, by Prof J Simmons (1957), *New University*, a history of the Univ Coll, by Prof J Simmons (1958), 158, *Inaugural Lectures*, students' union magazine *The Luciad*.

UNIVERSITY PRESS. The univ., through the Leicester Univ Press, regularly publishes books and papers of an academic character. Details are given in the *Publics List* issued by the press.

UNIVERSITY BOOKSHOP. There is a univ bookshop, run by the univ and open to the public, in the refectory and students' union bldg.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS. *Bldgs completed.* Chem teaching & res., women's hall of residence (184 places).

RETIREMENTS. Prof P. Leon (classics).

RESIGNATIONS. Dr. Z. P. Dienes (maths), apptd. reader, Adel; H. R. Harré (philos), apptd. lectr, Oxford; Dr. R. Harris (French), apptd. lectr, Oxford; Dr. A. N. Hunter (phys), apptd. to chair, Royal Coll, Nairobi; Dr. M. G. Webb (zool).

HONORARY DEGREES. LLD—Lord Morrison of Lambeth. DSc—Air Commodore Sir Frank Whittle, Prof Sir Alexander Todd. D Litt—J. Piper, artist and author.

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	880	62
Women	493	13
Total	1373	75

Distribution by Faculties. Arts, 420; educn, 226; sci., 544; soc sci, 258. Total 1448

Included in the figures above are—

Postgraduate students, 275

New admissions, 622

Students from other countries, 91. (Country from which largest number came: Nigeria, 15).

DEGREES AWARDED (1959-60) Arts BA, 103, MA, 1. Educn., MEd, 2. Sci BSc, 105; MSc, 3. Soc sci BA, 42, MA, 1. PhD (all facs.) 3. Total number of first degrees awarded, 250

DIPLOMAS AWARDED (1959-60) Soc studies, 26

CERTIFICATES AWARDED (1959-60) Grad educn., 130

UNIVERSITY OF LIVERPOOL*

Founded 1903, previously established as University College, Liverpool, 1881

Postal Address. Brownlow Hill, Liverpool 3, England

Cables and Telegrams. University, Liverpool

Telephone: Royal 6022

VISITOR—H M THE QUEEN

CHANCELLOR—The Most Hon. THE MARQUESS OF SALISBURY, KG, JP, Hon DCL Oxon, Hon LLD Manc., Camb, Lond. & Lvo, Hon LittD Exe, FRS

PRO-CHANCELLORS—D NORMAN, MC, JP, MA Camb, Hon LLD McM, The Rt. Hon THE VISCOUNT LEVERHULME, TD, JP, BA Camb, President of the Council

VICE-CHANCELLOR—SIR JAMES MOUNTFORD, MA Oxon. & Birm., DLitt Birm, Hon DCL Oxon., Hon. LLD Wales, Birm., Manc. & Alta, Hon LittD Dub

VICE-PRESIDENT OF THE COUNCIL—B. NELSON, CBE, JP

TREASURER—E A. G CAROE, CBE, BA Camb.

DEPUTY-TREASURER—H. B. CHRIMES, MA Camb.

PRO-VICE-CHANCELLORS—Professor F. E. HYDE, MA PhD Lond., FRHistS, Professor L ROSENHEAD, CBE, PhD Leeds & Camb., DSc Leeds, FRS

DEAN OF THE FACULTY OF MEDICINE—J. M. LEGGATE, MB ChB, FRCS

REGISTRAR—S DUMBELL, OBE, MA

DEPUTY REGISTRAR—H H BURCHNALL, MA Oxon

LIBRARIAN—D A CLARKE, MA Oxon

TEACHING STAFF

[†=Part-Time]

Accountancy, see Comm

Anatomy

Harrison, R. G., MA DM Oxon. Derby Prof
Braithwaite, J. L., MD Manc., PhD Sr Lectr
Macmillan, E. W., MBE, MD Edin Sr Lectr.
Harrison, G. A., MA Camb, MA DPhil Oxon.,
BSc Lond (Phys Anthropol) Lectr.
Clegg, E. J., MB ChB Sheff., PhD Lectr
Bowsher, D. R., MA MD Camb Lectr.
Brookes, M., MA BM BCh Oxon Lectr.
Hughes, J. H., MD ChM, FRCS
(Appl Surg A) †Lectr
Whitaker, P. H., MD DMRE, FFR
(Appl. Radiol. A) †Lectr.
Wright, J. E., MB ChB Cancer Res Asst

Archæology, see also Hist., Anc

Fairman, H. W., MA (Egyptol) Brunner Prof
Powell, T. G. E., MA Camb., FSA
(Prehistoric A of W Europe) Rankin
Sr. Lectr.

Architecture, see also Civic Des.

Gardner-Medwin, R., BArch Dipl Civic
Design, FRIBA Roscoe Prof
Wilkinson, S., BArch Sr. Lectr. & Studio Instr
Lecturers and Studio Instructors
Phillips, W. J., DiplArch Cardiff, Dipl
Civic Design
Morgan, B. G., BArch PhD Dipl Civic Design
Beech, G. R., BArch Dipl Civic Design
Thompson, J. S., TD, BArch
Pietka, L. J., IngArch PolishSch of Archt.(Lvo.),
Dipl Civic Design
Stewart, D. M., DA DipTP Edin.
Jones, F. M., BArch
Hughes, J. Q., MC, PhD Leeds, BArch
Dipl Civic Design
Huws, R. L., BEng
Pinfold, H. C
Riley, C., BArch MCD

Honorary Instructor in Architectural Crafts-
manship

Smith, H. T., Hon MA

* Member of the Association of Universities of the British Commonwealth

Bacteriology, see Medicine**Biochemistry**

Morton, R. A., PhD DSc, FRIC, FRS
Johnston Prof.
Glover, J., MSc *Belf*, DSc PhD
Leveihulme Sr. Lectr
King, H. K., MA PhD *Camb*, FRIC Sr. Lectr
Pitt, G. A. J., BSc PhD Lectr
Redfearn, E. R., BSc PhD Lectr
Green, C., BSc PhD Lectr
Hemming, F. W., BSc PhD Lectr

Botany

Burges, N. A., MSc *Syd*, PhD *Camb*
Holbrook Gaskell Prof
Heywood, V. H., BSc *Edin.*, PhD *Camb.*,
FLS Sr. Lectr.
Coul, D. A., MSc *Lond.* Lectr
Burrows, Mrs. Elsie M., BSc PhD *Lond.*,
FLS Lectr
Dixon, P. S., MSc PhD *Manc* Lectr
Hurst, H. M., BSc PhD *Lond* Lectr.
Parkinson, D., BSc *Lond*, PhD *Nott* Lectr
Boulter, D., MA DPhil *Oxon* Lectr
McNeill, J., BSc PhD *Edin.* Lectr
Cook, C. D. K., BSc *Edin.*, PhD *Camb* Lectr
Gray, T. R. G., BSc *Nott.* Asst Lectr
Hulme, J. K. Hon. Lectr
Cook, A. R., MSc *Lond* Demr.

Celtic Studies

Richards, M., MA *Wales*
Reader, Hon. Lectr in Compar. Philol

Chemistry, see also Biochem.

Kenner, G. W., PhD ScD *Camb*
(Org. C.) Heath Harrison Prof.
Bawn, C. E. H., CBE, BSc PhD *Brist*, FRS
(Inorg. & Phys. C.) Grant Brunner Prof
Hickling, A., DSc PhD *Sheff.*, FRIC
(Phys. C.) Reader

Senior Lecturers

Butement, F. D. S., BSc PhD *Lond.* (Radiochem.)
Beer, R. J. S. E., MA DPhil *Oxon.* (Org. C)
Holliday, A. K., DSc PhD *Leeds*
(Inorg. & Phys. C)
Douglas, H. W., DSc PhD, FRIC
(Inorg. & Phys. C)
Grimley, T. B., BSc PhD *Brist*
(Inorg. & Phys. C)
Tipper, C. F. H., DSc PhD *Brist.*
(Inorg. & Phys. C.)

Lecturers

Dean, F. M., BSc PhD (Org. C)
Skurrow, G., BSc PhD *Lond.* (Inorg. & Phys. C)
Holker, J. S. E., MSc PhD (Org. C)
Sutcliffe, L. H., BSc *Lond.*, PhD *Leeds*
(Inorg. & Phys. C)
Jackson, A. H., MA PhD *Camb.* (Org. C)
Brennan, D., BSc PhD *Belf.* (Inorg. & Phys. C)
Margerson, D., BSc PhD (Inorg. & Phys. C)

Robinson, M. J. T., MA DPhil *Oxon.* (Org. C)
Sheppard, R. C., MA PhD *Camb* (Org. C.)
Ledwith, A., BSc *Lond.*, PhD (Inorg. & Phys. C.)
Bradley, J. N., BSc PhD *Birm.*
(Inorg. & Phys. C)
Hughes, G., BSc PhD *Manc.* (Inorg. & Phys. C.)
North, A. M., BSc PhD *Aberd.*
(Inorg. & Phys. C)
Bethell, D., BSc PhD *Lond* (Org. C)
Nicholls, D., BSc PhD *S'ton*
(Inorg. & Phys. C)
Feeny, J., BSc PhD (Inorg. & Phys. C)
Abraham, R. J., BSc PhD *Birm* (Org. C)

Senior Research Assistant

Shaw, D. F., BSc PhD *Manc.* (Org. C.)

Research Assistant

Wilde, Miss Marion I. H., PhD *Zur.* (Org. C.)

Demonstrators

Hollowood, J., BSc (Org. C.)
Webster, B. R., BSc (Org. C)
Scully, N. F., BSc (Org. C)
Ross, W. J., BSc (Org. C)
Stanway, D. N., BSc (Org. C)
Turner, R. W., BSc (Org. C)
Sach, G. S., BSc (Org. C.)

Assistant Lecturer

Tomlinson, C., BA *Camb.*, MSc (Org. C)

Civic Design

Wright, H. M., MA *Camb*, FRIBA Lever Prof
McCaughan, R. E. M., MA BArch, FSA
Sr. Lectr.
Reynolds, Josephine P., MA BArch Lectr
Brenikov, P., MA Dipl Civic Design
Lectr. & Studio Instr.

Crompton, D. H.
Leverhulme Res. Fellow & Lectr
Weddle, A. E., BArch DipTP *Durh* Lectr
Masser, F. I., BA MCD Lectr

†Special Lecturers

Taylor, A. J. E., LL.M.
(Law Relating to Planning & Housing)
Reed, C. D., MEng (Principles of Civic Engin)

Classics: Greek

Armstrong, A. H., MA *Camb* Gladstone Prof.
Pinsent, J., MA DPhil *Oxon* Lectr
Collard, C., MA *Camb.* Asst. Lectr
Martin, W. J., MA *Dub.*, PhD *Leip*
(Hellenistic G.) Hon. Lectr

Classics: Latin

Austin, R. G., MA *Oxon.*, Hon. DLitt *Glas.* Prof.
Bonner, S. F., MA *Camb* Sr. Lectr
Townend, G. B., MA *Oxon.* Sr. Lectr
Barr, W., BA PhD *Lond* Lectr
Marshall, P. K., BA *Wales & Oxon* Asst. Lectr.

Commerce

Parkinson, B. B., MSc(Econ) BCom *Lond.*,
FCA (Accty.) Sr. Lectr
McKenzie, R. J. H., FCA (Accty.) †Lectr

Dentistry, see below**Economics**

Hyde, F. E., MA PhD *Lond.*, FRHistS
Chaddock Prof.
Shackle, G. L. S., BA PhD *Lond.*,
DPhil *Oxon.* (Econ. Sci.) Brunner Prof
Clayton, G., MA *Camb* Sr Lectr.
Robertson, W., MA *St. And* Sr. Lectr
Pleasant, S., MSc(Econ) *Lond* Lectr
Marriner, Sheila, MA PhD Lectr
Parker, H. R., BA Lectr.
Osborn, W. T., MA *Camb.*, BSc(Econ) *Lond* Lectr

Saul, S. B., BCom PhD *Birm* Lectr.
Cunningham, N. J., BA (on leave) Lectr.
Harris, I. R., MA PhD *Mane* Lectr
Brechtling, F. P. R., BA *Dub* Lectr
Kell, I. J. E., BA *Brist* (Econ Hist.) Tutor

Education

Porteous, A. J. D., MA *Edin* & *Oxon*
Sydney Jones Prof.
Tempest, N. R., EdM *Harv*, MA
Dir. Inst of Educn, William Roscoe Prof
Murphy, J., MA PhD, FRHistS Sr Lectr
Spence, Margaret E., MA *Brist*, PhD Lectr
Wallace, J. E., DMus *Durh.*, FRCO

Tozer, A. H. D., MA *Camb.* (Music) †Sp. Lectr.
Griffiths, J., MA, FRHistS Lectr.
Moore-Rinvoulcri, Mrs Mina J., DU*Stras.*,
MA Lectr.
Larwood, H. J. C., MSc Ed *Durh.* Lectr.
Duncan, T., BSc *St. And* Lectr.
Hughes, W. J., BSc *Wales*, PhD *Camb.* Lectr
Graves, N. J., BSc MA *Lond* Lectr
Steel, Mrs. Eileen M., MA *Oxon* (Geog.) †Sp. Lectr.

Robertson, G. S., MD *Tor.* (Physiol & Sch Hyg) †Sp Lectr
Brennell, Cicely D., MA (Mod Langs) Tutor
Perks, M. T., MA BLitt *Oxon.* †Tutor & †Demr
Murphy, Mrs. Anna-Britta (Weaving) †Teacher
& Supervisors in School Practice

Egyptology

Fairman, H. W., MA Brunner Prof
Kitchen, K. A., BA (Egyptian & Coptic) Lectr

Engineering, see below**English Language and Philology**

Potter, S., MA *Lond*, BLitt *Oxon*,
PhD *Prague* Baines Prof
Collidge, E., MA Reader

Bazare, Joyce, MA *Leeds* Lectr
Blake, N. F., MA BLitt *Oxon* Lectr

English Literature

Muir, K., MA *Oxon* King Alfred Prof
Allott, K. C. B., MA *Durh*, BLitt *Oxon*
A. C. Bradley Sr Lectr
Davies, R. T., MA *Oxon.* Lectr.
Allott, Mrs. Miriam, MA PhD Lectr.
Grundy, Joan, MA *Lond.* Lectr
Schanzer, E., MA *Tor* (on leave) Lectr
Bawcutt, N. W., MA Lectr
Hunter, G. K., MA *Glas*, DPhil *Oxon* Lectr.
Ewbank, Mrs Inga-Stina, MA *Sheff* Asst Lectr.

Entomology, see Parasitol**Esperanto**

Lamb, N. J., MA †John Buchanan Lectr

French

Fletcher, F. T. H., MA DLitt *Birm*,
DUNancy James Barrow Prof.
Linskill, J., DU*Stras.*, MA *Durh* Sr Lectr
Knowles, Dorothy, MA *Leeds*, DèS*L Paris* Lectr
Cullerne, A. C., MA Lectr
Rees, G. O., MA *Wales* Lectr
Zama, Lucrezia A., MA Lectr.
Chadwick, C., DU*Paris*, MA Lectr
Rees, Mrs Margaret A., MA PhD *Lond* †Asst
2 Tutors

Genetics

Sheppard, P. M., MA DPhil *Oxon.* Reader
Walker, S., BSc PhD *Leeds* Lectr.
Cox, B. S., MA DPhil *Oxon.* Lectr

Geography

Steel, R. W., BSc MA *Oxon* Rankin Prof
Learmonth, A. T. A., MA PhD *Edin.* Sr Lectr.
Lawton, R., MA Lectr
Gregory, S., MA PhD, FRMetS Lectr
Simpson, E. S., MA Lectr
Brooks, E., MA PhD *Camb* Lectr
Patmore, J. A., MA BLitt *Oxon* Lectr
Prothero, R. M., MA *Wales* Lectr
Driscoll, E. M., MSc *Lond.* Lectr
Harley, J. B., BA PhD *Birm* Lectr.
Gresswell, R. K., MA PhD, FGS †Sp Lectr
Bower, Margaret M., MSc *Lond.* Asst. Lectr
Kenworthy, Joan M., MA BLitt *Oxon.* Asst. Lectr

Geology

Shackleton, R. M., BSc PhD George Herdman Prof
Harper, J. C., MSc *Lond*, PhD, FGS Sr Lectr
Flinn, D., BSc PhD *Lond*, FGS Sr Lectr
Rast, N., BSc *Lond*, PhD *Glas*, FGS Sr Lectr
Wilson, C. D. V., MA PhD *Camb* Lectr
Bathurst, R. G. C., MSc *Lond*, FGS Lectr
Phillips, E. Awen, BSc *Wales* Demr
Brenchley, P. J., BA *Camb* Demr

German

Williams, W. D., MA DPhil Oxon	Prof
Wirtz, Erka A., MA	Lectr
Barker, D., MA	Lectr
Fox, W. H., MA	Lectr
Harrison, L., BA <i>Birm.</i>	Asst. Lectr
Leaver, Jean M., MA <i>Lond.</i>	Asst. Lectr

Hebrew and Ancient Semitic Languages

Martin, W. J., MA <i>Dub</i> , PhD <i>Leip</i>	Rankin Sr. Lectr.
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Hispanic Studies

Sloman, A. E., MA <i>Oxon</i> & <i>Dub</i> , DPhil <i>Oxon.</i> (Spanish)	Gilmour Prof
Lamb, N. J., MA	(Portuguese & Spanish) Sr Lectr
de Lara, Maria V., LicenFil&Let <i>Madrid</i>	(Spanish) Lectr
Hall, H. B., MA	(Spanish) Lectr
Crespo, F. de D., LicenLet <i>Lubon</i>	(Portuguese) Lectr
Lomax, D. W., MA DPhil <i>Oxon</i>	(Spanish) Asst Lectr

Histology

Hancox, N. M., MD	Reader
Kruszynski, J., MD <i>Vilna</i>	Lectr
Beckett, Evelyn B., BSc PhD <i>Lond</i>	Lectr
Owen, J. J. T., BSc MB ChB	Lectr
Boothroyd, B., BSc PhD <i>Leeds</i>	Electron Microscopist

**History, Ancient, and Archaeology,
Classical**

Walbank, F. W., MA <i>Camb</i> , FBA	Rathbone Prof
Eames, J. V. H., MA <i>Oxon</i>	C. W. Jones Lectr
Marsden, E. W., MA PhD <i>Camb.</i>	Lectr
Burford, Alison, BA <i>Camb</i>	Asst Lectr

History, Ecclesiastical

Hennell, Rev M. M., MA <i>Oxon.</i>	Hon. Lectr.
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History, Mediaeval

Brooke, C. N. L., MA <i>Camb</i> , FRHistS	Prof.
Myers, A. R., MA PhD <i>Manc.</i> , FRHistS, FSA	Reader
Oschinsky, Dorothea, PhD <i>Lond</i> , DrPhil <i>Bres.</i>	(Palaog) Lectr.
Matthew, D. J. A., MA DPhil <i>Oxon</i>	(on leave) Lectr
Markus, R. A., BSc MA PhD	Lectr
Liebeschütz, H., MA <i>Lond</i> , PhD <i>Heidel</i>	Lectr
France, R. S., MA	†Sp. Lectr
Vaughan, J. C., LL.M.	†Sp. Lectr
Walne, P., MA <i>Camb</i> , FRHistS	†Sp. Lectr
Mayn-Harting, H. M. R. E., BA <i>Oxon</i>	Asst Lectr

History, Modern

Quinn, D. B., BA DLat <i>Belf</i> , PhD <i>Lond</i>	A. Geddes & J. Rankin Prof
Bell, P. M. H., BA BLitt <i>Oxon</i>	Lectr

2 H 2

Collins, Mrs Irene, MA BLitt *Oxon.*,

FRHistS	Lectr.
Rowe, W. J., MA DPhil <i>Oxon</i> , FRHistS	Lectr
Ryan, A. N., MA, FRHistS	Lectr
Shennan, J. H., BA	Asst. Lectr
Ives, E. W., BA PhD <i>Lond</i>	Asst. Lectr

Italian

Farthfull, R. G., BA <i>Lond.</i> , PhD	Lectr
Dawson, E., BA	Lectr
Calma, Mrs Anna, DrLett <i>Turn</i>	Tutor

Law

Seaborne Davies, D. R., MA <i>Camb</i> , LLB <i>Wales</i> (Common L.)	Prof.
Brown, D., MA <i>Oxon.</i>	Queen Victoria Prof.
Vaughan, J. C., LL.M.	Sr. Lectr.
Newton, J. D., LLB <i>Lond</i>	Sr. Lectr
Geddes, W., MA LL.M.	†Warr Memorial Lectr
Routledge, K. G., LL.B.	†Lectr, †Tutor
Taylor, A. J. E., LL.M.	†Lectr
Bulmer, D. L., BA LLB <i>Camb</i>	Lectr.
Lowe, W. A.	(Trust Accts. & Book-keeping)
Arthur, J. R., DFC, MA	†Sp. Lectr
Hamilton, R. G., MA <i>Oxon.</i>	†Lectr.

Marine Biology, etc., see p. 944

Mathematics, Applied

Rosenhead, L., CBE, DSc <i>Leeds</i> , PhD <i>Leeds</i> & <i>Camb</i> , FRS	Prof
Fletcher, A., MA PhD <i>Camb</i>	Reader
Plackett, R. L., MA <i>Camb</i>	(Mathl. Stats.) Reader
Young, A., BSc <i>St And</i> , PhD	(Numerical Analysis) Reader, Dir. of Computer Lab
Daymond, S. D., MA <i>Oxon</i> , BSc <i>Lond</i> & <i>Wales</i> , PhD	Sr Lectr
Jackson, T. A. S., MA PhD <i>Camb</i>	Lectr.
Baldock, G. R., BSc <i>Lond</i> , PhD	Lectr
Sewell, G. L., MA <i>Oxon.</i> , PhD <i>Lond</i>	(on leave) Lectr.
Williams, W. E., MSc PhD <i>Manc</i>	Lectr
Booth, F., MA <i>Camb</i>	Lectr.
Brenner, Sheila, MA <i>Camb.</i> , PhD <i>Birm</i>	Lectr
Kirk, A., BEng	(Numerical Analysis) Lectr
Tweedie, M. C. K., MSc <i>R'dg</i>	(Mathl. Stats.) Lectr
Rayner, C. B., BSc PhD <i>Lond</i>	Lectr
Lynn, N., BSc PhD <i>Belf</i>	Lectr
Watt, J. M., MA <i>Camb.</i>	(Numerical Analysis) Lectr.
Drake, D. G., BSc PhD <i>S'ton</i>	Lectr.
Green, J. R., BSc PhD	(Mathl. Stats) Lectr
Terrill, R. M., BSc PhD	Lectr.
van der Burg, M. G. J., BSc PhD <i>Lond</i>	Lectr
Shail, R., BSc PhD <i>Lond</i>	Lectr
Morgan, R. N., BSc	Asst Lectr
Bridgeman, T., BSc	Asst. Lectr

Kingston, A. E., BSc PhD *Belf* Aast. Lectr.
 Read, E. J. C., BSc PhD
 (Numerical Analysis) Res Asst
 7 Assts for marking

Mathematics, Pure

Walker, A. G., MA *Oxon*, DSc *Edn.*, FRS Prof.
 Willmore, T. J., DSc PhD *Lond.* Sr. Lectr.
 Flett, T. M., PhD ScD *Camb* Sr. Lectr.
 Mastland, Barbara J., MA PhD *Camb* Lectr.
 News, W. F., BSc PhD Lectr.
 Ledger, A. J., BSc PhD *Durh* Lectr.
 Butler, M. R. C., MA BSc PhD *Melb.* Lectr.
 Horrocks, G., MA PhD *Camb.* Lectr.
 Robertson, S. A., BSc PhD *St And.* Lectr.
 Rayner, F. J., MA DPhil *Oxon* Lectr.
 Brown, R., BA *Oxon* Lectr.
 Porteous, I. R., MA *Edn.*, PhD *Camb* Lectr.
 Schwarzenberger, R. L. E., BA *Camb* Lectr.
 (on leave) Lectr.
 Irwin, M. C., MA *Camb.* Lectr.
 Rutter, J. W., BA *Oxon* Lectr.
 Cruddis, J. B., BSc Res Asst

Medicine, see below

Music

Abraham, G. E. H., Hon. DMus *Durh.*, MA,
 FTCL James & Constance Alsop Prof

Oceanography

Bowden, K. F., DSc *Lond.*, FIP Prof.
 Riley, J. P., DSc PhD, FRIC Sr. Lectr.
 Fauburn, L. A., BSc Lectr.
 Hughes, P., BSc Lectr.

Parasitology and Entomology

Kershaw, W. E., VD, MD DSc *Man.*,
 DTM&H *Lond*
 Walter Myers & Everett Dutton Prof
 Edson, J. F. B., BSc *Lond.*, MD *Sheff*
 (Med Parasitol) Leverhulme Lectr.
 Macdonald, W. W., BSc *Glas.*
 (Appl. Biol.) Lectr.

Philology, see Engl. Lang., and Celtic

Philosophy

Lloyd, A. C., BA *Oxon.* Prof.
 Huby, Mrs Pamela M., MA *Oxon* Lectr.

Physics

Cassels, J. M., MA PhD *Camb.*, FRS
 Lyon Jones Prof.
 Frohlich, H., DrPhil *Munch.*, Hon. DSc *Remnes*,
 FRS (Theoret. P.) Prof
 Morrison, A. W., BSc *Lond.*, PhD
 (Exper. P.) Prof.
 Holt, J. R., BSc PhD Reader
 Collinge, B., BSc PhD Reader
 Moore, M. J., JP, MSc Sr. Lectr.
 Green, L. L., MA PhD *Camb* Sr. Lectr.

Huby, R., MA *Camb.*, PhD *Brist*
 (Theoret. P.) Sr. Lectr.
 Willmott, J. C., BSc PhD *Lond* Sr. Lectr.
 Farbrook, H. D., BSc PhD *Durh.*
 (Acoustics) Sr. Lectr.
 Evans, W. H., BSc PhD *Wales*
 (on leave) Sr. Lectr.
 Muirhead, W. R. H. F., BSc PhD *Brist*
 Sr. Lectr.
 Martin, D. G. E., BSc Lectr.
 Parry, G., BSc *Lond.*, PhD Lectr.
 Szageti, B., PhD *Zur* (Theoret. P.) Lectr.
 News, H. C., BSc PhD Lectr.
 Wormald, J. R., MA PhD *Camb* Lectr.
 Allcock, G. R., BSc PhD (Theoret. P.) Lectr.
 Frank, S. G. F., BSc *Lond.*, PhD *Camb* Lectr.
 Davies, M. G., BSc PhD *Leeds*
 (Acoustics) Lectr.
 Rickayzen, G., BSc PhD *Lond* Lectr.
 Edwards, D. N., BSc PhD Lectr.
 Tempest, W., BSc PhD (Acoustics) Lectr.
 Donald, R. A., BSc PhD *Edn.* Lectr.
 Mason, P., BSc PhD *Exe* Lectr.
 Chalmers, T. A., BSc PhD *Lond.*
 (Med. Radiol.) †Sp. Lectr.
 Andrews, P. T., MSc N Z Lectr.
 Dagley, P., MA DPhil *Oxon* Lectr.
 James, A. N., MA PhD *Camb.* Lectr.
 Olson, D. N., BS *Minn.*, PhD *Corn* Lectr.
 Woodhead, T., BSc Demr.

Physiology

Gregory, R. A., DSc PhD *Lond*
 George Holt Prof.
 Calma, I., MD *Mulan* (Exper. Phys) Sr. Lectr.
 Richards, T. G., MD PhD Sr. Lectr.
 Baker-Bates, E. T., MD, FRCP
 (Appl. Physiol.) †Lectr.
 Kidd, G. L., MSc PhD Lectr.
 Roberts, D. V., BSc MB ChB Lectr.
 Tracy, Hilda J., MB ChB Lectr.
 Neame, K. D., MB BS *Lond.*, PhD *Sheff.* Lectr.

Political Theory and Institutions

Harrison, W., MA *Glas.* & *Oxon* Prof.
 Wilson, N., MA DPhil
 (Pub. Admin.) Leverhulme Lectr.
 Rudley, F. F., BSc (Econ) PhD *Lond.* Lectr.
 Laslett, J. H. M., BA *Oxon* Asst Lectr.
 6 Sp. Lectrs † (for dipl. in pub. admin.),
 2 Tutors † (for dipl. in pub. admin.)

Psychology

Hearnshaw, L. S., MA *Oxon.* Prof.
 Crawford, Agnes, BA PhD *Lond.* Lectr.
 Bromley, D. B., BA *Man.* Lectr.
 Leytham, G. W. H., MA *Calif.* Lectr.
 Straker, D., MA *Camb* Lectr.
 Leveson, I., MD †Lectr.
 Heron, A., MSc *Man.*, PhD *Lond* Hon Lectr.
 Corina, L., BA *Oxon* Demr.

Russian

- Gorodetzky, Mrs Nadejda, BLitt MA
DPhil Oxon. Bowes Prof
Henry, P, MA Oxon Lectr
O'Toole, L. M., BA Oxon Lectr
Thomson, R O B., BA Oxon Lectr

Social Science

- Simey, T. S., MA Oxon Charles Booth Prof.
Scott, W. H., BA PhD (Indust Sociol) Reader
Chapman, D., BSc(Econ) Lond, PhD Sr Lectr
Silcock, H., MA DiplPA Lectr
Hall, M. Penelope, BA Lectr
Deed, Dorothy M., MA Camb
(Soc. Admin.) Lectr
Jehu, D., BA R'dg Lectr
Vereker, C. H., MA DPhil Oxon. Lectr
Fairmer, Mrs Mary E., BA Lectr
Carey, A. S., MB ChB DPH Leeds
(Admin of Mental Health Services)
Begg, T. L., MB ChB DPH
(Mental Health) †Lectr
Simpson, E. Joan, BA Durh Hon Lectr
Banks, J. A., MA Lond Sr Res Lectr
Mays, J. B., MA Sr Res. Lectr
Banks, Mrs Olive L., BA PhD Lond Res. Lectr
McGivering, I. C., MA Res Lectr
Gittus, Elizabeth, MA Res Worker
Rankin, N. H., BSc Lond Res. Worker
Hill, Jean L. M., BA(Econ) Brist
Jr. Res. Worker

Spanish, see Hispanic Studies**Veterinary Science**

- Wright, J. G., Hon. DSc Brist., MVSc, FRCVS
(Vet. Surg.) Prof
White, E. G., PhD DSc Lond., FRCVS
(Vet Prev. Med.) William Prescott Prof.
Hughes, D. L., DipBact Lond., FRCVS
(Vet. Pathol.) Prof.
King, A. S., BSc(VetSci) PhD Lond.
(Vet. Anat.) Prof
Davies, G. O., DVSc DVH (Vet. Pathol) Reader
Shuttleworth, A. C., MVSc, FRCVS
(Vet Surg.) Reader
King, J. O. L., BSc(Agric) R'dg, MVSc
PhD (Animal Husb) Reader
Buxton, A., PhD Camb, FRCVS
(Vet Bacteriol) Sr Lectr.
Jordan, F. T. W., BSc(VetSci) PhD Lond.
(Vet Prev Med) Sr Lectr.
Dransfield, J. W., MVSc (Vet Anat.) Sr Lectr.
Glover, T. D., BSc Edin, MA PhD Camb.
(Vet Anat.) Lectr
Barnes, M. McC., BSc Brist., PhD Birm.
(Vet. Biochem) Lectr.
Singleton, A. G., BVSc (Vet. Physiol.) Lectr
Allan, D. (Appl Vet Pathol.) Lectr.
Cornwell, R. L., MVSc (Vet Prev. Med.) Lectr.
Neal, P. A., BSc BVSc
(Vet Surg., Farm Animals) Lectr.

- Rutchie, H. E., BVSc
(Vet Med, Farm Animals) Lectr.
Arnall, L., BVSc
(Vet. Med., Small Animals) Lectr.
Ewbank, R., BVSc (Animal Husb) Lectr.
Thomlinson, J. R., BSc Edin
(Clin Vet Pathol) Lectr.
Clarkson, M. J., BSc MVSc
(Vet. Parasitol) Lectr
Knifton, A., BVSc BSc (Vet. Pharmacol.) Lectr.
Howell, J. M., BVSc (Vet. Pathol.) Lectr.
Batt, R. A. L., BVSc BSc (Vet Histol) Lectr
Forbes, L. S., BVSc Syd. (Vet. Parasitol) Lectr
Edwards, G. B., BVSc
(Med & Surg, Farm Animals) Demr.
Pickering, Mrs Christine M., BVSc
(Vet Pathol) Temp Demr

Zoology

- Pumphrey, R. J., MA ScD Camb, FRS
Derby Prof.
Smith, C. L., BSc PhD Reader
Jones, J. W., DSc PhD, FLS Sr. Lectr
Hynes, H. B. N., DSc PhD Lond ° Si Lectr
Fordham, Miss Mahalah G. C.,
MSc W Aust Lectr
Ball, J. N., BSc PhD Lectr.
Brinkhurst, R. O., BSc PhD Lond. Lectr.
Duncan, C. J., BSc PhD Lond. Lectr
Salzen, E. A., BSc PhD Edin. Lectr.
White, D. E., BSc PhD Durh Lectr
Pearson, R. G., BA PhD Camb Lectr
Chubb, J. C., BSc Asst Lectr.
Meredith, Mrs. Sheila C., PhD Leeds,
MSc †Temp Lectr

DENTISTRY**Dental Anaesthetics**

- Halton, J., MB ChB, FFARCS †Lectr.

Dental Prosthetics and Mechanics

- Storer, R., MSc, FDSRCS Lectr.
Newton, A. V., BDS Lectr.

**Dental Surgery, Dental Pathology,
Dental Bacteriology**

- Farmer, E. D., MA Camb, MDS, FDSRCS
(D. Surg.) Louis Cohen Prof.
Hartles, R. L., DSc PhD
(D Biochem) Sr Lectr.
Melville, T. H., BS(Agric) Leeds, DipBact
Manc (D. Bacteriol) Lectr.
Oliver, W. M., BDS St.And., FDSRCSed
(Parodontal Dis.) Lectr.
Burch, R. H., BDS Durh, FDSRCSed
(Prev. & Children's D.) Lectr.
Kerr, N. W., BDS (Parodontal Dis.) Lectr.
Goose, D. H., BSc Birm, MDS (Prev. D.) Lectr.
Leaver, A. G., BSc PhD Lectr.
† Demr † (D. Biochem)

Dental Surgery, Clinical

- Harrison, F. E., MBE †Lectr.

Neubert, E. W., LDS	†Lectr	Aldred, A. S., MSc <i>Leeds</i> , PhD (Electr Power E) Sr. Lectr.
Macphae, G. G., MA MD <i>Glas.</i> , FDSRCS	†Lectr.	Lynn, J. W., MSc PhD (Electr Power E.) Sr Lectr
Fairhurst, R., BDS MB ChB, FDSRCS	†Lectr	Durnford, J., BSc(Eng) <i>Lond</i> (Electronic E.) Lectr
Guyler, T. W. C., BDS	†Lectr	Jones, C. V., BSc <i>Lond.</i> , MEng PhD (Electr. Power E.) Lectr.
Drake, A. F., BDS		Whittaker, D., BEng PhD (Electr Power E.) Lectr
Hon. Curator of Museum, †Lectr		Parker, A. B., BSc PhD <i>Wales</i> (Electronic E) Lectr
Blamire, A., MBE, LDS	†Asst. Lectr	Prasad, A. N., BEng <i>Madr</i> , PhD (Electronic E) Lectr.
Burston, W. R., PhD <i>Camb.</i> , LDS	†Asst Lectr.	Harrison, J. A., BSc PhD (Electr. Power E) Lectr

Dental Surgery, Operative

Lawton, F. E., DDS <i>Northwestern</i> , BDS, FDSRCS	Prof, Dir of Dent Educn	Lennon, J. J., BSc <i>N U I.</i> (Electronic E.) Lectr.
Mumford, J. M., MS <i>Mich</i> , MSc, FDSRCS	Si. Lectr	Carter, G., BSc <i>Lond.</i> , PhD (Electronic E.) Lectr.
Pearson, S. L., BDS, FDSRCS	Lectr	Hearne, K. R., BSc PhD (Electr. Power E.) Lectr.
Ferguson, H. W., LDS <i>St And.</i> , MSc, FDSRCS	Lectr	Barrault, M. R., BEng (Electronic E) Asst. Lectr

Odontology

Guyler, T. W. C., BDS	†Lectr.
Latham, R. A., BSc BDS <i>Belf.</i>	Lectr

Orthodontics

Wynne, T. M. H., BDS	Lectr
Knowles, C. C., MDS	Lectr

Radiology

Bird, P. D., LDS	†Lectr
------------------	--------

ENGINEERING**Building Science**

Hendry, A. W., BScEng PhD DSc <i>Aberd.</i>	Prof.
Brinch, A. L., BScTech BA <i>Manc</i>	Lectr
Benson, A. C., BSc PhD <i>Manc</i>	Lectr
Whitehead, B., BA <i>Sheff</i>	Lectr
Wilson, C. B., BSc PhD	Lectr

Civil Engineering

Owen, J. B. B., DSc, FRAeS	John Wilham Hughes Prof
Whittington, R. B., MSc <i>Manc</i> , PhD	Reader
Bolton, A., MScTech PhD <i>Manc.</i>	Sr Lectr.
Nesbitt, H. G., MEng	Lectr
Waters, H., MEng	Lectr
Reed, C. D., MEng	Lectr.
Proudlove, J. A., MEng	Lectr.
Barden, L., MSc <i>Durh.</i>	Lectr
Hallwell, A. R., BEng	Lectr.
Ashworth, R., BEng	Lectr.
King, G. J. W., BSc(Eng) <i>Lond.</i>	Lectr

Electrical Engineering

Meek, J. M., DEng, FIP, MIEE	(Electr. Power E.) David Jardine Prof
Craggs, J. D., MSc PhD <i>Lond.</i> , FIP	(Electronic E.) Robert Rankin Prof.
Edels, H., BScTech <i>Manc</i> , PhD	(Electr. Power E.) Reader
Leck, J. H., MEng PhD	(Electronic E) Reader

Engineering Contracts and Specifications

Gordon, C. G. S., TD, JP, LLB	†Lectr.
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Mechanical Engineering

Horlock, J. H., MA PhD <i>Camb</i>	Harrison Prof
Preston, J. H., MA <i>Camb.</i> , BSc PhD <i>Lond.</i> , FRAeS	(Fluid Mech) Prof
Benson, R. S., MSc(Eng) <i>Lond</i> , PhD	Reader
Cole, E. B., MSc <i>Brist.</i> , MIMechE	Sr Lectr
Calvert, N. G., BEng PhD (Fluid Mech)	Sr. Lectr.
Norbury, J. F., MEng PhD (Fluid Mech)	Sr Lectr
Halling, J., BSc(Eng) <i>Lond.</i>	Sr. Lectr
Barrow, H., MEng	Lectr
Ryley, D. J., MSc(Eng) <i>Lond.</i> , PhD	Lectr.
Shaw, R., BEng	Lectr
Gibbings, J. C., BSc(Eng) PhD <i>Lond</i> (Fluid Mech)	Lectr.
Mellor, P. B., BEng PhD <i>Sheff</i>	Lectr.
Sutchffe, W. J., BScTech <i>Manc</i>	Lectr
Ball, K., BEng	Lectr
Dixon, S. L., BEng	Lectr
McChesney, M., BSc <i>Glas.</i> , PhD	Lectr.
Woods, W. A., BEng PhD	Lectr.
Bishop, G. B., MEng	Lectr.
Doyle, M. D. C., BEng	Lectr
Walker, C. P., BEng	Demr

Metallurgy

Owen, W. S., MEng PhD, FIM	Henry Bell Wortley Prof.
Kennett, S. J., BSc PhD <i>Lond</i> , FIM	Sr. Lectr.
Hull, D., BSc PhD <i>Wales</i>	Sr Lectr.
Bodsworth, C., MMet PhD <i>Sheff.</i>	Lectr.
Burke, J., BEng PhD	Lectr
Stringer, J., BEng PhD	Lectr.
Appleton, A. S., BEng PhD	Lectr
Ellis, T., BEng PhD	Asst Lectr

MEDICINE

(for subjects of first 2 yrs.—Anat., etc., see above)

Anæsthesia

- Gray, T C, MD, FFARCS Prof.
 Rees, G J, MB ChB, FFARCS (Pædiatric A.) Hon Lectr
 Geddes, I C, MD *St And*, FFARCS Sr Lectr
 Utting, J E, MA MB BChir *Camb*, FFARCS Lectr
 Riding, J E, MD, FFARCS †Demr

Bacteriology

- Downie, A W., MD DSc Hon LLD *Aberd.*, FRS Prof
 Robinson, D. T., MSc DiplBact *Mane.* Assoc Prof
 McCarthy, K, MD Sr Lectr
 Dumbell, K R, MD Sr Lectr
 Caunt, Anne E, BSc *R'dg.*, DiplBact *Mane.* Lectr.
 Rondle, C J M, MA *Camb*, PhD *Lond* (Chem. Microbiol.) Lectr
 Bedson, H S, MB BS *Lond.*, MRCP Lectr.

Chemical Pathology

- Taylor, W H, MA DM *Oxon*, MRCP †Dir of Studies

Child Health

- Hay, J D, MA *Camb*, MD, FRCP Prof.
 Todd, R M., MA MD *Camb*, MRCP Sr. Lectr.
 Brookfield, R. W., PhD MD DPH, FRCP †Lectr & †First Asst
 Smithells, R. W., MB BS *Lond*, MRCP Lectr
 Jones, R S, MD, MRCP Lectr
 Derham, R. L. J. S., MB ChB *Brist.*, DPH †Second Asst.

Clinical Pædiatrics

- Brookfield, R. W., PhD MD DPH, FRCP †Lectr
 Farquhar, H G, BA BM BCh *Oxon*, MRCP †Asst Lectr.
 Keidan, S E, MB ChB, MRCP †Asst Lectr
 Scott, Mrs Olive, MD DPA *Sheff.*, DCH *Lond*, MRCP †Asst. Lectr
 Stark, Vida J M., MD DPH *Glas* (Clin. Prev. P.) †Hon. Lectr
 Robertson, G. S., MD *Tor* (Clin. Prev. P.) †Hon. Lectr.

Dermatology

- Bamber, G. W., BA MD *Camb*, FRCP †Lectr -in-Charge

Diseases, Infectious

- Christie, A B, MA MD *Aberd.*, DPH *Lond* †Lectr.

Forensic Medicine and Toxicology

- St. Hill, C. A., MB ChB *Brist.* †Lectr.-in-Charge

Materia Medica, Pharmacy, Pharmacology and General Therapeutics

- Wilson, A., MD PhD, FRFPGlas Prof.
 Wilson, H., MD PhD Sr. Lectr
 Brookfield, R. W., PhD MD DPH, FRCP (Therap.) †Lectr
 Roberts, J B, MB ChB Lectr
 Wilson, C. W. M., BSc MD PhD *Edin* Lectr.
 Fairhurst, R., BDS MB ChB, FDSRCS (Therap. to Dental Students) †Lectr.
 Nowell, P T., BSc PhD (Chem. Pharmacol.) Lectr
 Somers, G F., BSc PhD *Lond*. (Exper Pharmacol.) †Lectr.
 † Demr. † in Pharmacol

Medicine

- Cohen of Birkenhead, Rt Hon. Lord., JP, Hon DSc *NUI & Nott*, Hon. LLD
Wales & Lsw, MD, FRCP, FRCPi, FACP, FDSRCS, FRIC, FFR, FBP's, FSA Prof Reader
 Clarke, C A., MA MD *Camb*, FRCE
 Chamberlain, E. N., MSc MD, FRCP †Sr Lectr & (Clin M) †Lectr
 Evans, D A P, MSc MD, MRCP Lectr
 Woodrow, J C, MB ChB *Leeds*, MRCP Lectr
 Houston, J, MB ChB DPH *Glas*. (Clin. TB) †Lectr.
 Baker-Bates, E. T., MD, FRCP †Lectr & (Clin M) †Lectr
 Jones, E W., MD DPH, FRCP †Lectr in Med to Dental Students & (Clin M) †Lectr
 Sanderson, G., MD, MRCP †Lectr. & (Clin. M) †Asst. Lectr
 †Lecturers (Clin. M)
 Ellis, G R, MA MD *Camb*, FRCP
 Brookfield, R. W., PhD MD DPH, FRCP
 Evans, R. M., MA MB BChir *Camb.*, MB ChB, MRCP
 Jones, A T, MD DPH, FRCP †Assistant Lecturers (Clin M)
 Hughes, R R., MD, MRCP
 Cook, W H R, MD, MRCP
 Robertson, A J, MD, MRCP
 McConnell, R B, MD, MRCP
 Ogilvie, C M., MD, MRCP
 Sutton, W S., MB ChB, FRCP Also †Lectr. to Dental Students

Obstetrics and Gynæcology

- Jeffcoate, T N A, MD, FRCSEd, FRCOG Prof.
 Francis, H. H., BSc MB ChB *N.Z.*, FRCSEd, FRCS, FRCOG Sr. Lectr.
 Francis, Miss Winifred J A., MD Lectr.
 Miller, J M., MB BS *Adel* (Obstet.) Lectr.
 Forteous, C R., MB ChB (Obstet.) Lectr
 Wilson, J K, MD †Lectr
 †Lecturers (Clin Obstet. & Gynæcol.)
 Hamilton, C. J. K., MA MB BChir *Camb.*, FRCSEd, FRCOG

Malpas, P, ChM, FRCS, FRCOG
 Datnow, M. M., MD, FRCSed, FRCOG
 Herd, S. B., MD, FRCOG
 Walsh, C. H., MB ChB DPH, FRCOG
 †Assistant Lecturers (Clin Obstet &
 Gynaecol)

Mayeur, Mary H., MD Lond., FRCS, FRCOG
 Barr, S. J., MB BCh BAO Belf., FRCSed

Pryor-Jones, D., MB ChB (Obstet.)
 de Boer, C. H., MA MB BChir Camb., FRCS (Obstet.)
 †Demonstrator
 Woodcock, A. S., MD Leeds

Ophthalmology

McCann, J. A., FRFPGlas †Lectr -in-Charge

Oto-rhino-laryngology

Tumarkin, I. A., MB ChB, FRCSEd
 †Lectr -in-Charge
 Pracy, R., MB BS Lond., FRCS †Asst Dir
 Grant, J. H., MB BS Durh. Lectr.

Pædiatric Surgery

Forshall, Isabella, MB BS Lond., FRCSEd, FRCS †Lectr.
 Rickham, P. P., MS DCH Lond., FRCS †Asst Lectr

Pathology

Sheehan, H. L., TD, MD DSc Manc., FRCP, FRCOG George Holt Prof
 Cruickshank, A. H., MD Aberd., PhD Sr Lectr.
 Davis, J. C., MD (Endocrine P.) Sr. Lectr.
 Watt, J., MD Aberd Lectr
 Jones, C. H., MD Lectr
 Carroll, R., MB BCh N.U.I., DCP Lond., MRCPI Lectr.
 Cheetham, H. D., BSc MD (Endocrine P.) Lectr
 Wade, A. P., PhD Lond., BSc (Endocrine Biochem) Lectr.
 Kennedy, A., MB ChB Lectr
 Kilburn, P., MB ChB MChOrth, FRCSEd (P of Orthop Conditions) †Lectr.
 Hipkin, L. J., MB ChB Widnes Cancer Res Asst
 Summers, V. K., MD, MRCP (Endocrine P) †Res. Asst.

Plastic and Maxillo-Facial Surgery

Hallam, J. W., FDSRCS
 †Clin. Lectr to Dental Students
 Osborne, R. P., BSc MB ChB Manc, FRCS (Plastic Surg) †Hon. Lectr

Psychological Medicine

Hall, S. B., MD DPM †Dir of Studies
 Jarvie, H. F., MD BSc DPH Glas, BSc Oxon, DPM Manc †Lectr
 Leveson, I., MD (Psychiatry) †Lectr.
 Pinkerton, P., MD Edm., DPM Lond (Child Psychiatry) †Lectr.

Hetherington, R. R., BSc PhD Lond. (Clin Psychol) †Lectr.
 Simpson, E. Joan, BA Durh (Psychiatric Social Studies) Lectr.
 Miller, D. H., MB ChB Leeds Lectr
 Spelman, M. S., MB ChB Birm Res Asst

Public Health

Semple, A. B., VD, MD DPH Glas Prof
 Schwarz, K., MB BCh DPH Rand, MRCP Lectr
 Davies, J. B. M., MD Lond., DPH Brist †Lectr.
 Stark, Vida J. M., MD DPH Glas. †Lectr.

Radiodiagnosis

Whitaker, P. H., MD DMRE, FFR †Lectr
 Scarrow, G. D., MD MRad DMRD †Asst Lectr
 †Honorary Assistant Lecturers
 Ross, J. A., MA Camb., DMRE, MRCP
 Rubin, E. L., MD DMRE, FFR
 Walker, Norah M., MB ChB Manc., DMRE
 †Hon. Res Asst.†, †Res Asst.†

Radiotherapy

Fulton, J. S., CBE, TD, MD Edm., FRCPEd, FFR †Lectr.
 Fraser, D. M., CIE, MB ChB Glas., DMRE Camb., MRCP †Hon. Asst. Lectr
 Stewart, M. A., MB ChB N.Z., DMR Lond., MRCPEd †Hon. Asst. Lectr.
 Milln, Marjorie S., MD St And. †Hon Asst Lectr.

Surgery

Wells, C., Hon LLD Pan., MB ChB, FRCS Prof
 McFarland, B. L., MD MChOrth, FRCS, FRCSEd (Orthop S) Prof, Dir., Orthop Studies
 MacPhee, I. W., MD Glas., MSc, FRCS, FRCSEd Sr. Lectr & First Asst.
 Brearley, R., ChM, FRCS †Lectr.
 Tinckler, L. F., ChM, FRCS Lectr
 Kerr, A. S., MB ChB, FRCS †Lectr.
 Oldham, J. B., VD, MB ChB, FRCS †Lectr, †Clin. Lectr
 Ross, J. C., ChM, FRCS †Lectr, †Clin Lectr
 Lehan, D., MB BCh BAO N.U.I. (Hematol.) Hon. Lectr.
 Edwards, F. R., MD ChM, FRCS (Thoracic S.) †Lectr -in-Charge
 Hughes, J. H., MD ChM, FRCS †Lectr, †Clin Lectr
 Doyle, R. W., MB ChB, FRCS (Clin S) †Asst. Lectr.
 Dwyer, F. C., MB ChB Cape T., MChOrth, FRCS (Clin Orthop S) †Lectr.
 Hunter, W. R., ChM, FRCS (Clin S) †Asst. Lectr
 Roaf, R., MA BM BCh Oxon., MChOrth, FRCS, FRCSEd (Orthop S.) †Lectr.
 O'Malley, A. G., MB ChB MChOrth, FRCSEd (Orthop. S.) †Lectr, †Asst. Clin Lectr.

Wardle, E N., MB ChB MChOrth, FRCS
(Orthop S) †Hon Lectr., †Clin Lectr
Roberts, N W, MB BS *Lond*, MChOrth, FRCS
(Orthop S) †Hon Lectr., †Clin Lectr
Hawe, P R, TD, ChM, FRCS (Clin S.) †Lectr.
Unsworth, S V, MB ChB, FRCS, FRCSEd
(Clin S.) †Lectr
Beattie, W M, MA MChir *Camb*, FRCS
(Clin S.) †Asst. Lectr.
Thomas, G E, MB BS *Lond*, MB ChB MChOrth, FRCSEd
(Orthop S) †Hon. Lectr. & †Clin Lectr
Osborne, G V., MB ChB MChOrth, FRCSEd
(Orthop S) †Lectr & †Asst Clin Lectr.
Bennett-Jones, M. J., ChM, FRCS
(Clin S.) †Asst. Lectr
Brewer, A C, MB ChB, FRCS
(Clin S) †Lectr & †Lectr in S to Dental Students
Evans, F I, MBE, MC, MA MB BChir *Camb*, FRCS (Clin S) †Asst Lectr
Moroney, P B, VD, MB ChB MChOrth, FRCS (Clin. Orthop S) †Asst Lectr
Almond, H G A, MB ChB MChOrth, FRCSEd (Clin Orthop S) †Asst Lectr
Annis, D., MD ChM, FRCS
(Clin S) †Asst Lectr. & †Lectr to Dental Students
Helsby, C R, ChM, FRCS
†Res Asst & †Asst Clin Lectr
Wainwright, D, MB ChB MChOrth, FRCSEd (Clin Orthop S) †Sp Lectr
Garden, R S, MB ChB *Aberd*, MChOrth, FRCSEd (Clin Orthop S) †Sp Lectr
†Honorary Assistant Lecturers (Thoracic S)
Temple, L. J., MB BS *Lond*, FRCS
Bickford, B J, MB BS *Lond*, FRCS
Waddington, J K. B, MB ChB, FRCSEd

Tropical Hygiene

Middlemass Hunt Prof
Wilson, T., CBE, MD DPH *Belf*, DTM DTH Sr Lectr

Tropical Medicine

Maegraith, B G, MB BS *Adel*, BSc DPhil MA *Oxon*, FRCP, FRCPEd
Alfred Jones & Warrington Yorke Prof.
Adams, A R D, MD DTM, FRCP †Sr. Lectr
Leithhead, C S., MB ChB *St And*, DTM&H Lectr.
Seaton, D. R., MA MB BChir *Camb*, MRCP †Asst Clin. Lectr

Venereology

Prebble, E E, MD †Lectr -in-Charge

†CLINICAL TEACHERS IN SPECIAL DEPARTMENTS

Anæsthesia

Dovey, Ruth, MB ChB

Gibbons, Mrs. Hilda M. Garry, MB ChB, FFARCS
Hargadon, J J, MB ChB, FFARCS
Hargreaves, J B, FFARCS
Hopper, G R, FFARCS
Hughes, G, MD, FFARCS
McLoughlin, G, MD DPH, FFARCS
Murray, T. P., FFARCS
Lewis, I, FFARCS
Oldham, Kathleen L, FFARCS
Stead, A L, MD *St And*, FFARCS
Thomas, J P, MB ChB, FFARCS

Child Health

Hudson, F P., FRCPEd
McCandless, Anne E, MD, MRCP

Dermatology

Freshwater, D G, BA MB BChir *Camb*, MRCP
Hay, Netta, MD

Medicine

McKendrick, C S, MA MD *Camb*, MRCP

Ophthalmology

Barton, Dorothy, MB ChB
Brodrick, J M
Hamilton, W D, MB BCh BAO *Belf*
Cook, E H L., MB ChB, FRCS
Moorhouse, J. H., MB ChB

Oto-rhino-laryngology

Abercromby, Barbara M L., MB BS *Lond*
McFarland, J C, MD DPH, FRCSEd
Martin, R J, MB ChB

Pathology

Black, T., MB ChB *Edn*, MRCPED
Elwood, J S, MD *Belf*, DCP *Lond*
Evans, R W, TD, BSc *Lond*
Hall, E G., BSc MB ChB *Manc*
Rewell, R E, MD *Lond*, MRCP
St Hill, C A, MB ChB *Brist*
Smith, J L S., MD *Camb*
Stanley, D. A, BSc MD *Lond*, FRIC
Whitwell, F, MD *Lond*
Buxton, P H, MA MD *Camb*, MRCP

Psychological Medicine

Egan, G P, MD *NU I*, DPM *Lond*.
Finkleman, B, MSc MD *Manc*
Gray, W J, MB ChB *Glas*
MacKenzie, N. F., MB ChB DipPsych *Edn*.
Neville, J G, MB BS *Lond*

Venereology

Alegant, C D, MD
Egerton, A S W.
Fluker, J L, MA *Camb*., MD *Lond*.
Lanceley, F, MD
Rees, Elizabeth, MD

MARINE BIOLOGICAL STATION

(Isle of Man)

Colman, J S, MA *Oxon.* Dir
 Jones, N S., MSc PhD Sr Lectr
 Williamson, D I, BSc PhD *Durh* Lectr
 Bowers, A B, BSc Lectr
 Slinn, D J, BSc *Belf* Lectr
 Kain, Joanna M., BSc PhD *Lond.* Lectr
 Russell, G, BSc PhD *St And*, FLS Asst Lectr.

TIDAL INSTITUTE AND OBSERVATORY

(Birkenhead)

Rosser, J. R. DSc *Lond.* Dir
 Lennon, G W, MA *Camb* Tech & Res. Asst
 Murray, M T, BSc Asst Lectr

INSTITUTE OF EDUCATION

Tempest, N. R., EdM *Harv*, MA
 William Roscoe Prof of Educn., Dir
 Carsley, J D, MA *Camb.* Lectr.
 Vidor, Martha M., PhD *Leip.*
 (Educnl. Psychol) Lectr
 Bradburn, Elizabeth, MEd *Mane* Lectr
 Pritchard, D. G., BA *Wales* Lectr
 Peters, A J., MA *Camb* Lectr
 Finlayson, D. S., BEd MA *Edin.*
 (Educnl. Psychol) Lectr.

Argles, O. M V., MA *Camb.* Tutor Librarian
 Wynne, T E, BSc(Econ) *Lond* Lectr
 Ellison, H C †Asst
 Finlayson, Dorothea †Asst

EXTRA-MURAL STUDIES

Kelly, T, MA *Mane*, PhD, FRHistS Dir
 Burr, J, MA Dep Dir.
 Bland, D S, MA *Camb.* Asst Dir
 Bagley, J J, MA, FRHistS
 (Hist) Sr Staff Tutor

Staff Tutors
 Husain, B. M. C., MA BCom (Geog)
 Wright, R. R., MA *Durh* & *Camb*, PhD
 (Engl. Lit.)
 Jones, A., BA (Librarian)
 Barford, P T., BMus MA *Leeds* (Music)
 Lockett, W. E. A. (Hist & Appreciation of Art)
 May, Edith F., BA *Mane*, PhD *Birm* (Psychol)

Senior Research Fellow

Lowe, J, BA PhD

Resident Staff Tutors

Hill, N V L, MA PhD *Birm* (West Cheshire)
 Clapp, R. T A (N Lances)
 Pashley, B. W., BA *Leeds* Res. Worker

ADMINISTRATIVE AND OTHER STAFF

UNIV ADMINISTRATION Academic Sec
 A. M. Currie, BA *Wales*, BLitt *Oxon* Asst.
 Registrar & Esquire Bedell P L Kemp, BA
Birm Asst Registrar. W R. G Lewis, BA
Wales Admin Asst. K Horner, BSc PhD
Durh Finance Officer W Glynn Williams,
 FCA Dep Finance Officer. B. C Cranwell
 Estate & Planning Officer: J. F. Cory Dixon,
 TD Asst Estate Officer G H Marshall, BSc
 (EstMan) *Lond.* Asst Planning Officer P R
 Smith Engin & Maintenance Officer E W
 Ratcliffe, MEng, MICE. Supt of Univ Bldgs
 A. T. Westrope Sub-Dean, Fac. of Sci.: V J
 Occleshaw, MSc PhD, FRIC Chief Clerk,
 Academic Dept. S Maddock, MA DiplPA
 Chief Clerk, Admin. Dept. E McKie Sec to
 Vice-Chancellor: Beatrice F. Kay

APPOINTMENTS BOARD Sec. S. R Whipple,

DFC, BA *Oxon* Asst Secs. N W Mowat,
 BSc *Glas*; W D Cross, MA *Camb*

PHYSICAL EDUCATION Lectrs R. E Dunn,
 BSc *Lond*, Annie Peock

CHIEF MEDICAL OFFICER G Sanderson, MD,
 MRCP

STUDENT WELFARE OFFICER Mrs Vera Giant.

WARDENS OF HALLS OF RESIDENCE (Men)
 Prof D R Seaborne Davies, MA *Camb*, LLB
Wales (Derby Hall); D A Coult, MSc *Lond.*
 (Rathbone Hall) (Women) Emma A H
 Clifford, MA R'dg, PhD *Brist* (University Hall),
 Elizabeth M Leese, JP, BA *Brist* (Dale Hall),
 Joyce Bazire, MA *Leeds* (Rankin Hall)

DEPUTY LIBRARIAN T S Broadhurst, MA
Oxon

ASSOCIATED OR AFFILIATED INSTITUTIONS

CITY OF LIVERPOOL COLLEGE OF TECHNOLOGY,
 Byrom St, Liverpool, 3 (tel North 0558)
 Principal—S A. J Parsons, BSc(Econ) *Lond.*,
 MIMechE

ST AIDAN'S COLLEGE, Howbeck Rd., Birken-
 head, Cheshire (tel. Cloughton 1247) (C of E)
 Principal—The Rev M M Hennell, MA *Oxon*.

SCHOOL OF TROPICAL MEDICINE, Pembroke

Place, Liverpool, 3 (telegrams and cables.
 Malaria, Liverpool; tel: Royal 7611) Wards
 for trop. dis at Liverpool Royal Infirmary and
 Sefton General Hosp For trg. in res. and organiza-
 tion of prophylactic measures Has sent
 numerous expeditions to trop countries Pub-
 lishes *Annals* For staff, see above—Trop Med,
 Trop Hygiene, Parasitol & Entomol. DTM&H,
 3 mos' course

GENERAL INFORMATION

Univ Coll, Liverpool, founded by royal charter 1881, was admitted into the Victoria Univ, Manchester, in 1884. In 1903 the Univ. of Liverpool was established by royal charter and the coll. was absorbed in it. Expansion was rapid, both in bldgs and in numbers of students. To the older degrees in arts, sci, med and law, degrees in archit., dent. surg. and engin. were soon added. A sch. of vet med was established in 1904, affiliated to the Royal Coll of Vet Surgeons, and in 1914 degrees in vet sci. were established. Devel. was halted by the outbreak of the first world war, towards the prosecution of which the univ. made notable contributions in the fields of sci. and med. Between 1918 and 1939 the numbers of students and staff increased steadily, and despite financial stringency, devel. included the bldg. of a geol. lab., an animal hosp., the extension to the students' union, a new lib. and a hall of residence for men students. From 1945 to the present day the univ. has been engaged in an unprecedented expansion, and in addn. to other bldgs, new chem. labs., a new med. sch., phys. bldg., civil engin. and bldg. sci. labs. and 2 halls of residence (one for men and the other for women) have been erected.

CONSTITUTION The supreme governing body of the univ. is the court which, subject to the charter, statutes and legislation, has absolute power within the univ. It consists of the members of the council and senate, reps. of local authorities, profess. bodies, schools, colls. and convocation, and of certain officials *ex officio*. It meets annually to consider the report of the council and of the univ., and to approve the accounts and alterations to ordinances.

The council is the executive body of the univ. and consists of the officers of the univ. and reps. of the court, city council, senate, facs and convocation; it administers the whole revenue and property and conducts all affairs of the univ., and, on nomination of the facs and senate, appts. profs. and members of the teaching staff.

The senate is responsible to the council for the general regulation of discipline, instruct., res. and exams. within the univ. and for recommendations for degrees, dipls., certs., scholps. and prizes.

Each of the facs of the univ. is responsible to the senate for courses of study and regns. as to awards, and, in general, the various business transactions falling within each fac's province.

INCOME (yr. ended July 31, 1959). Total income, £1,941,101 (Treasury grants, 60.8 per cent., other govt. depts., 4.5 per cent., local authorities, 2.6 per cent., endowments, 8.5 per cent., fees, 11.6 per cent., other sources, 3 per cent.).

FACULTIES AND DEANS (session 1960-61). *Arts*, Prof. K. Muir (Engl. lit.), *engin.*, Prof. J. M. Meek (electr. power engin.); *law*, Prof. D. R. Seaborne Davies, *med.*, J. M. Leggate, *sci.*,

Prof. K. F. Bowden (oceanog.) (full-time sub-dean), Dr. V. J. Oocleshaw, *vet. sci.*, Prof. J. G. Wright (vet. surg.).

UNIVERSITY PRECINCT The univ. occupies an area of some 80 acres lying between Pembroke Place and Myrtle St., and the admin. centre is in the Victoria Bldg., Brownlow Hill, within about a mile of the city centre. A long-term bldg. programme is being undertaken, and bldgs. which have been completed and occupied include nuclear phys., civic design, inorg. & phys. chem., med. sch., univ. press, dent. sch. extn., civil engin. & bldg. sci., phys., maths & oceanog., and vet. anat. & pathol. In course of construction are bldgs. for org. chem., arts lecture theatre block, and students' union extn.

LIBRARY About 470,000 vols. Most important collections received by gift or bequest. Thomas Glazebrook Rylands (1900), rich in early geog., astron., maths and British local hist.; William Noble (1912), containing most of the finely printed books published in England since about 1880; R. A. Scott Macfie (1935), entirely devoted to the gypsies. The library possesses a small but fairly representative collection of mediev. MSS., including an important text of *Piers Plowman*, and about 250 incunabula. In addition to the Harold Cohen library, opened in 1938, there are numerous external libraries administered by the univ. librarian.

LABORATORIES, ETC. Equipment for advanced study and res. in all depts. There is a marine biol. stn. (for Staff, see p. 944) at Port Erin, Isle of Man, univ. bot. gdns. at Ness, Wirral, a vet. field stn. at Neston, Wirral, and a tidal inst. and observatory (for Staff, see p. 944) (The Observatory, Bidston, Birkenhead, Cheshire, tel. Cloughton 54555).

HOSPITALS affiliated for purpose of clin. or practical work required for degrees and dipls. in fac. of med.: Liv. Royal Inf., David Lewis Northern H., R. Southern H., Liv. Stanley H., R. Liv. Children's H., Women's H., Liv. Maternity H., Liv. Ear, Nose and Throat Inf., St. Paul's Eye H., Liv. Dent. H., Antree H., Alder Hey Children's H., Broadgreen H., Newsham Gen. H., Birkenhead Gen. H., Clatterbridge H., Chester (Deva) H., Denbigh (Mental) H., Robert Jones & Agnes Hunt Orthoped. (Oswestry) H., Liv. Psychiatric Clinic, Fazakerley H., Mill Rd. Maternity H., Sefton Gen. H., Walton H., Winwick (Mental) H., Rainhill H., Whiston County H., Seamen's Disp., Radium Inst., Liv. Chest H.

INSTITUTE OF EDUCATION (see also 'Teaching Staff', above). Promotes the educn. and trg. of teachers, co-ordinates local trg. facilities, conducts professional exams, and arranges further study courses for practising teachers (incl. courses for

dipl. in educn. and cert. in the teaching of handicapped children) *Constituent members* univ dept. of educn., Alsager Trg Coll, Cheshire, F. L. Calder Trg Coll of Dom Sci, Cheshire County Trg. Coll, Crewe, Chester Coll., Edge Hill Trg. Coll.; Liverpool Coll. of Art, I. M. Marsh Coll of Phys Educn.; C. F. Mott Trg. Coll.; Mount Pleasant Trg Coll.; S. Katharine's Trg. Coll.

ADMISSION See Appendix III

FIRST DEGREES All degrees may be conferred with *hons* BA is conferred in general studies, in spec. studies, or in combined spec studies BA (gen studies), 3 yrs.; BA (spec studies), 3 or 4 yrs., in classics, oriental studies, French, Italian, Hispanic studies, German, Celtic studies, Russian, Engl lang and lit, hist, geog, econ, soc sci, philos, pol theory & instns, psychol, BA (combined spec studies), 4 yrs., in Gk & Egyptian, Gk & Hebrew, Gk & philos, French & German, French & Hispanic studies, French & Italian, French & Russian, German & Russian, Engl lang and lit & Italian, Engl lang and lit & philos, econ & geog, econ & maths, econ & philos, geog & maths, maths & philos, Engl lang & philos For BA (gen), *hons* awarded on result of final exam For BA (spec studies) and BA (combined spec studies), *hons* obtd on result of pt I & pt II exam, candidates not reaching this level may be awarded pass degree

BCom, 3 yrs (alternative curricula. (a) for ordinary student in comm, (b) for those who wish to enter the accty profession). BArch, 5 yrs., *hons* obtd on result of 4th and final exams. BSc, 3 yrs., 4th yr for *hons* in gen sci or in 1 of the following maths, mathl phys, mathl stats, phys, chem, zool, bot., geol, oceanog, geog, physiol, biochem, bacteriol., anat, metall, pharmacol. Unsuccessful candidates for *hons* may be awarded ordinary degree. MB ChB, 6 yrs., *hons* obtd on result of final exam BDS, 5 yrs. 1 term, *hons* obtd on results in 2nd, 3rd, 4th and final exams BVSc, 5 yrs., *hons* obtd on result of the 2nd, 3rd and final exams LLB, 3 yrs., *hons* students offer a addnl sp subjects over 2nd and 3rd yrs., candidates not reaching *hons* level at final exam may be awarded pass degree BEng (mech, marine, electr power, electronic, civil, metallurgy, bldg sci.), 4 yrs., *hons* students offer addnl. subs. in final yr., candidates not reaching *hons* level at final exam. may be awarded pass degree

HIGHER DEGREES PhD—grads of this or other approved univ, not less than 2 yrs' full-time res., thesis and oral exam, non-grads (under certain conditions), 3 yrs LittD—on publ contributions to learning, after report, upon MAs of the univ after 7 yrs from date of admission to degree of BA MA—grads of this or other approved univ, approved course of higher study or res. for at least 2 yrs., non-grads. (under certain conditions), 3 yrs; thesis, oral exam. and written exam if required MCD—study for at least 1 further session after BArch,

otherwise a 2-yr course, studio work and exam MArch—*hons* grads in archit of this or an approved univ, 1 yr's higher study or res, grads in archit without *hons*, 2 yrs' higher study or res., suitably qualified non-grads may be admitted to course 3 yrs after gaining a professional qualif Thesis, oral & written exam (if required) MCom—2 yrs' higher study or res after BCom or BComSc of the univ, thesis with or without exam Other grads eligible under certain conditions MEd—grads of this or approved univ holding dipl in educn of this univ (in or subsequent to 1957) or its equivalent, approved course of study for at least 2 yrs Non-grads., under certain conditions 3 yrs Thesis, oral and written exam LLD—on publ contributions to learning, after report, upon grads in laws of this univ of not less than 7 yrs' standing LLM—at least 2 yrs' systematic work after LLB *hons*—not lower than class 2, div 1, or equivalent, and presentation of thesis DSc—on publ contributions to sci, after report, candidates to be grads of the univ of not less than 6 yrs' standing MSc—thesis and, if required, exam *Hons* BSc of the univ, 3 complete terms' higher study or res Other grads of this or approved univ, a prescribed preparatory course and passing an exam, subsequently, 3 terms' higher study or res Other persons may, in spec circumstances, be accepted under certain conditions MD—(a) 2 yrs. after MB ChB, thesis with, if candidate desires, copies of publ original papers upon med sci, oral exam on subject of thesis (b) 5 yrs after MB ChB, exam in gen med and in a selected branch of med ChM—thesis and exam, open to holders of FRCS who are grads in med of this or other approved univ and to grads, other than med, of this or approved univ, who hold a med. qualif registrable in Gt Britain MChOrth—thesis and exam, after course of not less than 12 mos, open to grads in med. of this or other approved univ and to grads, other than med, of this or approved univ who are FRCS (Eng, Ed, I, Aust or Can) or Fellows of the American Coll of Surgeons or Fellows *qua* surgeons of the Royal Fac of Physicians & Surgeons, Glasgow MRad (in either radio-diag or radio-therapy)—open to holders of the dipl in radiol of the univ of 2 yrs' standing, thesis required MD8—2 yrs. standing from taking BDS, 3 yrs' standing (with 1 yr's higher study or res) from equivalent to BDS All candidates follow 6 mos' course, present thesis with, if desired, copies of publ work relative to dent sci and take spec exam DVSc—on grads in vet sci of the univ of 8 yrs' standing after report on publ contributions MVSc—a sessions of higher study after BVSc (or equivalent), by thesis or report and by exam if required DEng—on MEngs or PhDs (fac of engin) of 5 yrs' standing, after report on publ. contributions MEng—higher study or res following submission of thesis and, if required, an exam For grads with BEng *hons*, 1 yr full-time study, or 2 yrs' pt-time study, together with evidence of satis-

factory pursuit of sci or practice of engin. For grads with BEng without hons, 3 yrs' pt-time study. For other grads, 2 yrs' study. For approved non-grads, 3 yrs' study.

Doctors' and masters' degrees may be conferred as HONORARY DEGREES.

The univ. does not award EXTERNAL DEGREES.

DIPLOMAS. Archæol., open to grads of this or other approved univ., 1 or 2 yrs., thesis and exam, civic design, 1 or 2 yrs' prescribed study, thesis and exam, only suitably qualified candidates admitted, educn, open to candidates with approved initial qualif in educn and appropriate professional experience, 1 yr. full-time or 5 terms pt-time and 1 term full-time, thesis and exam, international law, open to grads or otherwise suitably qualified candidates, 1 yr., thesis and exam, pub admin, 3 yrs; soc admin, not less than 12 mos, candidates may specialize in child care or in mental health, study of records and admin of archives, 1 yr for full-time students, 2 yrs for others, indus admin, suitably qualified candidates, 2 yrs or 1 yr, as determined by fac.; appl psychol., 1 yr, engin., 2 yrs' practice of engin. after final exam for cert (incl 1 yr.'s approved study or dissertation)—candidates who passed in 8 papers in final cert exam, 2 yrs' practice, bldg sci, open to grads or holders of approved professional qualif., not less than 3 terms, vet hygiene (DVH), regns under revision. Postgrad med dipls DPH, 1 yr, DMR(D) or (T), 2 yrs; DTM&H, 3 mos.

CERTIFICATES. Archæol., 1 yr, separate arts subjects, not less than 2 yrs, soc sci., 1 or 2 yrs., educn, 1 yr (postgrad), engin., 4 yrs, teaching of handicapped children, open to qualified teachers with at least 3 yrs' experience of teaching of which not less than 2 yrs must have been spent in schs other than sp. schs, 1 yr.

POSTGRADUATE COURSES NOT LEADING TO A QUALIFICATION. Anaesthesia, 1 yr, psychol med, 6 terms pt-time (designed for those studying for a dipl in psychol. med).

RESEARCH FACILITIES are available in most depts. A Research Report is published annually.

STUDY LEAVE. Applicants are considered on their individual merits.

FEES. I *Tuition per session* BA, £45 (4th yr. special studies, £15), MA, 12 gns, BArch, £60 (4th yr, £40), MCD, £45, BCom, £45; MCom, 12 gns; MArch, 15 gns, MEd, 12 gns; BSc, £55 (hons. in mathl. phys. & maths, £40); MSc, £15 (mathl. phys. & maths, £12); MB ChB, £60 (6th yr., £38), ChM for the course, £60; MChOrth for the course, £100, BDS 1st, 2nd, 3rd yrs., £70, 4th yr., £65, 5th yr., £48, 6th yr., £12; MDS pathol. & bacteriol., £15; LLB, £40 (4th yr, £15), LLM, 12 gns., BEng, £55, MEng, £15, BVSc, £50 (2nd yr, £55); MVSc, £10 (1st yr, £20 if res. conducted within the univ.), PhD, £20. Dipls—civic des, £40; educn., £15 (2-yr. course) or £30 (1-yr. course);

archæol., £22, pub admin, £20, archives for the course, £45, indus. admin, £35; soc admin, £35, appl psychol., £35, DMR (D or T), £63, DPH, £60, DTM&H, 50 gns; internat. law, £20, bldg sci, £40. Certs—educn, £45, soc. sci., £30 or £35, archæol., £20, engin., £55, teaching of handicapped children, £35. II *Examination* (for the course) BA, £8 or £9; MA, £5, LitD, £10; BArch, £12-10s, MArch, £5, MEd, £5, MCD, £5, BCom, £8, MCom, £5, BSc, £8 to £11, MSc, £5 or £8, DSc (on applicn.), £10, MB ChB, 21 gns, MD, 10 gns, ChM, 5 gns to 10 gns; MChOrth, 10 gns; MRad, £10, BDS, 25 gns, MDS, 10 gns; LLB, £7 or £8, LLM, £5, LLD (on applicn.), £10, BEng, £9, MEng (on applicn.), £5, DEng (on applicn.), £10, BVSc, 25 gns., MVSc, £5; DVSe, £10, PhD (on applicn.), £12. Dipls—£2-10s-6d to 10 gns according to dipl. Certs.—£3 to £9 according to cert. III *Graduation fees* £5 to £10, according to degree. IV *Research fees* £15-per session. V *Apparatus fee* £10 (degrees of MSc, MEng, MVSc, PhD, and res). VI *Subscription* to guild of undergrads., 6 gns. per session, to be paid by students attending full regular courses.

ACADEMIC YEAR. Oct to July. 3 terms of 10 wks each.

ADULT EDUCATION (see also 'Teaching Staff', above). A univ. bd. of extra-mural studies, with a number of standing ctees, is responsible for extra-mural work which, in the city of Liverpool, is centred in the Royal Instn. A variety of courses is organized throughout the extra-mural area, incl postgrad courses, study courses, and extension courses for the general public. Tutorial and sessional classes are undertaken in collaboration with the W.E.A. Lectures for schs are arranged. The dept. of extra-mural studies is responsible for the administration of civilian aid in educn. of H.M. Forces.

VACATION COURSES. Residential and non-residential courses, mostly postgrad., are arranged by the extra-mural dept. during the Easter and occasionally during the long vacation. An international summer sch. is arranged annually at Chester for extension, W.E.A. and overseas students.

POSTGRADUATE AWARDS open to grads. of other univs. see p 808.

APPOINTMENTS BOARD (For sec and asst. secs, see p 944). The function of the bd. is to advise students and grads concerning careers and employment, and to assist them in obtaining posts.

ASSOCIATION OF GRADUATES. Besides convocation, there is a Liverpool Univ. Soc., with mainly social functions. Chairman, D. Purdon, BEng, 2 Ashway, Gayton, Cheshire, Wirral, Cheshire.

RESIDENCE (For wardens, see 'Admin. and Other Staff', above). For women University Hall, Holly Rd., Fairfield, Liverpool, 7 (tel. Anfield 1458), 150 students; Dale Hall, Elmswood Rd., Mossley Hill, Liverpool, 18 (tel. :

Allerton 2294), 156 students, Rankin Hall, 44 Ullet Rd., Liverpool, 17 (tel. Sefton Park 1723), 130 students. For men Derby Hall, North Mossley Hill Rd., Liverpool, 18 (tel. Allerton 2331), 240 students, Rathbone Hall, North Mossley Hill Rd., Liverpool, 18 (tel. Allerton 1000), 260 students. Fees for all halls, £148 to £160 per session.

OFFICERS' TRAINING CORPS H.Q. and orderly room, 56 Bedford St North, Liverpool, 7. Trg wing and officers' mess, The Drill Hall, Upper Warwick St, Liverpool, 8. Hon. Col. Brigadier R. N. M. Jones, CBE. CO. Lt.-Col. G. E. Beard, TD. 2nd 1/c, Major A. J. MacKenzie. Admin. Officer in charge W.R.A.C. Coy. Major M. E. Yeates, W.R.A.C.

UNIVERSITY AIR SQUADRON. H.Q.: Royal Air Force, Everton Rd., Liverpool, 6. C.O. Sqdn. Leader N. G. Jones, DFC, BSc. Adjutant Flight Lt. R. J. Shelton. Chief Flying Instr., Flight Lt. K. J. Miles.

STUDENT HEALTH SERVICE. A student health service is provided by the Univ. under the control of a chief med. officer, assisted by other med. officers (one of whom is a woman) and a student welfare officer.

GUILD OF UNDERGRADUATES. Students' union. 2 Bedford St North, Liverpool, 7.

PUBLICATIONS. *Calendar* (Nov.), 10s 6d., post free; *Diary* (Oct.), free to members of the Univ., *General Prospectus*; *Perspectives of Facts and Schools* and leaflets on degree courses (Sept.), 3d to 2s 6d.; *Recorder*, 2s. 6d. p.a. (this is a Univ. gazette publ'd at beginning of each term), *Students' Handbook* (Aug.), free for freshers, students' magazine, *The Sphinx*, 1s. (3 nos. per session); *Guild Gazette*, 3d (3-weekly intervals), med. students' mag., *Sphincter*, 1s (3 numbers per session).

UNIVERSITY PRESS, 123 Grove St., Liverpool, 7 (telegrams Cormorant, Liverpool, tel. Royal 3630 and 6022). Sec. J. G. O'Kane, BCom DipEd Durh. Sales manager C. Taylor. The press publishes works of scholarship, Univ. and sch. text-books and books of general interest. It also publishes the following quarterly periodicals: *Annals of Tropical Medicine & Parasitology*, *Journal of Comparative Pathology & Therapeutics*, *Town Planning Review*, *Bulletin of Hispanic Studies* and *Business History*.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS Bldgs completed. Bldg for Van der Graaf machine. Approaching completion. org chem lab, fabric dept bldg.

NEW CHAIR Vet anat

RETIREMENTS J. R. Bruce (dep dir, marine biol stn), Dr. A. T. Doodson (dir, Liverpool observatory & tidal inst.), Dr. Madeline Kerr (soc sci)

RESIGNATIONS Dr. Joan B. Dixon (vet pathol.), T. J. Forbes (animal husb), apptd to staff of Dub., Dr. B. Hird (phys), to take up post at Queen Mary Coll., Lond.; W. G. Horne (pathol.), to take up appt. in Canada; Dr. E. S. Jones (med); J. K. Page (bldg sci), apptd to chair of bldg. sci, Sheff.; R. A. Phillips (mech engin.), A. P. Prosser (inorg & phys chem), apptd to post at Imperial Coll, Lond.; Dr. J. R. Roberts (child health), D. Severn (asst estate officer); Miss Jeanne M. Silcock (metall.), Dr. K. H. Slater (med), apptd to hosp. post; D. P. Thomas (archit), apptd. hd of Welsh Sch of Archit., Cardiff; Dr. D. A. Turab (civil engin), returning to Univ of Khartoum, Dr. F. Wilson (anaesthes.), apptd to hosp. post at Bristol

DEATHS. Sir Arthur Gemmell (lectr in obstet & gynaecol, 1931-57), Emer Prof W. S. Patton (prof of entomol. 1927-37); Prof. H. W. B. Skinner (Lyons Jonea prof of phys. since 1949), Sir Giles Gilbert Scott (hon. reader in ecclesiastical archit. since 1904)

HONORARY DEGREES. DSc—Prof N. F. Mott, Cavendish prof of exper phys & master, Gonville & Caius Coll, Camb.; Prof R. E. Peierls, prof of mathl phys, Birm. LL.D.—Sir Kenneth Clark, chairman, Arts Council of Gt. Britain, Sir Charles Snow, scientist and writer, Baroness Wootton of Abinger, economist and sociologist. DEng—Prof J. F. Baker, prof of mech scis & hd of dept of engin, Camb.; Sir Arthur Whitaker, civil engineer-in-chief to Admiralty, 1940-54. MA—F. G. Blair, master & librarian of Athenæum Library, Liverpool, Genevieve O. Davidson, pres, French Lit Soc in Liverpool since 1937, S. W. Exworthy, pres, NUT, 1960. LL.M.—H. A. G. Langton, clerk to Liverpool city justices since 1946.

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	3063	211
Women	1014	51
Total	4077	262

Distribution by Faculties: Arts, 1406; engin., 495; law, 107; med. (incl dent.), 846; sci., 1319; vet sci, 166. Total. 4339

Included in the figures above are:—
Postgraduate students, 847

New admissions, 1094

Students from other countries, 327 (Countries from which largest numbers came. India, 44, Iraq, 29, Nigeria, 21, U A R., 15)

DEGREES AWARDED (1959-60) *Arts*: BCom, 11, BCom (hons.), 6, BAArch, 13; BAArch (hons.), 7, BA, 54, BA (hons.), 160; MCD, 9, MA, 31 *Engin*: BEng, 35, BEng (hons.), 46, MEng, 2, DEng, 1 *Law*: LLB, 3, LLB (hons.), 17 *Med.*: MB ChB, 64, MB ChB (hons.), 5, ChM, 6, MChOrth, 10; MD, 9, BDS, 8 *Sci*: BSc, 182, BSc (hons.), 139,

MSc, 17, DSc, 2. *Vet sci*: BVSc, 29; BVSc (hons.), 1, MVSc, 1, DVSc, 1 PhD (all facs) 62. Total number of first degrees awarded, 780.

DIPLOMAS AWARDED (1959-60) *Educn*, 30; civic design, 2, DiplPA, 13, study of records & admin of archives, 1, industrial sociol, 11; appl psychol, 5, DPH, 15, DTM&H, 58; DMR, 12; LDS, 17

CERTIFICATES AWARDED (1959-60). *Educn.*, 98, Italian, 1, soc sci, 29.

UNIVERSITY OF LONDON*

Founded 1836

Postal Address: Senate House, London, W.C. 1, England

Cables and Telegrams: University, London

Telephone: Museum 8000

VISITOR—H.M. THE QUEEN IN COUNCIL

CHANCELLOR—H.M. QUEEN ELIZABETH THE QUEEN MOTHER

VICE-CHANCELLOR—P. S. NOBLE, MA *Aberd & Camb*, Hon. LLD *Aberd*

CHAIRMAN OF CONVOCATION—C. F. HARRIS, MD, FRCP

CHAIRMAN OF THE COURT—The Rt. Hon. LORD BIRKETT, MA LLB *Camb*, Hon. LLD *Camb*, *Hull & Lond*

PRINCIPAL—SIR DOUGLAS LOGAN, MA DPhil *Oxon*, Hon. DCL *W. Ont*, Hon. LLD *Melb*, *Madr*, *Br. Col.* & *H. K.*

CLERK OF THE COURT—J. R. STEWART, MA *Dinh*

SECRETARY TO THE SENATE—J. HOOD PHILLIPS, MA *Oxon*

ACADEMIC REGISTRAR—J. HENDERSON, BSc MA *Edin*, PhD

EXTERNAL REGISTRAR—L. E. BALL, OBE, BSc

DIRECTOR OF DEPARTMENT OF EXTRA-MURAL STUDIES—W. BURMEISTER, MA *Oxon*

SECRETARY TO THE UNIVERSITY ENTRANCE AND SCHOOL EXAMINATIONS COUNCIL—G. BRUCE, MA *Camb*

GOLDSMITHS' LIBRARIAN—J. H. P. PAFFORD, MA, FSA, FLA

ACCOUNTANT—A. B. WATERFIELD, BA, FCA

SUPERINTENDENT OF EXAMINATIONS—G. S. CONGREVE, BA

ADMINISTRATIVE AND OTHER STAFF

Sec. to Appts Bd.: E. H. K. DIBDEN, MA *Camb*, BSc
Sec. to Athlone Press: W. D. HOGARTH, OBE, MA *Oxon*
Maintenance Officer: F. C. RICHARDSON, CBE, BCom
Dep. Clerk of Court: R. G. HUTCHINGS, BA
Dep. Academic Registrar: D. H. WEIR, OBE, MA
Dep. External Registrar: R. L. STEAR, OBE, TD, BSc
Dep. Dir. (Extension), Dept. of Extra-mural Studies: C. P. THOMAS, BA *Wales*
Dep. Dir. (Tutorial Classes): F. G. BROOK, BSc (Econ) PhD
Dep. Sec. to Univ. Entrance & Sch. Exams.

Council: A. B. SAINSBURY, MA *Oxon*
Sec. to Univ. Entrance Requirements Dept.: W. J. DEY, MA *Durh*
Dep. Librarian: Joan M. HARRIS, BA, FLA
Dep. Supt. of Exams.: J. RATHBORN, BA
Adviser to Overseas Students: Mary Trevelyan, OBE
Warden of Univ. Union: G. W. FENN, MA *Camb*
Lodgings Officer: Mrs. Eveline M. Tabert, BA
Wardens of Halls of Residence: D. M. LANG, PhD *Camb*, DLit (Connaught Hall), Doreen M. Tulloch, MA PhD (Canterbury Hall), Mrs. Elizabeth Osman, BA *Oxon* (Nutford House)

SCHOOLS AND INSTITUTIONS

UNIV. teaching is carried on in (1) univ. instns. of a specialized kind, mostly for postgrad. work, (2) 'schools of the univ.', (3) other instns. at

which there are 'recognized teachers of the univ.'

For the convenience of readers these have been

* Member of the Association of Universities of the British Commonwealth

divided in the following reference list into university insts, non-med schools, undergrad med and dent schools, post-grad med schools, instns with recognized teachers

For a more precise differentiation see the University of London Calendar

University Institutes

Courtauld Institute of Art (p. 966)
Institute of Advanced Legal Studies (p. 967)
Institute of Archaeology (p. 968)
Institute of Classical Studies (p. 970)
Institute of Commonwealth Studies (p. 971)
Institute of Education (p. 972)
Institute of Germanic Languages and Literatures (p. 975)
Institute of Historical Research (p. 976)
School of Slavonic and East European Studies (p. 977)
Warburg Institute (p. 978)

Non-Medical Schools

Bedford College (for women) (p. 980)
Birkbeck College (p. 983)
Imperial College of Science and Technology (p. 987)
King's College (p. 995)
London School of Economics and Political Science (p. 1000)
Queen Elizabeth College (p. 1005)
Queen Mary College (p. 1007)
Royal Holloway College (for women) (p. 1011)
Royal Veterinary College (p. 1013)
School of Oriental and African Studies (p. 1015)
School of Pharmacy (p. 1020)
University College (p. 1022)
Westfield College (for women) (p. 1032)
Wye College (p. 1034)

Theological Schools (p. 1037)

- *King's College - Theol Dept
- *New College
- *Richmond College

Undergrads Medical and Dental Schools

Charing Cross Hospital Medical School (p. 1038)
Guy's Hospital Medical School (p. 1040)
King's College Hospital Medical School (p. 1043)
London Hospital Medical College (p. 1046)
Middlesex Hospital Medical School (p. 1048)
Royal Dental Hospital of London, School of Dental Surgery (p. 1051)
Royal Free Hospital School of Medicine (p. 1052)
St. Bartholomew's Hospital Medical College (p. 1055)

St George's Hospital Medical School (p. 1057)
St Mary's Hospital Medical School (p. 1059)
St. Thomas's Hospital Medical School (p. 1062)
University College Hospital Medical School (p. 1064)
Westminster Medical School (p. 1068)

Postgraduate Medical Schools

British Postgraduate Medical Federation (p. 1070). —
Postgraduate Medical School of London (p. 1075)
Institute of Basic Medical Sciences (p. 1076)
Institute of Cancer Research (p. 1076)
Institute of Cardiology (p. 1076)
Institute of Child Health (p. 1077)
Institute of Dental Surgery (p. 1077)
Institute of Dermatology (p. 1077)
Institute of Diseases of the Chest (p. 1078)
Institute of Laryngology and Otology (p. 1078)
Institute of Neurology (p. 1078)
Institute of Obstetrics and Gynaecology (p. 1079)
Institute of Ophthalmology (p. 1079)
Institute of Orthopaedics (p. 1079)
Institute of Psychiatry (p. 1080)
Institute of Urology (p. 1080)

London School of Hygiene and Tropical Medicine (p. 1081).

*Lester Institute of Preventive Medicine (p. 1084)

*Institutions with Recognized Teachers

University of London Goldsmiths' College (p. 1085)
Battersea College of Technology (p. 1085)
Chelsea College of Science and Technology (p. 1085)
College of Estate Management (p. 1085)
East Malling Research Station (p. 1085)
Jews' College (p. 1085)
Maria Grey College (p. 1085)
National Institute for Medical Research (p. 1085)
Northampton College of Advanced Technology (p. 1085)
Northern Polytechnic (p. 1085)
Rothamsted Experimental Station (p. 1085)
Royal Academy of Music (p. 1086)
Royal College of Music (p. 1086)
Sir John Cass College (p. 1086)
Trinity College of Music (p. 1086)
West Ham College of Technology (p. 1086)
Woolwich Polytechnic (p. 1086)

GENERAL INFORMATION

The univ. authorities wish it to be clearly understood that they can accept no responsibility for any information concerning exams or procedure except

that contained in the latest edition of their own official regns, which can always be obtained on applicn. at the univ. offices, Senate House, London, W.C.1.

* Not in receipt of U G C grants

U.K.—ENGLAND (LONDON)

The univ. was constituted by royal charter in 1836 as a body empowered to grant degrees to students of approved instns. after exam. and, until 1900, its work was confined to the examination of students. The system whereby entrance to its exams. was restricted to students of certain affiliated colls. was abolished, except for exams in med., in 1858. In 1878 its degrees were thrown open to women, London being the first of the univs. of Gt Britain to adopt this policy.

In 1900 the univ. was reconstituted so as to strengthen the ties between it and the instns engaged in higher educn in the London area. The senate was empowered to admit as *schools of the univ.* instns, situated within the admin. county of London and not carried on for the private gain or profit of the owners, which provide educn of univ. standard, and was required to obtain reports at prescribed intervals on the efficiency of such schs. A sp. form of recognition could be given to an instn. within the same area founded for res. or the cultivation of any sp. branch of sci. or learning, and the Lister Inst. of Prev. Med. has been admitted in this category.

The two original colls. of the univ. have been incorporated in it, Univ. Coll. in 1907 and King's Coll. in 1920, by special acts of parliament.

There are now 24 non-med. and 15 med. schs. (incl. 2 postgrad.) in receipt of U.G.C. grants, and 4 schs. not in receipt of U.G.C. grants. In addn. there are 10 univ. institutes. There are 17 non-univ. instns. having some recognized teachers.

CONSTITUTION The univ. is governed under statutes made under the Univ. of London Act, 1926.

The court has the custody, control and disposition of all the property, funds and investments of the univ. and controls its finances. It comprises the chancellor, vice-chancellor, chairman of convocation and 14 other members, of whom 6 are apptd. by the senate, 4 by H.M. in Council and 3 by local authorities, 1 member being co-opted. One of its most important duties is to apply for the grants for univ. purposes to the Univ. Grants Ctee., the London County Council, county councils and county borough councils of the home counties, and other public bodies, and to distribute the sums so received between univ. instns. and those schs. which receive financial aid from the univ.

The court is also responsible for the devel. of the univ. precinct (see below).

The senate is the supreme governing and executive body of the univ. in all academic matters. It is composed of reps. of the facs and of convocation, the principal, and certain hds. of schs. All appointed teachers at schs. of the univ. are apptd. by the senate, which also has power to recognize as teachers of the univ. members of the teaching staff of certain approved public educn. instns., whether schs. of the univ. or not.

Convocation consists of grads. of the univ. who have attained the age of 21 yrs., together with

members of the 5 standing ctees. of the senate, who have paid the prescribed fees. It elects the chancellor, and 18 members of the senate in addn. to the chairman of convocation, who is *ex officio* a member of the senate and court. Convocation may discuss any matter relating to the univ. and declare its opinion thereon to the court or senate.

INCOME (1959-60) The total income for recurrent purposes of the univ., incl. all its schs. and instns., was £16,722,107 (Treasury grants, 73 per cent.; grants from other govt. depts., 0.1 per cent.; grants in aid from local authorities, 2.5 per cent.; fees (incl. Ministry of Educn. tuition grants for teachers in trg.), 9 per cent.; endowments for both particular and general purposes, 1.5 per cent.; donations and subs., 0.5 per cent.; grants for res. and income from res. contracts, 8.4 per cent.; contributions for services rendered, 3.3 per cent.; other sources, 1.7 per cent.).

FACULTIES AND DEANS. *Arts*, Prof. J. S. Spink (Bedford Coll.); *econ.* (incl. comm. & industry) and *pol. sci.*, H. Tout (Univ. Coll.); *engin.*, Prof. J. Greig (King's Coll.); *laws*, Prof. G. D. Nokes (King's Coll.); *med.*, Dr. H. B. May (London Hosp. Med. Coll.); *music*, , *sci.*, Prof. J. A. B. Gray (Univ. Coll.); *theol.*, Rev. G. F. Nuttall (New Coll.).

UNIVERSITY PRECINCT. The administration of the univ. is centred at the Senate House, W.C.1, which provides accomm. for offices and the univ. library, as well as for the Insts. of Educn., Historical Research and Slavonic Studies. The bldg., designed by Charles Holden and opened in 1936, was erected on part of the Bloomsbury site, an area of 11½ acres purchased in 1927. A further 13½ acres were purchased from the Bedford estate in 1951. Substantial purchases of property have also been made on behalf of Univ. Coll., which now owns the greater part of the rectangle in which it is situated. This rectangle, together with the original Bloomsbury site and the areas purchased from the Bedford estate since the war, provides a compact area between the British Museum and the Euston Rd. for development for univ. purposes and a comprehensive outline development plan for the area has been prepared by Prof. Sir Leslie Martin.

The **UNIVERSITY LIBRARY** is a general library incl. all subs. studied in the univ., but it is specially strong in the humanities, particularly in Engl. lit., incl. large Shakespeare collection. It contains about 700,000 vols. and 4000 current periodicals, and provides reading accomm. for 450 readers and an extensive loan service for members of the univ. Among its sp. collections are the Goldsmiths' libr. of econ. lit. (c. 70,000 vols. & pamphlets), the Durning-Lawrence libr., containing an important collection of books by and about Sir Francis Bacon, and a good working libr. on Shakespeare including the four folios, the De Morgan libr. of mathl. and astronomical books, the Quick memorial libr. of books on educn., especially rich in old text-books for the

school-room, the Harry Price libr of magical lit., the Eliot-Phelps collection of Spanish books and works on the history of Spain, and the Sterling libr of rare Engl books.

The music libr contains books and periodicals on music, music scores and gramophone records. The photographic dept. is equipped to produce photostats, microfilms, enlargements, reflex and diazo copies, and work is undertaken both for insts and members of the univ and also for those unconnected with the univ.

Each sch and institution of the univ. has its own library, and some particulars of these will be found in the respective *Yearbook* entries below. For further details of the libraries of the univ, see R. Irwin & R. Staveley *The Libraries of London, 1961*, and L. M. Harrod *The Libraries of Greater London, 1951*.

University library depository provides facilities for co-operative storage of books which libraries of the univ are unable to house in their own bldgs. It came into use in May 1960 and the present bldg accommodates about 250,000 vols. *Address*: Spring Rise, Egham, Surrey (tel. Egham 4560). Librarian-in-Charge J. P. Mansbridge, BA.

ADMISSION Intending students who are suitably qualified (see Appendix III) must apply to the sec. to the univ. entrance requirements dept., on form M (obtainable from the sec.), for a 'statement of eligibility'. They must apply to the sch. of their choice (see pp. 950-951) for admission. The admission of students, provided they satisfy univ. entrance requirements, is entirely a matter for the individual schs. In all facs, except theol., med., laws and econ., fac. requirements (see Appendix III) must also be satisfied.

DEGREES. BD, MTh, DD, BA, MA, DLit, LLB, LL.M., LL.D.; BMus, DMus, MB BS, MD, MS; BDS, MDS; BVetMed, MVetMed, BPharm, MPharm, BSc, MSc, DSc; PhD (in all facs).

The BSc and DSc are granted in the facs of sci. (incl. agric., hort., and, for internal students, BSc in household sci., nutrition and in archit.), engin., and econ. (incl. estate management and social), the MSc in sci. (incl. agric., hort., and, for internal students, household sci. and nutrition), engin. and econ. (incl. estate management).

EXTERNAL STUDENTS are permitted to proceed to the degrees of BD, BA, LLB, BMus and BSc (in the facs of sci. and econ.) without restriction on the nature of the course of study, which may be pursued in a teaching instn in London (not forming part of the Univ. of London), in a teaching instn. situated elsewhere in the United Kingdom or overseas, or by private study. Exams are held each yr. at centres located in many parts of the U.K. and in many countries overseas.

External students are also permitted to proceed to the degrees of MB BS, BDS, BPharm and BSc (in the fac. of engin.) provided that an approved course of study has been completed in a teaching

instn which has been recognized by the Univ. of London for the purpose of these exams. (With very few exceptions, all such instns are situated in the U.K.)

External students who wish to proceed to the degree of BA or BSc with social. as the principal subj. are normally required to pursue their studies in the U.K. and to attend course at approved instns., but exceptions may be made in sp. cases.

A student who wishes to proceed to the external higher degrees of MTh, MA, LL.M., MD, MS, MDS, MPharm and MSc (in the facs of sci., engin. and econ.) and/or to the external degree of PhD (in all facs) must normally already possess an appropriate bachelor's degree of the Univ. of London.

The degrees of DD, DLit, LL.D., DMus and DSc (in the facs of sci., engin. and econ.) are not differentiated between internal and external students, but all candidates for these degrees are required to hold at least one degree of the Univ. of London in the appropriate fac.

All external students are required to register, and all must previously have matriculated or must satisfy the min. entrance requirements of the univ. at the time of first registration and the addnl. requirements prescribed before admission to the exams for the particular degree. Copies of all regns. may be obtained from the external registrar.

An **INTERNAL STUDENT**, before being allowed to enter as such for any exam., must, unless specially exempted, have attended courses in all the subsj. thereof. For a 1st degree in any fac. he must have completed an approved course of study extending over at least 3 yrs. which must, ordinarily, have been continuously pursued, but not necessarily all at one institution. As a general rule, honrs. may be taken at the final exams.

INTERNAL DEGREES * Courses for internal degrees are provided at the following:

Theology King's Coll. Theol. Dept., New Coll., Richmond Coll.

Arts. Courtauld Inst. of Art. Sch. of Slavonic and E. European Studies, Bedford Coll. (for women), Birkbeck Coll. (for pt-time students and some full-time postgrad. students), King's Coll., London Sch. of Econ. (*anthropol., hist., geog., philosophy and econ. and social* only), Queen Mary Coll., Royal Holloway Coll. (for women), Sch. of Oriental and African Studies, Univ. Coll., Westfield Coll. (for women), Jews' Coll.

Architecture. Univ. Coll.

Laws. King's Coll., London Sch. of Econ., Sch. of Oriental and African Studies, Univ. Coll.

Music. Battersea Coll. of Technol., Royal Academy of Music, Royal Coll. of Music, Trinity Coll. of Music.

Medicine. Guy's Hosp. Med. Sch., Middlesex Hosp. Med. Sch., Royal Free Hosp. Sch. of Med., St. Bartholomew's Hosp. Med. Coll., St. Mary's Hosp. Med. Sch., St. Thomas's Hosp. Med. Sch., and, with the exception of the 1st yr., Charing Cross Hosp. Med. Sch. and the London Hosp.

* See also Table on pp. 956-958

Med. Coll Courses for the 2nd exam for med degrees are provided at King's Coll and at Univ. Coll. Students from King's Coll attend the clin. course at King's Coll Hosp Med Sch, St George's Hosp Med Sch or Westminster Med Sch. Students from Univ Coll attend the clin. course at Univ Coll Hosp Med Sch. Courses for the 1st exam for med degrees are held at Northern Polytechnic.

Dental surgery Guy's Hosp. Med Sch, King's Coll. Hosp. Med. Sch, London Hosp Med Coll., Royal Dental Hosp. of London Sch. of Dental Surg., Univ. Coll. Hosp. Med. Sch.

Veterinary medicine Royal Veterinary Coll. Pharmacy School of Pharmacy, Chelsea Coll. of Sci and Technol.

Postgraduate. British Postgrad Med Federation (Postgrad Med Sch of London, Inst. of Basic Med. Scis., Inst. of Cancer Res., Inst. of Cardiol., Inst. of Child Health, Inst. of Dental Surg., Inst. of Dermatol., Inst. of Diseases of the Chest, Inst. of Laryngol and Otol., Inst. of Neurol., Inst. of Obstet and Gynaecol., Inst. of Ophthalmol., Inst. of Orthopaedics, Inst. of Psychiatry, Inst. of Urol.), London Sch. of Hyg and Trop. Med., Lister Inst. of Prev. Med.

Science Bedford Coll. (for women), Birkbeck Coll. (for pt-time students and some full-time postgrad students), Imperial Coll. of Sci and Technol., King's Coll., Queen Elizabeth Coll., Queen Mary Coll., Royal Holloway Coll. (for women), Univ. Coll., Westfield Coll. (for women), London Sch. of Hyg. and Trop. Med., Battersea Coll. of Technol., Chelsea Coll. of Sci and Technol., Northern Polytechnic, Sir John Cass Coll., West Ham Coll. of Technol., Woolwich Polytechnic.

Agriculture and horticulture. Wye Coll. Household science and nutrition. Queen Elizabeth Coll.

Architecture Univ Coll.

Engineering Imperial Coll. of Sci and Technol., King's Coll., Queen Mary Coll., Univ Coll., Battersea Coll. of Technol., Northampton Coll. of Advanced Technol., Sir John Cass Coll. (metall. only), West Ham Coll. of Technol., Woolwich Polytechnic.

Economics Bedford Coll. (for BSc(Soc) only), London Sch. of Econ., Univ. Coll.

Estate management Coll. of Estate Management.

Courses for the postgrad. cert in educn. are held at the Inst. of Educn., King's Coll., Goldsmiths' Coll. and Maria Grey Coll.

The Table of First Degree Courses on pp. 956-958 shows by which schools of the univ. courses in various subs. are provided. (In addition, courses leading to certain internal degrees of the univ. are provided by certain of the Institutions with Recognized Teachers of the Univ. of London—see above and pp. 1085-1086).

The following is a brief summary of the regns

There are many exceptions and exemptions in regard to which reference should be made to the latest edition of the *Regulations* published by the univ. (see p. 964).

Arts. The following *first degrees* are awarded. BA (gen.), BA hons., BA hons in archit.

BA (gen.) and BA hons. Normally not less than 3 yrs. In the exam for BA (gen.) degree 3 subs. must be taken. The BA hons. degree may be taken in any one of the following branches: classics, Greek, Latin, hist., hist. of art, geog., maths., philos., psychol., sociol., Dutch, Engl., French, German, Italian, Portuguese, Roumanian lang. & lit., Spanish, Scandinavian langs., Czech. and Slovak lang. & lit., Hungarian lang. & lit., Polish lang. & lit., Russian lang. & lit., Serbo-Croat lang. & lit., Slavonic and E. European regional studies, Arabic, classical Chinese, mod. Chinese, Hebrew, Hebrew and Arabic, classical Japanese, mod. Japanese, Malay, Pali, classical Persian, Sanskrit, Sinhalese, Turkish, also archit. and Celtic for external students and, for internal students, African studies, anthropol., Bengali, Burmese, Gujarati, Hebrew and Assyrian, Hebrew and Egyptian, Hindi, Marathi, philos., and Greek, philos. and econ., philos. and psychol., Tamil and Urdu. Candidates for BA hons. degrees in certain subs. must also offer a subsidiary subj. The BA in archit. course under revised regns. for internal students extends over 3 yrs.

The following *higher degrees* are awarded: MA, MA in archit., PhD, DLit. Admission to exams. for these degrees is confined to grads. of this or other univs. except DLit., which is confined to grads. of the Univ. of Lond. Exam for the MA degree may be by written papers and/or by thesis and oral exam. Exam for the PhD degree is by thesis and oral (examiners may require written and/or practical). Candidates for the DLit. degree must have previously obtained the BA or MA degree or PhD degree in the fac. of arts. The DLit. degree is conferred for original publ. work.

Diplomas Internal academic dipls in educn., 1 yr., geog., 2 yrs., hist. of art, 2 yrs. postgrad.; town planning, pt-time, 1 yr. Academic postgrad. dipls in anthropol., archaeol., compar. philol., phonetics; psychol., 1 yr. whole-time, 2 yrs. pt-time, archive admin., librarianship, 1 yr. whole-time, 2-5 yrs. pt-time, postgrad. cert in educn., 1 yr., dipl. in fine art, 4 yrs. External dipls in geog., educn., postgrad. cert in educn. For dipls in the humanities, see Extra-Mural Studies, below.

SCIENCE The following *first degrees* are awarded.

BSc (gen.) normally 3 yrs.; prelim. qualifs. normally 3 specified subs. of G.C.E., incl. 2 at advanced level, pt. I of final exam., taken after 1 yr., in 3 subs. selected from approved list; pt. II of final exam., taken 2 yrs. after completion of pt. I, in 2 subs. selected from biochem., bot., chem., geol., human biol., phys., physiol., zool., astron., geog., maths. (pure & appl.),

psychol, pure maths and stats *BSc (spec)* normally 3 yrs., prelim. qualifs., normally 3 specified subs at G.C.E. advanced level or the equivalent. Final exam in the principal subj and exams. in 1 or more ancillary subs. The subs for *BSc (spec)* are anat., anthropol., astron., biochem., bot., chem., geog., geol., maths., phys., physiol., psychol., stats., zool. In each of the subs biochem., chem., geol., maths., microbiol., phys., physiol., stats., a student already registered for *BSc (spec.)* in that subj and having completed at least 1 yr. of the course for that degree may on appln be permitted to transfer to a course leading to the final exam for the degree of *BSc—without hon.*—in that subj. *BSc(Agriculture)* normally a 3-yr course, prelim. qualifs., 2 specified subs at G.C.E. advanced level or the equivalent, 1st exam in phys. scis and biol., and exam. in econ and final exam in crop production, animal production and rural econ. *BSc (Horticulture)* normally a 3-yr course, first exam. in 5 subs. Final exam, principles and practice of hortic. *BSc(Nutrition)* normally a 3-yr course, prelim. qualifs., 4 specified subs at G.C.E. mol. 2 at advanced level. Final exam, pt I in biol. and phys., pt II in chem. and pt. III in nutrition and physiol. *BSc(Household Science)* as for *BSc (Nutrition)* except that pt II includes physiol. also and pt III consists of household sci. and either chem. or physiol. *BSc(Architecture)* for internal students normally a 3-yr course.

Exemptions may be granted, under certain conditions, from prelim and ancillary sub exams.

The following *higher degrees* are awarded. *MSc, PhD, DSc*. The *MSc* is conferred in the following branches: agric., anat., anthropol., astron., biochem., biophys., bot., chem., engin., chem., crystallog., genetics, geog., geol., geophys., hist. & philos. of sci., hortic., maths., microbiol., nutrition, pharmacol., phys., physiol., psychol., radiation biol. and radiation phys., stats., zool. The *MSc* is obtainable by written exam., dissertation, practical and oral, or by some of these methods or by thesis and oral, the *PhD* by thesis and oral. (Examiners may also require written and/or practical.) Admission to exams for these degrees is confined to grads of this or other univs. *DSc* candidates must already have obtained a degree of this univ in sci. (or in certain cases in arts, med. or engin.) and must submit original pubd work.

Diplomas. Academic postgrad. dipl. in bacteriol., 1 yr.; academic postgrad. dipl. in dietetics, about 1 yr.; academic dipl. in geog., 2 yrs.; academic postgrad. dipl. in maths., 1 yr. whole-time, 2 yrs. pt-time; academic postgrad. dipl. in numerical analysis, 1 yr. whole-time, 2 yrs. pt-time; academic postgrad. dipl. in psychol., 1 yr. whole-time, 2 yrs. pt-time; academic postgrad. dipl. in stats., 1 yr. whole-time, 2 yrs. pt-time; external dipl. in geog., 1-2 yrs.

THEOLOGY Prelim. (*revised regns*) subs for

BD—new test. Greek, for BD hon.—new test. Greek, old test. Hebrew.

First degree. BD (*old regns*)—last exam. under these regns to be held in 1964. Not less than 2 yrs. after inter. Final exam covers 5 compulsory subs (old test, new test., biblical & hist. theol., church hist., philos. introdn. to theol.) and a selected subj. BD (*revised regns.*). At end of 3rd yr. final exam. covers 5 compulsory subs (old test, new test., biblical & hist. theol., church hist., philos. of religion) and a selected subj. BD hon. At end of 3rd yr. final exam. consists of 10 written papers (old test. I and II, new test. I and II, Christian doctrine to A.D. 451, church hist., philos. of religion plus 2 sp. subs and an optional subj.).

Higher degrees. MTh is open to those who have obtained BD with 1st or 2nd class (upper div.) hon. of this univ or BD with hon. of this univ in or before 1964. Grads of this univ with other degrees will be required to pass a qualifying exam. Grads of other univs must have equivalent qualifs., failing which they will be required to pass a qualifying exam. Candidates are examined in any one of 6 branches.

DD. Candidates must have obtained BD (hons.) or MTh or PhD of this univ and must submit pubd work.

Diplomas. Academic dipl. in theol., 2 yrs. (also for external students).

LAW. Inter. Course extends over 1 yr. Subs. Roman private L., constitutional L., Engl. legal system, elements of L. of contract. Exemptions: a pass at BA (gen.) in constitutional laws of the British Empire exempts from constitutional L., and in general principles of Engl. private L. exempts from elements of the L. of contract, *BSc(Econ)* with a pass at pt I in elements of Engl. L. exempts from Engl. legal system.

First degree. LLB. Normally 2 yrs. after inter. The final exam. is in 2 pts and candidates must normally pass pt I before entering for pt II. Pt I consists of 4 selected papers. Pt II consists of a paper on jurispr. and legal theory and 3 papers chosen from a list of 14 alternative subs.

Higher degrees. LL.M. Normally no candidate is admitted until 2 yrs. after passing the LLB or academic postgrad. dipl. in law or equivalent. Candidates are examined in 4 papers chosen from a list of 26, or in sp. cases may submit a dissertation and be examined in 2 papers. LL.D. Candidates must hold the LLB or LL.M. or the PhD in the fac. of laws and must submit pubd work.

Diploma. Academic postgrad. dipl. in law, not less than 1 yr.

MEDICINE. MB BS degrees: the course for the MB BS degrees extends normally over 5½ yrs. The 1st exam. for med. degrees (chem., phys. and biol.) is taken after 3 terms. G.C.E. at advanced level or inter. in sci. or higher sch. cert. may carry exemption from whole or part of 1st MB. The 2nd exam. for med. degrees (human anat., physiol.)

[continued on p. 960]

TABLE OF FIRST DEGREE COURSES AT SCHOOLS OF UNIVERSITY OF LONDON
(For Notes, see p. 959)

<i>For an explanation of the symbols used, see p. 959.</i>	Bedford	Birkbeck	Imperial	King's	London School of Economics	Queen Elizabeth	Queen Mary	Royal Holloway	School of Oriental and African Studies	University College	Westfield	Wye	School of Slavonic and R. European Studies	Courtauld Institute of Art
Anatomy ¹										✓				
Anthropology										✓				
Astronomy										✓				
Biochemistry	✓									✓				
Botany	✓	✓	✓	✓		✓	✓	✓		✓	✓			
Chemistry	✓	✓	✓	✓		✓	✓	✓		✓	✓			
Geography	✓	✓		✓			✓			✓				
Geology ²	✓	✓	✓	✓			✓	✓		✓				
Mathematics ³	✓	✓	✓	✓		✓	✓	✓		✓	✓			
Microbiology						✓	✓	✓		✓				
Physics	✓	✓	✓	✓		✓	✓	✓		✓	✓			
Physiology ⁴	✓					✓				✓				
Psychology	✓	✓								✓				
Statistics														
Zoology	✓	✓	✓	✓		✓	✓	✓		✓	✓			
BSc(Agro) and BSc(Hortic)														
BSc(Nutrition) & BSc(Household Sci)						✓						✓		
BSc(Architecture)										✓				

Courses in Faculty of Science
BSc(General) and
BSc(Special)

(For Notes, see p 959)

TABLE OF FIRST DEGREE COURSES AT SCHOOLS OF UNIVERSITY OF LONDON—continued

(For Notes, see p 959)

For an explanation of the symbols used, see p 959.		Bedford	Birkbeck	Imperial	King's	London School of Economics	Queen Elizabeth	Queen Mary	Royal Holloway	School of Oriental and African Studies	University College	Westfield	Wye	School of Slavonic and E. European Studies	Courtauld Institute of Art
Slavonic and E. European Languages														✓	
Sociology		✓				✓									
Spanish ⁷		✓	✓✓		✓✓			✓				✓			
Theology					✓										
War Studies					✓										
BA in Architecture											✓				
Courses in Faculty of Engineering— BSc(Engineering)	Aeronautical Engineering			✓				✓							
	Civil, Electr. & Mech. Engineering			✓	✓			✓			✓				
	BSc (Chemical Engineering)			✓							✓				
	BSc(Metallurgy)			✓											
	BSc(Mining) ²			✓											
Courses in Faculty of Economics	BSc(Economics)					✓					✓				
	BSc(Sociology)	✓				✓									
Courses in Faculties of Law Theology Medicine	Courses in Faculty of Laws ⁸				✓	✓				✓	✓				
	Courses in Faculty of Theology ⁹				✓✓										
	Courses in Faculty of Medicine— see notes 10-13														

NOTES TO TABLE

The symbol ✓ means that the subject mentioned may be studied for an honours or special degree. The symbol ✓ means that the subject mentioned may be studied as part of the course for a general degree.

Faculty of Science

1 ANATOMY. Students at King's Coll. must first enter the fac. of med. and pass the 2nd exam. for med. degrees. Courses also available at certain med. schools under similar conditions.

2. Special regus. are in force at Imperial Coll. for BSc (spec.) degree in mining geol. and in the technol. of oil.

3. Courses at Queen Elizabeth Coll. will be available from Oct. 1963.

4. PHYSIOLOGY. Courses also available to students who have completed their pre-clin. trig. at certain med. schools.

Faculty of Arts

5. PHILOSOPHY. The following courses are available for BA hons. degree — *Philos.* (not at London Sch. of Economics), *Philos. & econ.* (not at Birkbeck Coll. or King's Coll.), *Philos. & psychol.* (not at King's Coll. or London Sch. of Economics), *Hist. of philos.* is available for BA (gen.) degree. A course in *Philos. & Greek* will be introduced in 1960 for BA hons. degree.

6. HEBREW. Courses also available at Jews' College.

7. SPANISH available at Bedford Coll. by arrangement with King's Coll.

Faculty of Laws

8. Courses for LL.B. available at Sch. of Oriental and African Studies but students must register at other colls.

Faculty of Theology

9. Courses also available at New Coll. and at Richmond Coll.

Faculty of Medicine

10. Courses for degrees of MB BS available at the following schools — Charing Cross Hosp. Med. Sch., Guy's Hosp. Med. Sch., King's Coll. Hosp. Med. Sch., London Hosp. Med. Coll.; Middlesex Hosp. Med. Sch., Royal Free Hosp. Sch. of Med., St. Bartholomew's Hosp. Med. Coll., St. George's Hosp. Med. Sch., St. Mary's Hosp. Med. Sch., St. Thomas's Hosp. Med. Sch., University Coll. Hosp. Med. Sch., Westminster Med. Sch.

11. Courses for the BDS degree available at — Guy's Hosp. Dental Sch.; King's Coll. Hosp. Med. Sch., London Hosp. Med. Coll., Royal Dental Hosp. of London Sch. of Dental Surg., University Coll. Hosp. Med. Sch.

12. Courses for degree of bachelor of veterinary medicine available at Royal Veterinary Coll.

13. Courses for degree of bachelor of pharmacy available at Sch. of Pharmacy.

continued from p. 955

and pharmacol.) is normally taken 5 terms after passing the 1st exam. The course for the 3rd (final) exam. for med. degrees extends over 3 yrs. and is divided as follows: pt. I: pathol., pt. II: med., appl. pharmacol. and therapeutics; pt. III: surg., pt. IV: obstet. & gynaecol. Pt. I may normally be taken after 30 mos' course (in exceptional cases, after 24 mos.), but after completing the full 36 mos' clin. course a candidate must enter for all the pts of the exam which he has not already passed.

The univ. accepts certs for complete course of med. educn., incl. clin. med. and surg. from the following univs. outside the U.K.: Dalhousie, McGill, Toronto, Adelaide (with infimary), Melbourne (with Melb. and Alfred hosp.), Sydney (with infimary and Prince Alfred hosp.), New Zealand (with Dunedin hosp.), Ceylon, Malta and from the following Indian and Pakistan med. colls.: Grant (Bombay), Seth Gordhandas Sunderdas (Bombay), Bengal (Calcutta), Lahore Univ. Med. Coll., Lucknow Univ., Madras Univ. Med. Coll.

Candidates holding acceptable certs for courses of study and otherwise eligible may sit for 2nd and 3rd (MB BS) med. exams as external students. All exams must be taken in London, and candidates must have completed not less than 1 yr. of the course at an approved med. sch. in the U.K.

Higher degrees in med. & surg. PhD in med. MD consists of a thesis which may be submitted not less than 7 yrs. after obtaining full registration with the General Med. Council (4 yrs. in certain exceptional circumstances); a candidate must hold the MB BS degrees of the Univ. of London MS consists of a thesis which may be submitted not less than 5 calendar yrs. after candidate has obtained MB BS degrees of the Univ. of London.

BDS degree: the course for the BDS degree normally extends over 5½ yrs. The following exams are taken: 1st exam. for med. degrees after 1 yr.; 2nd exam. in dent. surg. (gen. anat., physiol. and sp. anat.), 1 yr. after passing 1st MB, 3rd exam. in dent. surg. pt. I (prosthetic dent.), 1 yr. after passing 2nd BDS, pt. II (med., surg., pathol. and bacteriol., pharmacol. and therapeutics), 28 mos. after passing 2nd BDS, pt. III (dent. surg. incl. sp. pathol. and orthodontics), 3½ yrs. after passing 2nd BDS.

MDS degree is open only to persons who have obtained BDS degree of this univ. as internal students. The exam. is in 2 pts., of which pt. I may be taken not less than 2 calendar yrs. and pt. II not less than 5 calendar yrs. after the candidate has obtained BDS degree. Pt. I of the exam. consists of 2 written papers in dent. surg. and pathol., and clin., oral and practical exams. Pt. II consists of a thesis. A candidate may also be examined orally.

BPharm degree: the final exam. is in two pts. Pt. I is taken at the end of the 2nd yr.'s course,

and includes pharmaceuticals, pharm. chem., pharmacognosy and pharmacol. Pt. II is taken at the end of the 3rd yr.'s course, and consists of any 2 of the following: pharm. chem., pharmacognosy, pharmacol., pharmaceuticals or pharm. engin. sci.

MPharm degree: a candidate must normally have obtained BPharm degree (revised regns.) of the univ. and pursue a course for not less than 2 yrs. (1 yr. for a candidate who obtained hon. at the BPharm exam. as internal student and offers for MPharm either of the subs. taken at pt. II of BPharm). MPharm is conferred in following subs.: pharm. chem., pharmaceuticals, pharmacol., pharmacognosy, or pharm. engin. sci.

BVetMed degree (internal only): the course for the BVetMed degree extends over 5 yrs. 1 term. The vet. pre-clin. exam. pt. I is taken after 3 terms' course at the Royal Vet. Coll. and the vet. pre-clin. exam. pt. II after a further 5 terms' course. The course for the final exam. for the BVetMed degree extends over 8 terms at the Royal Vet. Coll.

MVetMed degree (internal only): candidate must have obtained BVetMed of this univ. or BSc(VetSci) or some other degree of this univ. which is deemed suitable. Candidates with a degree in vet. med. or vet. sci. of another univ. may be required to pass a qualifying exam. All candidates must hold a qualif. which entitles to registration as vet. surgeon by Royal Coll. of Vet. Surgeons. Degree may be obtained either by exam. or thesis.

Diplomas. Academic postgrad. dipls. in animal health, bacteriol., clin. pathol. (also for external students), pub. health, trop. med. & hyg., 1 yr., in appl. parasitol. and entomol., 8 mos., in dietetics, 2 terms and 6 mos., practical work; psychological med. (pt. I after not less than 6 mos' course and pt. II after a course of study extending over 3 academic yrs.). For dipl. in nursing, see Extra-Mural Studies, below.

MUSIC The subs. for the inter. exam. are harmony and counterpoint, form and analysis, and hist. of mus. For the BMus exam.: harmony and counterpoint, fugue including canonic writing, orchestration, hist. of music, 2 sp. subs. selected by the candidate, oral exam. and practical test. For the DMus candidates must have obtained the BMus degree of the Univ. of London normally not less than 3 yrs. previously. There is a written and an oral exam. and a musical exercise.

ENGINEERING. The following degrees are conferred in the fac. of engin.: BSc(Eng); BSc(Eng) in chem. engin., BSc(Eng) in metall., BSc(Eng) in mining; MSc(Eng), PhD, DSc(Eng). The course of study for the final exam. for a bachelor's degree extends over not less than 3 yrs.* Before entry on a course of study for the final exam. for the BSc(Eng) degree or the BSc(Eng) degree in mining, internal and external candidates must pass at advanced level in pure maths. and appl. maths.

* External students are required to pursue the course at an institution recognized for the purpose unless excused by reason of approved trig. and experience elsewhere.

(or maths [pure and appl]) and phys and at ordinary level in chem at a G.C.E. exam or an approved equivalent, for the BSc(Eng) degree in chem engin and metall, chem and phys must be at advanced level but either pure or appl maths, if taken as 2 subsj, may be at ordinary level. Candidates who have passed at advanced level in 3 of the 4 subsj, pure maths, appl maths, phys and chem, may be allowed to enter on the course and to complete the entrance qualifs. by passing at the appropriate level in the 4th subj before taking any part of the final exam.

The gen. internal, sp. and external final exams in *engin* and *metall* and the external final exam in *mining* are divided into 3 pts. The gen. internal and external final exams in *chem engin* are divided into 2 pts, pt. I being divided into 2 sections. There are two sp. exams in *chem engin*, one divided into 2 pts, the other into 3 pts. There is a sp. exam in *mining*. The sp. exams are confined to internal students of certain schs of the univ.

Internal candidates for the MSc(Eng) degree are required to have graduated as internal students in the Univ. of Lond at least 1 yr (or in the case of other grads at least 2 yrs.) before entry to the MSc(Eng) exam, but grads of other univs are debarred by statute from proceeding direct to higher degrees as external students. The exam is by thesis or dissertation and there is an oral exam. The examiners may also require a written exam.

Internal and external candidates for the DSc(Eng) degree must have obtained in this univ. the BSc(Eng) degree, MSc(Eng) degree or PhD degree in the fac of *engin*. The degree is awarded only for public work of a high standard such as would give the candidate an authoritative standing in his particular field of res.

ECONOMICS *First degrees.* The following are awarded BSc(Econ). Normally 3 yrs. Prelim qualifs. candidates must have passed an inter, prelim. or first exam or possess a G.C.E. with 3 subsj at advanced level. The final exam is in 2 pts. Under revised regns, pt. I covers 3 compulsory papers (econ, British govt, hist. [econ hist or pol hist]) and 2 alternative subsj chosen from a list of 15. Pt. II consists of 8 papers as prescribed for each of 14 sp. subsj.

BSc(Soc) Normally 3 yrs. Prelim qualifs.: Candidates must have passed an inter, prelim or 1st exam or possess a G.C.E. with 3 subsj at advanced level. A candidate who has obtained a BA hons degree in sociol, or BSc(Econ) with sp. subj, sociol or soc. anthropol, will not be admitted. The final exam consists of 9 papers from 2 groups. Candidates must also pass in econ as a subsidiary subj.

BSc(EstMan) Normally 3 yrs. 1st exam in 4 subsj. No exemptions granted. Final exam consists of 11 papers chosen from either the urban group or the rural group of subsj. Course work must be submitted for both exams.

Higher degrees. The following are awarded MSc(Econ), MSc(EstMan), PhD, DSc(Econ).

Admission to master's degrees is normally 2 yrs. after passing the appropriate 1st degree. Candidates who have obtained the BSc(Econ) with 1st or 2nd class (upper div) hons as internal students may be admitted after 1 yr. They will be required to take the MSc(Econ) by 4 written papers and, at the discretion of the examiners, an oral exam. For the MSc(Econ) candidates are examined in 1 subj, to be selected from a lengthy list (4 papers or a dissertation and 2 papers). The MSc(EstMan) exam consists of 2 papers on a selected, approved general subj and a dissertation on an approved sp. subj.

DSc(Econ) Candidates must hold the BSc(Econ) or MSc(Econ) or BSc(Soc) or BSc(EstMan) or BCom or MCom or PhD in the fac of econ and must submit public work.

Diplomas Postgrad dipl in pub admin., normally 2 yrs., dipl in soc studies (external), normally 2 yrs.

SCHEMES OF SPECIAL RELATION WITH UNIVERSITY COLLEGES OVERSEAS These schemes originated in proposals made by the Commission on Higher Education in the Colonies which was apptd by the secretary of state in 1943 under the chairmanship of Mr. Justice, later Lord, Asquith. The report of the commission (cmd 6647 of 1945) explains the background to the proposals and the broad outline of the schemes. Their purpose is to enable univ colls, during their transition to full univ status, to enter their students for degrees of the Univ of London which are awarded upon the results of special exams. The syllabuses of these exams are adjusted to the geographical, linguistic and educul conditions of the territory, but represent no relaxation in the standards of the univ.

Certain conditions are laid down limiting the admission of univ colls to these schemes. A coll must satisfy the univ that its staff, resources, equipment and machinery of government are appropriate to an instr. aspiring to univ. status, and in particular that it possesses an academic body charged with the duty of formulating academic policy. This policy must include the encouragement of the pursuit of a regular and liberal course of educn. and of a corporate life among its students, the promotion of res on the part of staff and postgrad students, and willingness to accept the responsibilities of intellectual leadership in the community it serves. The conditions for the admission of students must also be considered appropriate.

The main objects of these schemes of 'special relation' may be summarized as follows. (1) the establt. of direct and easy co-operation between the academic boards of the overseas colls and the univ, (2) the institution of a regular system of consultation between the authorities of the univ and the staffs of the colls. on questions of syllabus and exam requirements, (3) the promotion of personal contact between the examiners appointed by the univ and the teachers in the colls., (4) the participation by members of the staff of the colls in the actual work of examining their own students, (5) the interchange of visits and the

giving of assistance and advice by the univ on such matters as the colls. overseas may desire

There are at present schemes with the Univ Coll. of the West Indies, Univ Coll, Ibadan, Nigeria, Makerere Coll, the Univ Coll of East Africa, the Royal Coll, Nairobi, the Univ Coll of Rhodesia and Nyasaland

Each set of exam regns has been approved by the senate of the univ. on the initiative of, or in consultation with, the individual coll concerned All exams, held at a coll. are conducted in accordance with the regns. approved for that coll.

POSTGRADUATE STUDY AND RESEARCH In most schs. of the univ. sp arrangements are made for res students, and the facilities offered are not restricted to internal grads of the univ External grads and grads. of other approved univs are allowed, under certain conditions, to enter as internal students for the degree of bachelor or of PhD in the several facs, and for the degree of MTh, MA, LL.M, MSc or MSc(Eng) Every candidate must submit evidence of graduation, etc., together with a cert. from the authorities of the sch. or institution of the univ. at which he proposes to study, stating that the student is, in their opinion, a fit person to undertake the proposed course of study and res, and that they are willing to supervise his work An overseas student may himself submit an applicn on the prescribed form, and the univ will, if so requested, advise on the selection of the sch. or institution at which, and teacher under whom, he should study Applicn. for such advice should be addressed to the academic registrar of the univ. Overseas students should apply for registration before coming to London, and their applicns should reach the univ. if possible 12 mos before the commencement of their course, and at the latest by March 1, to enable them, should their applicns be successful, to enter upon their course of study in the following Oct, i.e. at the beginning of the session Students whose applicns are approved are required to pursue a course extending over at least 2 yrs

An internal student who is a candidate for the PhD degree must have graduated in the univ or have been registered as a candidate for the degree after passing approved exams. for a degree in another univ. An internal student is further required to pursue a course of study of not less than 2 yrs' full-time, or 4 yrs' pt-time, training in res and res methods Any grad. of the univ may become a candidate for the PhD degree in his first degree fac as an external student on receiving the approval of the council for external students It should be noted that only grads. of the Univ of London may register as external students for a master's or PhD degree

FEES *Registration* (non-recurrent and incl. matric)—internal normal 1st degree 3 gs., postgrad. 6 gs., external normal degree 5 gs., postgrad. 2 gs., advanced students 5 gs. *Exam. fees* (no graduation fees)—arts and sci., from £18 to £20, med, vet. med, and dent., from £33 to

£47 Details of annual tuition fees are given in the sections relating to the schs., below

ACADEMIC YEAR for univ and inter-collegiate courses, 1961-62: Oct 4-Dec 13, Jan 10-March 21, April 25-July 4 1962-63 Oct. 3-Dec. 12, Jan. 9-March 20, April 24-July 3.

Particulars of UNDERGRADUATE SCHOLARSHIPS, etc., awarded on the results of exams held by the London Intercollegiate Scholops Bd., may be obtained from the sec of the bd, R B P Wallace, LLB MA, Univ of London, Senate House, WC 1.

POSTGRADUATE AWARDS open to grads. of other univs, see p. 808

BOTANICAL SUPPLY UNIT, Elm Lodge, Englefield Green, Surrey The univ botanical supply unit was establd in 1950 to provide schs and instns of the univ. with bot material The grounds now cover an area of about 15 acres The unit is able to produce a large variety of material in bulk for class purposes, and numerous specimen plants can be lent to schs and instns for class demonstration It is also able to supply some types of material for res Curator J I H Rees, BSc

COMPUTER UNIT, 44 Gordon Square, WC 1 The Univ of London computer unit is equipped with a Ferranti Mark II Mercury computer Dir. R A Buckingham, PhD

ADVISORY SERVICE FOR EXTERNAL STUDENTS Any external student who is duly registered for an external degree or dipl. and experiences any difficulty in connexion with the appropriate studies may apply to the external registrar for guidance. Such guidance may take the form of detailed schemes of study or personal discussion with an adviser

The **COMMERCE DEGREE BUREAU** exists to help in their studies external (especially extra-London) students proposing to take the BSc(Econ) degree (for which postal courses of study may be provided), to provide a reference and lending library for students and generally to promote the value and usefulness of the degrees The bureau is administered by a senate cttee Prospectus and enquiry forms obtainable on applicn to the sec, Commerce Degree Bureau, Senate House, WC 1. Tel. Museum 2843.

ADVISER TO OVERSEAS STUDENTS Students from outside the British Isles may obtain general information, advice on personal problems and in emergencies, from the Univ of London Adviser to Overseas Students, Univ of London Union, Malet St., WC 1 Tel. Langham 5035

The **UNIVERSITY APPOINTMENTS BOARD** exists to obtain appts. for grads. Address: 49 Gordon Square, WC 1 (tel.: Euston 7489)

RESIDENCE (For wardens, see 'Admin and Other Staff', p 950) Halls of residence provided by the senate Canterbury Hall, Cartwright Gardens, WC 1 (tel. Euston 5526), for 218

women students (fees, £135 15s and £145 10s per session of 30 weeks), Connaught Hall, Tavistock Sq., WC1 (tel. Euston 6181), for 196 men students (fees, £140 per session of 30 weeks), and Nutford House, Brown St., W.1 (tel. Ambassador 4431), for 190 women students (fees, £120 and £135 per session of 30 weeks). Other hall of residence recognized by the senate. College Hall, Malet St., WC1, for 220 women students (fees, £132.6s and £148 1s per session).

Residence is also provided at or in connexion with the Inst of Educn, Imperial Coll., King's Coll., London Sch of Econ, Queen Mary Coll, Univ. Coll and Wye Coll, Guy's, London, Middlesex, St. Bartholomew's, St Mary's, St Thomas's, Univ. Coll. Hosp med schs and Westminster Med Sch, the theol colls and the women's colls (see coll. entries). London House, Guilford St., WC1, provides accomm for 275 Commonwealth men students, including some from the U.K.

LODGINGS BUREAU, Univ of London Union, Malet St., WC1 (tel. Museum 2818). Enquiries to be addressed to the lodgings officer.

MILITARY EDUCATION War studies is one of the optional subs. for the final BA (general) for internal students only.

The Univ of London contingent of the OTC, authorized by the Army Council in 1909, is open to internal students, both men and women. Its main purpose is to train students for commissioned service in the army. Information from the adjutant, Univ of London contingent, OTC, Yeomanry House, Handel St., WC1 (tel. Terminus 3118).

AIR SQUADRON The Univ of London air squadron was founded in 1935 by the Air Ministry with the assistance of the univ authorities. Its main object is to promote a serious interest in flying and its allied subs. Applicants for membership should be addressed to the sec., U of L Air Squadron, 48 Princes Gdns, S.W.7 (tel. Kensington 2433).

UNIVERSITY UNION (founded 1921), Malet St., WC1 (tel. Langham 9551). Most of the schs and colls of the univ. also have their own unions. The univ. athletic ground is at Motpur Park, Surrey (tel. Malden 0661), and the univ. boat-house at Hartington Rd., Chiswick (tel. Chiswick 5562).

EXTRA-MURAL STUDIES The area of operation of the council for extra-mural studies includes the counties of London, Middlesex and Surrey, S-W Essex and S. Hertfordshire, and the county boroughs of Croydon, E. Ham, W. Ham and Southend-on-Sea. The work is divided into 4 sections and the chief admin. officers of the dept. are dir. of dept. — — — — —; dep. dir. (extension) — C. P. Thomas, BA *Wales*, dep. dir. (tutorial classes) — F. G. Brook, BSc(Econ) PhD, hd of vocational dipls section — R. A. S. Knowles;

hd of sp. courses section — Winifred Bamforth, MA.

(a) *Univ. Extension Courses* have been carried on since 1902 (prior to that, 1876–1902, by the London Soc. for the Extension of Univ. Teaching). The sessal and terminal courses provided cover various fields of knowledge — archaeol., hist., lit., econ., sociol., bibl. studies, internat. affairs, music, visual arts, geog., transport studies, phys. and biol. sci., and allied subs. Short courses of a pioneer or illustrative kind are also arranged. An exam is held, where reqd., at the end of a sessal course. Continuous study is encouraged by the *dipls. in the humanities* (hist., lit., econ., sociol., hist. of art, biblical and relig. studies, internat. affairs, visual arts, archaeol., hist. of music) awarded to students who complete approved courses of study, usually covering 4 yrs, and pass annual exams and by 3-yr course for the *cert. in transport studies*. Provision is made, where required, for post-dipl. study. Vacation courses and study tours at home and abroad are arranged. More than 30 week-end courses are held each yr. Work is carried on mainly by pt-time lectrs. There is a staff lectr. in phys. sci. — H. G. Frost, BSc.

(b) *Tutorial Classes* have been provided since 1909 in close co-operation with the WEA. The classes extend over 3 yrs, usually with a max. membership of 24 students. Sessal classes and advanced classes lasting one session are also provided. Summer schs. and week-end courses are held each yr. There are no exams but all students undertake to do written work arranged with the tutor to suit individual needs. The subs. include archaeol., art, econ., hist., internat. relations, lit., music, philos., pol. and psychol. Work is carried on partly by pt-time tutors but also by staff tutors — G. Bush, MA DMus *Oxon.*; D. Butt, BA *Oxon.*; J. P. Carruthers, MA *Glas.*; P. J. Cronin, BA *Brnst*, BLitt *Oxon.*; E. M. Eppel, MA EdB *Glas.*; H. Fyrrh, BSc(Econ); W. J. A. Harris, BA *Wales*, MSc(Econ); Mrs. Joy MacAskill, MA BLitt DipEd *Oxon.*; Elizabeth Monkhouse, BA *Oxon.*, DUPatners, L. Speak, MA *Leeds*; Lois Spencer, BA *Oxon.*, PhD, L. G. Stone, BSc(Econ), C. G. Stuttard, MA *Camb.*, J. R. Williams, BA *Leeds*.

(c) *Vocational Dipls. and Certs.* The council for extra-mural studies also administers the following dipls and certs which are, broadly speaking, vocational in purpose: dipls. in dramatic art, nursing, theol. and sister-tutor's dipl., certs. of proficiency in diction & drama, Engl. for foreign students*, mod. foreign langs., natural hist. and religious knowledge.

Exams are held once a yr. in London and, in certain cases, also in the provinces and overseas. An annual 4-wk. residential summer course in Engl. for foreign students is held, designed to widen the student's knowledge not only of contemporary Engl. lang. and lit. but of Engl. instns. and art, by means of lectures, classes and visits.

* The Univ. of Cambridge Local Exams. Syndicate also awards a cert. of proficiency in Engl., see p. 875.

(d) An annual residential summer school, lasting 6 wks, is held for American, Commonwealth and European students (grad. or sr. undergrad) as part of a programme arranged jly with other univs. The programme usually includes courses in lit, hist, art.

(Further information and copies of regns may be obtained from the actg dir, dept of extra-mural studies, Univ. of London, Senate House, WC 1)

SCHOOL EXAMINATIONS. The univ. conducts exams. for the General Cert of Educn. for candidates in approved schs., and for private candidates.

The exam is held at the ordinary and the advanced levels in June and in Jan, and scholarship papers are set in conjunction with the advanced level June exam. There are no group requirements, and candidates may offer one or more subsys up to certain maxima.

The univ. is prepared to hold the exam. at schs and for private candidates overseas, provided that from schs in other parts of the Commonwealth, the applcn. is received through the govt, or in the case of schs in foreign countries, through H M representative.

Regns (price 1s 6d) are obtainable from the Univ of London publicns. dept., 1 Malet St., WC 1.

OFFICIAL PUBLICATIONS. The following are

obtainable from the Univ of London publicns dept., 1 Malet St., WC 1

Calendar, 21s incl postage. *Gazette*, 9 issues per yr; annual sub., 10s, single no., 1s 3d, incl postage. *Annual Report by the Principal Univ. of London Act*, 1926, and *Statutes*, 3s. 6d. *Exam. Papers*, publ. as soon as possible after the several exams, prices vary from 6d to 5s.

Regulations The following may be obtained on applcn to the central office of the univ regns for internal and for external students (publ. separately) for degrees in arts, sci, agric, etc, for the various dipls and certs in sp subsys, for PhD degree; schols pamphlet, pamphlets of *General Information* for internal students and for external students

ATHLONE PRESS, 2 Gower St., WC 1 (tel. Langham 9535-6) The press was established in 1950, its functions being to publish univ. lectures, the work of grads of the univ and of teachers of the univ or of its schs and central institutions, and such other works as the bd of management may accept

UNIVERSITY BOOKSHOP. In conjunction with Miss Una J Dillon, the univ. has formed a company, trading under the name of Dillon's University Bookshop Ltd, to operate a bookshop at 1 Malet St., WC 1 (tel. Museum 2128) The bookshop is designed to meet in particular the needs of students and others who are sitting for the exams. of the univ

THE YEAR 1960

PRINCIPAL BENEFACTIONS Estate of Isobel Thornley, £22,000 for hist studies; estate of H C Chapman, £14,000 for study of British Commonwealth; Turner & Newall Ltd, £14,000 over 7 yrs for res fellowships

NEW CHAIRS Bedford Coll. mediev hist *Birkbeck Coll.* stats., theoret phys *Imperial Coll* electr engin, cloud phys, chem technol *London Sch of Econ.* soc admin *Sch of Oriental & African Studies*. W African langs, phonetics *Univ Coll* phys *Charing Cross Hosp Med Sch.* med *Guy's Hosp Med Sch* paediatric res *Middx. Hosp Med Sch* psychiatry *St. Bart's Hosp Med. Coll.* bacteriol *St. George's Hosp Med Sch* psychiatry *St Mary's Hosp Med Sch* obstet & gynaeol *Westminster Med Sch* med *Inst of Dermatol* dermatol

HONORARY DEGREES DLit—Prof Sir John Neale, former Astor Prof of Engl. hist, Lond *LLD*—The Countess of Albemarle, the Rt Hon Lord Denning; Sir George Gater, Admiral of the Fleet the Rt Hon the Earl Mountbatten of Burma *DSc*—Prof Sir David Brunt, former prof. of meteorol., Lond *DSc*—on fellows or foreign members of Royal Society to commemorate its tercentary and centenary of award of first degrees in sci. by the univ. H.M. King Gustaf

VI Adolf of Sweden, Prof H J Bhabha, dir and prof of exper phys, Tata Inst of Fundamental Res, Bombay, Prof D W Bronk, pres, Rockefeller Inst, and pres, National Academy of Sci, Sir Macfarlane Burnet, dir, Walter and Eliza Hall Inst for Med Res, Melbourne, and prof of exper med, Melb, Prof G C de Hevesy, Forskning Inst for Org Chem, Sweden, Sir Thomas Melton, treasurer, Royal Society, 1939-56

Statistics

STUDENT NUMBERS Registered internal students for session 1959-60 25,899 (19,765 m., 6,134 w, 21,385 full-time, 4,514 pt-time students) Included in this total are 5109 postgrad students

Students from other countries, 4020 (Countries from which largest numbers came: India, 718, Nigeria, 362, U.S.A., 179, Poland, 178, Pakistan, 171; Canada, 165, South Africa, 128; Ceylon, 125, Iraq, 120, Ghana, 118, Australia, 106, British W Indies Fed., 106)

Registered external students for session 1959-1960. 25,554 Prelim exams 6506 Degree and dipl exams tech. colls., 4541, other instns, 1254, correspondence colls., 3383, private study, 1694, students resident abroad,

3660 Colonial univ colls (inter and final).
2854 Higher degrees (master's and PhDs), 1662.

Number of full-time students in schs of the
univ and senate insts (based on U G C. returns)*
in 1959-60 21,697 (15,637 m, 6060 w) of
these, 4911 were 1st-yr admissions (3443 m,
1468 w)

INTERNAL DEGREES AWARDED (1959-60) Arts
first degrees, 922, *master's degrees*, 70, *PhD*, 76
Econ. 366, 41, 35 Engin. 771, 37, 65. Laws
175, 20, 3 Med 799, 10, 45 Music 7, 0, 0
Sci. 1284, 134, 364 Theol 45, 0, 1

EXTERNAL DEGREES AWARDED (1959-60) Arts

first degrees, 457, *master's degrees*, 12, *PhD*, 7
Econ 227, 5, 4 Engin 214, 2, 6 Laws
116, 8, 0 Med 38, 0, 5 Music 4, 0, 0
Sci 416, 20, 68 Theol 108, 2, 1

HIGHER DOCTORATES AWARDED (1959-60) Arts,
2; econ, 1; engin., 4; med, 30, music, 2,
sci, 42, theol, 1

STUDENT NUMBERS (October 1960) *See under*
Schools and Institutions, *below*

* *University Grants Committee Returns from Universities and University Colleges in Receipt of Treasury Grant, Academic Year 1959-60* Cmnd 1439 (H M S O, 1961)

UNIVERSITY INSTITUTES

[Information compiled as at 17/7/61]

COURTAULD INSTITUTE OF ART

Founded 1932

Postal Address. 20 Portman Square, London, W 1, England

Cables and Telegrams. Courtauld Institute, 20 Portman Square, London, W.1

Telephone Welbeck 1388-9

CHAIRMAN OF MANAGEMENT COMMITTEE—Professor LORD ROBBINS, CB, MA *Oxon*, Hon DLitt *Durh & Esse*, Hon LHD Col, Hon LLD *Camb*, *Leic. & Stras*, Hon D1 *T U Lisbon*, BSc(Econ), FBA

DIRECTOR—Professor Sir ANTHONY BLUNT, KCVO, PhD MA *Camb*, FBA, FSA

DEPUTY DIRECTOR—G. ZARNECKI, MA *Cracow*, PhD, FSA

REGISTRAR—C CLARE

LIBRARIAN—

TEACHING STAFF

Art, History of		Bowness, A, MA <i>Camb</i>	Asst Lectr
The Director	Prof.	Shearman, J, PhD	Asst Lectr.
The Deputy Dir	Reader	Martindale, A., MA <i>Oxon</i>	Asst Lectr.
Whinney, Margaret D, DLit, FSA	Reader		
Zarnecki, G, MA <i>Cracow</i> , PhD, FSA	Reader	Technology of Art, History of	
Hohler, C., MA <i>Oxon</i> , FSA	Lectr		Prof.
Kitson, M., MA <i>Camb</i>	Lectr.	Rees-Jones, S, MSc, FSA	Sr. Lectr

ADMINISTRATIVE AND OTHER STAFF

Conway Librarian · P Kidson, PhD, FSA	Books · Lillian Guriy, BA. Gallery Curator.
Witt Librarian · P Murray, PhD, FSA	P O Troutman, BA
Slide Librarian · Agnes Wyatt, BA	<i>Mane</i>

GENERAL INFORMATION

Opened to students in 1933, as the result of a gift of £100,000 for bldgs and partial endowment by Mr. Samuel Courtauld, and of gifts by Sir Joseph Duveen and Sir Herbert Cook. Other benefactions incl a gift by the late Alderman J. G.

Graves, the bequest of his estate by the late Mr Norman Wilkinson of Four Oaks (with which a scientific dept and lab. have been establd) and the Witt collection of drawings and Witt library of reproductions bequeathed by Sir Robert Witt

The present headquarters of the inst., one of the finest examples of the work of the brothers Adam, is also a gift from Mr. Courtauld, and is open to visitors during vacation and at certain other times by appt. When the headquarters of the inst. are moved to Woburn Sq. in Bloomsbury, 20 Portman Sq. will remain the official residence of the dir. and a centre for spec. studies.

The galleries of the inst., situated over the Warburg Inst. in Woburn Sq., are open to the public. They incl. important collections of paintings and drawings bequeathed by Lord Lee of Fareham, Samuel Courtauld, Roger Fry and Sir Robert Witt.

The inst. is a univ. dept. concerned with teaching and res. in the hist. of art (European).

LIBRARY 25,386 vols. and 20,984 pamphlets, slide collection and Conway library of photographs. The Witt Library of reproductions is housed in the inst. at 20 Portman Sq.

ADMISSION See p. 953 and Appendix III

FIRST DEGREES (of Univ. of London) In hist. of art—BA (hons.) (3 yrs.)

HIGHER DEGREES (of Univ. of London) In hist. of art—MA (2 yrs. from BA), PhD (2 yrs.).

DIPLOMAS (of Univ. of London) In hist. of art—postgrad. dipl. (2 yrs.)

CERTIFICATES Inst. cert. in hist. of art (awarded on results of exam. based on lectures open to public)

RESEARCH Res. students accepted and a number of lectures are given to which the gen. public are admitted.

FEES For full-time undergrad. and dipl., £45 p.a., full-time postgrad., £25 p.a. Fees for pt.-time students or for public lectures on applicn. to the registrar.

PUBLICATIONS. *The Bibliog. of British Art; Prospectus*, in assocn. with the Warburg Inst., *Journal of the Warburg and Courtauld Insts.*

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	41	16
Women	69	58
Total	110	74

All students are in fac. of arts

Included in the figures above are —

Postgraduate students, 81

New admissions, 109

Students from other countries, 62 (Countries from which largest numbers came: U.S.A., 24, Canada, 13, South Africa, 6, Australia, 4)

DEGREES AWARDED (by Univ. of London) (1959-60) BA (hons. hist. of art, 13, PhD, 1)

DIPLOMAS AWARDED (by Univ. of London) (1959-60) Postgrad. academic dipl. in hist. of art, 3

CERTIFICATES AWARDED (1959-60). Inst. cert. in hist. of art, 4

[Information compiled as at 31/8/61]

INSTITUTE OF ADVANCED LEGAL STUDIES

Founded 1948

Postal Address . 25 Russell Square, London, W.C.1, England

Cables and Telegrams Institute of Advanced Legal Studies, 25 Russell Square, London, W.C.1

Telephone : Langham 4868

CHAIRMAN OF COMMITTEE OF MANAGEMENT—Professor Sir DAVID HUGHES PARRY, QC, MA Camb., Hon. DCL McG, Hon. LLD Birm., Br. Col., Camb., Hull, New Br., Wales & W. Ont.

DIRECTOR—Professor J. N. D. ANDERSON, OBE, MA LLD Camb.

SECRETARY AND LIBRARIAN—K. H. DRAKE, MA Camb.

U.K.—ENGLAND (LONDON)

GENERAL INFORMATION

The inst was establ as pt of the post-war expansion of the Univ of London and occupies premises near the Senate House. Its aim is to act as a focal point for legal res, to provide seminar classes for students reading for higher degrees in law at a sch of the univ, and to build up a good working res library in law. The inst. has collated particulars of legal res undertaken in Britain and the Commonwealth, and is in a position to pass this information on to res workers and other enquirers. An annual list of topics in progress is prepared.

Teaching at the inst is undertaken by members of the law teaching staffs of colls and schs in the univ with a fac of laws, in addn, to the dir of the inst.

LIBRARY The library now consists of over 60,000 items. The inst has acquired practically all U.K. law reports and statutes and basic works, particularly those of use for seminar purposes. Through continued purchases made possible by the generous gift from the Nuffield Foundation, the Nuffield library of Commonwealth law is nearing the stage when it can be regarded as comprehensive. The U.S. holdings continue to increase. Over 100 U.S. law reviews are received regularly, about two-thirds of which are not known to be taken elsewhere in Britain. Earlier vols. are being acquired whenever possible.

FIRST DEGREES No courses provided for first degrees.

ADMISSION. Admission to the inst. may be granted, without fee, to teachers of law in univs and univ colls, both in the U.K. and overseas, and to teachers in other law schs who are qualified to become members of the Soc of Public Teachers of Law, to postgrad students engaged on approved res, and to other univ students attending

a class or seminar at the inst; and to other persons by permission of the dir. Persons who already hold a res degree or have publ the results of their researches, or have had considerable trg or practical experience in the law, may be admitted to the use of the inst, either on payment of a fee, or without fee, if duly invited and willing to assist in the work of a seminar held at the inst.

Postgrad students, whether reading for a degree or dipl or not, must register at a coll or sch of the univ with a fac of laws (i.e. at King's Coll, Univ. Coll, L.S.E. or the Sch of Oriental and African Studies). When so registered, they will become eligible, on the recommendation of their teachers, for admission to the inst.

PUBLICATIONS *Annual Report* presented to the senate, annual and consolidated lists of *Legal Research Topics* in British and Commonwealth univs, *Univ of London Legal Series*, library publications: No 1, *A Survey of Legal Periodicals Union Catalogue of Holdings in British Libraries* (2nd edn, 1957, 178 6d), No 2, *Union List of Commonwealth Law Literature in Libraries in Oxford, Cambridge and London* (1952, 0/p), No 3, *Union List of United States Law Literature in Libraries in Oxford, Cambridge and London* (1954, 128 6d, 0/p), No 4, *Union List of Air Law Literature in Libraries in Oxford, Cambridge and London* (1956, 128 6d). Jointly with the U.K. National Cttee of Comparative Law: *A Bibliographical Guide to the Law of the U.K., the Channel Islands and the Isle of Man* (1956, 308, interleaved copies, 36s). *A Manual of Legal Citations Pt I: The British Isles* (1959, 21s), *Pt II The Commonwealth* (1960, 21s). In co-operation with the American Assocn of Law Libraries *Index to Foreign Legal Periodicals* (1960—3 quarterly issues with annual cumulation, annual sub £9).

THE YEAR 1960

Statistics

Students admitted 250 (all postgraduate)

Of these, 166 came from other countries
(Countries from which largest numbers came:

India, 47, U.S.A., 27, Canada, 13, Iraq, 10;
Israel, 10)

Other persons using the inst during the year,
149

[Information compiled as at 18/8/61]

INSTITUTE OF ARCHÆOLOGY

Founded 1934

Postal Address: 31-34 Gordon Square, London, W.C.1, England

Telephone Euston 6052

CHAIRMAN OF MANAGEMENT COMMITTEE—S. W. WOOLDRIDGE, CBE, DSc, FRS

DIRECTOR—Professor W. F. GRIMES, CBE, MA, Wales, FSA

SECRETARY—E. PYDDOKE, FSA

TEACHING STAFF

[†=Part-Time]

Archæology		Cornwall, I. W., PhD	Lectr.
Grimes, W. F., CBE, MA <i>Wales</i> , FSA		Waechter, J. d'A., PhD <i>Camb.</i> , FSA	Lectr.
	Prof, Dir of Inst		
Archæological Drawing and Surveying		Indian Archæology	
Stewart, H. M., BA	Lectr	Codrington, K. de B., MA <i>Camb</i>	†Prof.
Archæology of Roman Provinces		Prehistoric European Archæology	
Frere, S. S., MA <i>Camb</i> , FSA	Reader	Evans, J. D., MA PhD <i>Camb</i> , FSA	Prof
		Hodson, F. R., MA PhD	Lectr
Conservation of Archæological Materials		Western Asiatic Archæology	
Gedye, Ione, BA	Lectr	Mallowan, M. E. L., CBE, MA <i>Oxon</i> ,	
Hodges, H. W. M.	Lectr	DLit, FBA, FSA	†Prof.
Environmental Archæology		Kenyon, Kathleen, CBE, MA <i>Oxon</i> , DLit,	
Zeuner, F. E., PhD <i>Bres.</i> , DSc, FSA	Pfoc	FSA, FBA	Lectr
		Parker, Barbara, FSA	†Lectr
Instructor in Photography		Cookson, M. B.	

GENERAL INFORMATION

Equipment provided for study of archæol of western Europe (incl British Isles) and n.r. east Teaching collections, incl notably Petrie Palestinian collection, available to students

LIBRARY 8000 books, some 5500 pamphlets and 8600 vols of periodicals on British, European and Asiatic archæol available to students and inst members

FIRST DEGREES No courses provided for first degrees.

HIGHER DEGREES (of Univ of London). MA, MSc and PhD in archæol. subjs

DIPLOMAS (of Univ. of London) Normally 2

ys academic postgrad dipls in European, Indian, prehistoric, Roman archæol and (normally 3 yrs) western Asiatic archæol

OTHER COURSES Tuition is also provided in archæol technique, incl excavation methods, repair and preservation of archæol objects, draftsmanship, surveying and photography Courses of lectures, open both to students and to the general public, are given in a wide range of archæol subjs

PUBLICATIONS *Handbook* (free), *Bulletin* (10s), *Occasional Papers*

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time	Occasional
Men	22	7	3
Women	33	11	12
Total	55	18	15

Included in the figures above are —

Postgraduate students, 47

New admissions (dipl and higher degree), 14.

Students from other countries, 26. (Countries from which largest numbers came Australia, 4, U.S.A., 4)

HIGHER DEGREES AWARDED (by Univ of London) (1959-60). MA, 1**DIPLOMAS AWARDED** (by Univ of London) (1959-60) Prehist archæol, 2, European archæol. (prehist), 1, European archæol (Roman), 1, archæol. of Western Asia, 2.

[Information compiled as at 18/8/61]

INSTITUTE OF CLASSICAL STUDIES

Founded 1953

Postal Address 31-34 Gordon Square, London, W C 1, England

Telephones Office, Euston 7696, Library, Euston 7697

CHAIRMAN OF MANAGEMENT COMMITTEE—P. S. NOBLE, MA *Aberd & Camb*, Hon LLD *Aberd*.DIRECTOR—Professor E. G. TURNER, MA *Oxon.*, FBASECRETARY—ALICIA M. TOTOLOS, BA *Syd*LIBRARIAN—JOYCE E. SOUTHAN, BA *Mane*

GENERAL INFORMATION

The objects of the inst. are to promote the advancement of the study of the classics, to provide opportunities for contacts between scholars in the classical field, both within the univ. and from other centres of learning at home and abroad, and to arrange facilities for advanced study and res. and for the trg. of postgrad. students in classics and cognate subjects.

The Hellenic and Roman socs. are associated with the inst. Both are housed in the same premises, and their libraries are complementary to each other. The combined library numbers 36,000 vols. (including over 200 current periodicals) and forms a first-class tool of classical res.

FIRST DEGREES No courses provided for first degrees

ADMISSION Free admission is granted to

teachers and postgrad. students of London Univ. and of univs. and univ. colls. in the U.K. and Commonwealth, and to ex. scholars from elsewhere by invitation.

The inst. has no students except those registered in other schs. of the univ., and teaching at the seminars is done by teachers in those schs.

FEEs For teachers and postgrad. students from outside the Commonwealth the fees are 10s. for 3 mos., £1 for 6 mos., £2 for a yr.

POSTGRADUATE AWARDS open to grads. of other univs. see p. 808

PUBLICATIONS *Prospectus* (free), *Annual Report*, *Bulletin* (annual, July, £1) incl. a register of advanced res. in progress, *Bulletin Supplements* (various)

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

Men	24
Women . .	16
Total	40

All students are postgraduate and in fac. of arts.

Included in the figures above are —

New admissions, 23

Students from other countries, 14

[Information compiled as at 15/8/61]

INSTITUTE OF COMMONWEALTH STUDIES

Founded 1949

Postal Address: 27 Russell Square, London, W.C.1, England

Telephone Langham 5876

CHAIRMAN OF COMMITTEE OF MANAGEMENT—Professor DAME LILLIAN M. PAINSON, DBE, Hon. LLD
Camb, *Leeds*, *McG*, *St And & S'ton*, Hon. DLit Belf, Hon. DLitt Sheff & W Ont, Hon. DCL
Oxon, PhD

DIRECTOR—Professor K. E. ROBINSON, MA *Oxon*, FRHistS

SECRETARY—T. E. SMITH, OBE, MA *Camb*.

ASSISTANT SECRETARY—Miss P. DEVONALD, BA *Lond*

LIBRARIAN—Miss V. BLOOMFIELD, BA *Lond*

RESEARCH FELLOWS—D. AUSTIN, BA *Lond*, MARY BULL, BA *Syd*, S. U. KODIKARA, MA *Denver*,
 T. H. SILCOCK, MA DPhil *Oxon*, D. P. J. WOOD, MA PhD *Camb*

GENERAL INFORMATION

The inst. was established in 1949 to promote advanced study of the Commonwealth. Its field of interest is primarily, but not exclusively, that of the social sciences. It encourages collaboration at postgraduate level between workers who are employing different techniques of research in the study of Commonwealth problems. It provides a meeting-place both for postgraduate students and members of the academic staffs of universities and research institutes in the U.K. and overseas countries of the Commonwealth. Seminars are held for advanced students during the university terms. Admission to them is on recommendation by supervisors of studies or at the discretion of the director. Meetings on special topics are arranged during university terms for members of staff and other specially invited persons.

LIBRARY Approx. 29,350 vols and papers. The library does not set out to compete with the great collections but selects material of special value for research and postgraduate teaching. It places particular emphasis upon primary material relating to government, economic and social development, race relations and demography, and with this object it acquires official publications, statistics, guides to archives, etc., of the U.K. and other Commonwealth countries. It is also acquiring a good selection of secondary works on the development of the Commonwealth during

the past century. It subscribes to periodicals of significance for the study of the Commonwealth.

A strong bibliography section is being built up by the acquisition of bibliographies, indexes to periodical literature, guides and indexes to official publications and parliamentary papers of the U.K. and Commonwealth countries, and similar aids to research. A bibliography of bibliographies in the library and a register of deposited theses in London and other U.K. universities are maintained.

ADMISSION The following persons may be admitted to the institute: graduate research workers and members of the academic and senior administrative staff of the University of London and of other universities and universities in the U.K. and Commonwealth, other persons approved by the director or committee of management. Forms of application may be obtained from the assistant secretary.

FIRST DEGREES No courses provided for first degrees.

PUBLICATIONS The institute publishes an *Annual Report* and a series of *Commonwealth Papers*, and issues a series of *Reprints*; a *Guide to Resources for Commonwealth Studies* and a *Union List of Commonwealth Newspapers* have also been published.

THE YEAR 1960

Persons admitted to the institute 232 (71 university teachers, 71 research students, 90 others)
 Students from other countries, 118 (Countries

from which largest numbers came: U.S.A., 21, India, 11, W. Indies Fed., 11, Nigeria, 10, Canada, 8)

U.K.—ENGLAND (LONDON)

[Information compiled as at 18/8/61]

INSTITUTE OF EDUCATION

Founded 1902

Postal Address . University of London Institute of Education,
Malet Street, London, W C 1, England
Telephone and Telegrams Museum 1500

CHAIRMAN OF COUNCIL—General Sir RONALD ADAM, GCB, DSO, OBE

DIRECTOR—H L. ELVIN, MA *Camb.*DEAN—Professor W. R. NIBLETT, BA *Brist.*, BLitt *Oxon.*SECRETARY—C. W. DIXON, MA *Durh.*, BLitt *Oxon.*, PhD

DEPUTY SECRETARY—KITTY M. EGAN, BA

REGISTRAR—CLARE J. HENRY

LIBRARIAN—D. J. FOSKETT, MA, FLA

ADVISER TO OVERSEAS STUDENTS—S. J. WORSLEY, DSO, MC, TD, Hon MA *Oxon.*, Hon LLD *Evs.*, BA

CONSTITUENT DEPARTMENTS

Dept. of Education, King's College, Strand,
W C 2 (Hd of Dept., Prof A V Judges, BA
DSc(Econ)) Training Dept., Goldsmiths' Col-

lege, New Cross, S E 14 (Warden, Hd of Trg
Dept & Sch of Art (teacher trg course) D. R
Chesterman, MSc PhD)

CONSTITUENT COLLEGES

[together with names of Principals]

Avery Hill Training Coll., Eitham, S E 9 (Mrs
Kathleen E Jones, MA BLitt *Oxon.*); Battersea
Trg. Coll. of Domestic Science, 58 North Side,
Clapham Common, S W 4 (Florence F. Laidler,
MSc *Wales.*, Borough Road Coll., Isleworth,
Middx. (K. E. Pnestley, MA *Oxon.*), Brighton
Coll. of Art & Crafts (teacher trg course), Grand
Parade, Brighton, 7 (R. T. Cowern), Brighton
Trg Coll., 8 Eastern Tce, Brighton, 7 (A
Steward, MSc *Sheff.*), Cavendish Square Trg
Coll., 11 Cavendish Sq., W 1 (Mother Mary
Fidelis, BA), Chelsea Coll. of Physical Education,
Carlisle Rd., Eastbourne (Audrey J. Bam-
bra), Christ Church Coll., Canterbury, Kent
(Rev F. Mason, MA *Camb.*, Hon LLD *Malaya.*),
Coloma Coll., Wickham Court, West Wickham,
Kent (Mother Mary Benignus), Dartford Coll.
of Physical Education, Dartford Heath, Kent
(Edith Alexander), Digby Stuart Coll., Convent
of the Sacred Heart, Southampton, S W 15
(Mother Mary K. Richardson, BA), Eastbourne
Trg Coll., Dailey Rd., Eastbourne (Florence E
Ward, MSc *Leeds.*), Froebel Educational Institute,
Grove House, Rochampton Lane, S W 15
(Molly Breatley, BA *Birm.*), Furzedown Coll.,
Welham Rd., S W 17 (Catherine Fletcher, BA),
Garnett Coll., 83 New Kent Rd., S E 1 (C
Jameson, MEd *Durh.*, BSc), Gipsy Hill Trg.

Coll., Kenry House, Kingston Hill, Kingston,
Surrey (Frances D. Batstone, BA), Hornsey Coll.
of Art & Crafts (teacher trg course), Dept of
Teacher Trg., Western Rd., Wood Green, N 22
(H. H. Shelton), Maria Assumpta Trg Coll., 23
Kensington Sq., W 8 (Mother Augustine Mayi,
BA), Maria Grey Coll., 300 St Margaret's Rd.,
Twickenham, Middx (Beatrice E. Deayton, BA
Oxon., MA), National Society's Trg Coll. of
Domestic Subjects, Berridge House, Fortune
Green Rd., N W 6 (Kathleen M. Perry, MSc);
National Trg. Coll. of Domestic Subjects, 72-78
Buckingham Palace Rd., S W 1 (Barbara S.
Briggs), Nonington Coll. of Physical Education,
Nonington, nr. Dover, Kent (Ellinor M. Hinks),
Philippa Fawcett Coll., 94-100 Leigham Court
Rd., S W 16 (Freda Jarvis), Rachel McMillan
Coll., Creek Rd., Deptford, S E 8 (Mary Davies),
St. Gabriel's Coll., Cormont Rd., Camberwell,
S E 5 (Mary Atkinson, MA *Durh.*); S. Kath-
erine's Coll., Tottenham, N 17 (Kathleen H.
Nahapiet, BA *Cale.*, MA *Birm.*, PhD *Nott.*);
Coll. of S. Mark & S. John, King's Rd., Chelsea,
S W 10 (A. A. Evans, MA *Brist.*), St. Mary's
Coll., Strawberry Hill, Twickenham, Middx.
(Very Rev. K. Cronin, CBE, MA), Seaford Trg
Coll. of Housecraft, Cricketfield Rd., Seaford,
Sussex (Amy Teece, BA *Mane.*), Shoreditch Trg

Coll, Cooper's Hill, Englefield Green, Egham, Surrey (E F Marshall, MA *Camb*), Sidney Webb Coll, 130 Horseferry Rd, S W 1 (Rosemary Beresford, MA *Camb*), Southlands Coll, 65 Wimbledon Parkside, S W 19 (Myra S John-

son, BA *Leeds*), Stockwell Coll, The Old Palace, Bromley, Kent (Rosemary F Carr, BSc), Trent Park Coll, Barnet, Herts (H. A. T. Summonds, OBE, MA), Whitelands Coll, West Hill, Putney, S W. 15 (Marian M Saunders, MA *Camb*)

CENTRAL INSTITUTE TEACHING STAFF

Professors

Lauwerys, J. A., DSc *Ghent*, DLat, FRIC (Compar. E)

Lewis, L. J., BSc *Wales* (E with sp ref to E in tropical areas)

Pettison, B., BA *Durh.*, PhD *Camb.*, MA (Educn.)

Reid, L. Arnaud, MA DLat *Edin.*, PhD *Wales* (Philos of E)

Vernon, P. E., MA PhD DSc (Educnl. Psychol)

Readers

Floud, Mrs Jean E., BSc(Econ) (Social of E)

Gardner, Dorothy E. M., MA *Leeds* (Child Devel)

James, H. E. O., MSc BA *Manc* (Psychol)

Wetzman, Sophia, PhD *Manc*, MA, FRHistS (Educn.)

Senior Lecturers

Baron, G., PhD BA Med *Leeds* (Contemp Brit Educnl. Instns)

Batten, T. R., MA *Oxon* (E in Trop. Areas)

Britton, J. N., MA (Engl.)

Burston, W. H., MA *Brist* (Hist)

Cleugh, Mary F., PhD BA (Teaching of Educationally Sub-normal Children)

Daltry, C. T., BSc (Maths)

Davis, Joan A. M., MA (Curric of Sec Mod Sch)

Elliott, A. V. P., MA *Camb* (Engl)

Henderson, J. L., MA *Oxon*, PhD (Hist & Internat Affairs)

Hilliard, F. H., BD PhD (Relig E)

Hodgson, Mrs Frances M., MA (Mod Langs)

Honeybone, R. C., MA (Geog)

King, W. H., BSc MA PhD (Educn)

Lee, Doris M., MA PhD (Educnl. Psychol)

Llowarch, W., MA *Camb* (Phys Sci)

Neubeig, K., MA NZ (Philos of E)

Onkeshott, Mrs Edna M., PhD BSc *Manc* (Child Devel)

Penfold, Mrs Daisy M. Edwards, MSc AM Col (Stats)

Reid, Mrs Frances M., BSc PhD *Birm.* (Biol Sci)

Schiller, L. C., CBE, MC, MA *Camb* (Jr Sch)

Simpson, W. K., MusBac *Durh.*, FRCO (Music)

Sollis, C. G., MA *Oxon* (E in Trop Areas)

Warden, Winifred M., MSc *Birm* (Health E)

Whate, H. C., DipFineArt *Edin.* (Art)

Lecturers

Andry, R. G., MA *Melb*, PhD (Educnl Psychol)

Baggott, Miss Doris I. (E. in Trop Areas)

Barnard, G. L., MA (Engl.)

Bearman, Mrs Ethel C., MA *Oxon* (Mod Langs)

Bryant, Margaret E., MA *Camb* (Hist)

Cannon, Mrs Charmian, BSc(Soc) (Educn)

Cass, Joan E. (Child Devel)

Chandler, Constance M., BSc (Phys Sci)

Clarke, Mrs Julia H., BSc MA PhD (Gen. Sci)

Collins, Gertrude A. (Music)

Coppen, Mrs Helen E., BSc *Pret* (New Media)

Dobbs, J. P. B., BA *Wales*, MEd *Durh.* (Music)

Emberton, Jocelyn A., MSc *Wis.* (Speech & Drama)

Evans, P. C. C., MA *Wales* (E in Trop. Areas)

Gabriel, Olive M. (Art)

Gilbert, M., MA *Camb*, BA BSc(Econ) (Mod Langs.)

Gould, Doris (Music)

Gray, Miss Sylvia M., BA *Pret* (Teaching of Educationally Sub-normal Children)

Hirst, P. H., MA *Camb* (Philos of E)

Hodge, Barbara J., MA *Camb* (Classics)

Holland, Louisa (Curric. of Primary Sch)

Holmes, B., BSc (Compar E)

Hursey, J. G., BA *Camb* (Music)

Langdon, Mrs Eleanor M. (Child Devel)

Lec, W. R., MA PhD *Plague* (Engl)

Long, Mrs Iris L. M., MA (Geog)

Loveridge, A. J., CMG, OBE, MA *Camb* (E in Trop Areas)

Marshak, Mildred D., BA *Calif & Lond.*, PhD (Educnl Psychol.)

Martin, Nancy C., MA DPA (Engl)

Milburn, S., MA *Oxon* (E in Trop Areas)

Moore, Mrs Edith M., MA (Engl)

Newland, W. R. (Pottery)

Noonan, J. A., DPhil *Oxon* (Engl)

Periy, L. R., BA PhD (Hist)

Roberson, B. S., BSc(Econ) (Geog)

Russell, C. V., BA (Mod Langs)

Shawwood-Smith, J. E., MA *Camb* (Classics)

Speer, J. G., BA *Oxon* (E in Trop Areas)

Spencer, Ann O. (Art)

Tregear, P. S., BA (Educn.)

Waddington, Mary, MA (Child Devel)

Whitehead, F. S., MA *Camb* (Engl)

Wilson, J., MA *Glas* (E in Trop Areas)

Wilson, J. M., CBE, BSc (E in Trop Areas)

Woolrich, Beatrice A., BA (Engl)

Wrigley, J., BSc MEd *Manc*, PhD *Belf* (Maths.)

Research Staff

Downing, J. A., BA (Problems of Learning to Read)

Hindley, C. B., BSc MB ChB *Manc.* (Child Devel.)

Malleson, N, MD, MRCP (Student Problems)
 Moore, T W, BA (Child Devel)
 Varzey, J E, MA (Econ & Admin of E)

Assistants

Gill, Mrs Madge, BA (E in Trop Areas)
 Pratt, S, BA *Oxon* (Econ & Admin of E)

Visiting Staff

Akehurst, R (Bookbinding)

Breed, Hilda A (Weaving)
 Fassam, Miss M (Health E.)
 Foster, A W A (Music)
 Fowles, J A (Lab Arts)
 Holford, Mrs Nora M (Art)
 Honeybone, Mrs D, BA (Geog)
 Shields, R W, BA *Leeds*, PhD (Educn of Maladjusted Children)
 Tustin, Miss F (Child Devel)
 Williams, R (Lab Arts)

GENERAL INFORMATION

London Day Training Coll was founded by the L C C. in 1902 as an instn in connexion with the univ working under the regns of the bd. of educn for the trg of teachers. The first principal (1902-22) was Prof (later Sir) John Adams. From 1909 to 1932 the coll. was a sch. of the univ in pedagogy, and as such was governed by a coll. council composed equally of reps of the L C C and of the senate. In 1932, as the result of an agreement between the bd of educn, the L C C and the univ, the coll was transferred to the educn and financial control of the univ, and its title was changed to 'Univ. of London Institute of Education'. The inst was administered as a 'central activity' of the univ by a delegacy apptd by the senate, and composed of reps of that body, of the L C C and of the teaching staff, together with certain co-opted members. In 1938 the inst was transferred to the new bldg on the Bloomsbury site provided by a sp grant from the council to the univ.

In accordance with the recommendation of the McNair cttee on the trg of teachers and youth leaders, the Univ. of London Inst of Educn. now comprises the 'central activity', two constituent depts and 34 constituent colls. The inst is the area trg organization for the counties of E. Sussex, Essex (except Mid-Essex and N.E. Essex), Kent, London, Middx, Surrey and the county boroughs of Brighton, Canterbury, Croydon, Eastbourne, E Ham, Hastings, Southend and W. Ham. Its purpose is to advance the knowledge and practice of educn. by res, to encourage the univ. study of educn, and to improve, co-ordinate and extend the provision for the trg. of teachers within the area.

Students are trained under the Regns for the Training of Teachers (H.M.S.O., Kingsway, London, W C 2) for primary and secondary schs. Grads may devote themselves continuously for a yr. to the theory, etc., of educn and obtain the univ postgrad cert in educn.

Particulars of the courses provided in the constituent depts, and colls may be obtained from the sec. of the inst.

LIBRARY The inst library houses 70,000 vols. and is an important centre of pedagogical res., with special collections on Commonwealth and comparative educn; about 1000 periodicals are taken annually.

FIRST DEGREES No courses provided for first degrees.

HIGHER DEGREES (of Univ of London). *At central inst.* MA and PhD in educn.

DIPLOMAS, CERTIFICATES, ASSOCIATESHIPS, ETC. (at central inst.) 1 yr.—postgrad cert in educn., art teacher's cert, music teacher's cert, sp. oversea profess cert. course, adv course in the dept of child devel., educn. of children in the jr. sch., dipl in Engl. educn. thought & practice, dipl in the teaching of Engl as a foreign lang., dipl. in the educn of maladjusted children, dipl. in the teaching of educationally sub-normal children, dipl in religious educn., dipl. in the content & methods of health educn, academic dipl. in educn 2 yrs (pt-time evg. courses)—cert in theory & practice of jr sch, cert in teaching of maths, cert in teaching of sci, cert in theory & practice of sec. sch, cert. in teaching of Engl.

An associateship of the inst. has been establ and may be awarded to students who have completed at least 1 full session of work other than for a dipl or higher degree in educn. Applicants for the award of the associateship must be recd. not later than Dec 1 in the session in which they are to be considered. A fee of 3 gs. must accompany each applicn.

'Recognized' students taking one of the following: postgrad cert in educn, art teacher's cert, music teacher's cert, dipl in the educn. of maladjusted children, dipl. in teaching of educationally sub-normal children or the adv course in the dept. of child devel, under Ministry of Educn regns for the trg of teachers, receive financial assistance towards fees and maintenance as set out in the current regns.

FEES Annual tuition fees 1 yr. and associateship courses, £62 10s., 2 yr. evg. courses, £22 1s p a, music, £85.

RESIDENCES College rooms. 12-15 and 35-37 Bedford Way, London, W C 1; 48-49 Coram St, London, W C 1, 35 Gower St., London, W C 1; 25-26 Woburn Square, London, W C 1. Places available for 105 women and 81 men.

PUBLICATIONS *Handbook* (annual); *Annual Report Yearbook of Education* (publ. by Evans Bros., Ltd, in assocn with this inst. and Teachers Coll, Columbia Univ.) Obtainable from inst. *Oversea Quarterly* and *African Women* (supple-

ment), twice a year, *Community Development Bulletin*, once a quarter, *Studies & Reports*, Nos. I-XIV, *Studies in Education*, Nos. I-X,

Studies & Impressions, *Handbook for Geography Teachers*, *Handbook for History Teachers*, *External Exams. in Secondary Schs*

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	447	335
Women	497	147
Total	944	482

Included in the figures above are —

Postgraduate students, 1300 (approx)
New admissions, 1100 (approx)
Students from other countries, 376 (Countries from which largest numbers came: India, 58, Nigeria, 45, Canada, 18, Ceylon, 16)

DEGREES AWARDED (by Univ of London) (1959-60) *Educ* PhD, 6, MA, 22

DIPLOMAS AWARDED (1959-60) *By Univ. of London* academic dipl in educn, 74 *By Inst.* educn of handicapped children, 38, Engl. educn thought & practice, 11, health educn, 22, teaching of Engl. as a foreign lang, 29, religious educn, 3

CERTIFICATES AWARDED (1959-60) *By Univ. of London* postgrad cert in educn, 445. *By Inst.* art teacher's, 55, professional cert, 41; Royal Soc cert health visitors, 40, teaching of sci, 14, Associateship of Inst., 32, religious educn, 2, theory & practice of jr sch, 23, teaching of maths, 21

[Information compiled as at 18/8/61]

INSTITUTE OF GERMANIC LANGUAGES AND LITERATURES

Founded 1950

Postal Address . 29 Russell Square, London, W.C.1, England
Cables and Telegrams Germanic Institute, Russell Square, London
Telephone . Langham 2711

CHAIRMAN OF MANAGEMENT COMMITTEE—

HONORARY DIRECTOR—Professor F. NORMAN, OBE, MA, FSA

SECRETARY/LIBRARIAN—K. G. KNIGHT, MA PhD Camb.

GENERAL INFORMATION

The objects of the inst are to promote the advancement of the study of Germanic langs and ltrs., to provide opportunities for contacts between scholars in the Germanic field, both within the univ and from other centres of learning at home and abroad, and to arrange facilities for advanced study and res in the relevant subjects.

LIBRARY A reference library (more than 15,000 vols) provides bibliographical and lexicographical material indispensable for res, and critical edns of German, Dutch and Scandinavian authors, 62 periodicals are taken Sp collections. (1)

Priebsch collection of 2212 vols. of first and early edns. of German classical and romantic writers, and of translations from German, (2) library of the English Goethe soc, consisting of 373 vols. of Goetheana, (3) Gundolf collection of MS. material

FIRST DEGREES No courses provided for first degrees

ADMISSION Membership is granted, without fee, to full-time teachers in depts. of Germanic langs and ltrs. of the univ., postgrad students engaged on res in any of these depts., sr scholars

U.K.—ENGLAND (LONDON)

from other univs., and other persons approved by the dir. or the cttee. of management, no undergrads are admitted except for spec purposes, such as attendance at seminars or courses held at the inst

There are no registered students, or teaching staff

PUBLICATIONS. *Annual Report*; *Union List of Periodicals dealing with Germanic Langs. & Lits.* (comprises holdings of the inst., of the univ library and of the schs and insts of the Univ. of London), *Schiller Bicentenary Lectures*, *Schiller in England 1787-1960. a Bibliography.*

THE YEAR 1960

The inst continued to act as a centre of postgrad studies and as a meeting-place for scholars in the Germanic field 8 colloquia were held

during the yr., of which a number were opened by scholars from abroad

[Information compiled as at 15/8/61]

INSTITUTE OF HISTORICAL RESEARCH

Founded 1921

Postal Address . Senate House, London, W.C 1, England

Telephone . Museum 0272-3

DIRECTOR—Professor F WORMALD, LittD MA Camb, FBA, FSA

SECRETARY AND LIBRARIAN—A. T. MILNE, MA

GENERAL INFORMATION

The Inst. of Historical Research is one of the central instns. of the univ administered by a cttee apptd. annually by the senate. The inst is primarily designed for trg. of postgrad students in the methods of historical res., and for the use of visiting scholars while working in London It consists of a systematically planned series of seminar libraries, equipped with printed sources of British and foreign hist, guides to archives, biblogs and other essential works of reference The cttee may admit to use of the inst any teacher of hist. in the univ and his res. students, also teachers and res students from other univs Instrucon. is undertaken by the dir and members of the hist. depts of the schs of the univ It is normally carried on in (1) a series of prelim courses dealing with the sources of British, Imperial and foreign hist, introductions to work in archives and paleography classes; (2) a series of seminars dealing with sp historical subjects In

addn., the inst. is active in promoting the organization of historical studies in general, in undertaking bibliographical and other investigations, some results of which are publd in its *Bulletin*, and in arranging conferences Besides res projects of its own, the inst accommodates several associated enterprises, the largest being the hist of parliament.

LIBRARY. 86,374 vols of books, periodicals and pamphlets, also maps, prints and drawings, facsimiles and microfilms

PUBLICATIONS *Annual Report*, *Bulletin* (twice a yr, sub 25s) with annual supplements recording historical res for univ. degrees in the, U K., and occasional sp supplements *Victoria Hist of the Counties of England* (general editor R. B Pugh, MA Oxon, FSA), price 5 gs or more per vol The univ. publcen., *Sch of Hist. & Inst of Historical Res*, serves as a handbook to the inst

THE YEAR 1960

ADMISSIONS AND COURSES The no of persons admitted to use of the inst was 1137, incl. 396 students reading for higher degrees 47 postgrad courses and seminars in hist. were offered.

CONFERENCES In addn to the annual Anglo-American conference of historians, there were several evng meetings addressed by visiting scholars

[Information compiled as at 30/8/61]

SCHOOL OF SLAVONIC AND EAST EUROPEAN STUDIES

Founded 1915 as a department of King's College, London; since 1932 a
'Central Activity' of the University

Postal Address: University of London, School of Slavonic and
East European Studies, London, W C 1, England

Cables and Telegrams: University London Slavonic

Telephone: Museum 9782-3

CHAIRMAN OF COUNCIL—Professor F. NORMAN, OBE, MA, FSA

DIRECTOR—G. H. BOLSOVER, OBE, MA *Litt*, PhD

SECRETARY—R. G. H. WHITWORTH, BA

LIBRARIAN—H. SCHURER, PhD *Lett.*, FLA

TEACHING STAFF

Bulgarian		Polish	
Pinto, V. de S., Jr, MA <i>Oxon</i> , PhD	Lectr.	Pietrkiewicz, J., MA <i>St And</i> , PhD	Lectr.
Czech and Albanian		Roumanian	
Mann, S. E., MA <i>Brist</i>	Reader	Tappe, E. D., MA <i>Oxon</i>	Lectr.
History, Central European		Russian	
Carsten, F. L., DPhil <i>Oxon</i>	Masaryk Prof.	Malnick, Bertha, BA <i>Camb</i> , PhD	Prof.
Skwarczyński, P., LL.D. <i>Cracow</i> , PhD	Lectr.	Hare, Hon. R., MA <i>Oxon</i> .	Reader
History, Economic and Social		Stokes, A. D., MA PhD <i>Camb</i>	(Lit.) Reader
Wattiner, Doreen, OBE, BA <i>Oxon</i> , PhD		Norman, A., BA <i>Oxon</i> , MA	Lectr.
(Eastern Europe) Reader		Swoboda, V., MA (Russian & Ukrainian)	Lectr.
Nove, A., BSc(Econ)		Burgess, M. A. S., MA PhD <i>Camb</i> .	Lectr.
(jointly with L.S.E.) (Russian) Reader		Donehin, Mrs. G., BA PhD	Asst. Lectr.
History of Danubian Lands		Drage, C. L., BA <i>Oxon</i> , MA	Asst. Lectr.
Auty, Phyllis, MA BLitt <i>Oxon</i>	Lectr.	Ericsson, Mrs. K., DPhil <i>Berl</i>	Lectr.
History, Russian		Russian Economic History	
Seton-Watson, G. H. N., MA <i>Oxon</i> .		Crisp, Mrs. Olga, BA PhD	Lectr.
Keep, J. L. H., BA PhD	Prof., Hd of Dept. Lectr.	Serbo-Croat	
Hungarian		Javarek, Mrs. Vera, BA PhD	Lectr.
Cushing, G. F., MA <i>Camb</i> , PhD	Lectr.	Slavonic Philology, Comparative	
		Nandris, G., PhD <i>Cracow</i>	Prof., Hd. of Dept.
		Leeming, H., BA <i>Mane & Lond.</i> , PhD	Lectr.

GENERAL INFORMATION

Established at King's Coll., 1915. Since Aug 1932 a dept. of the Univ. in arts

LIBRARY 75,000 vols.

ADMISSION See p. 953 and Appendix III. A student entering the sch. as an undergrad. will

normally be required to have passed in a G.C.E. exam. at advanced level in the Slavonic lang. of his choice, and 1 or 2 other subj.

FIRST DEGREES (of Univ. of London). The sch. provides 3-yr. courses for BA (gen. and hon.)

U.K.—ENGLAND (LONDON)

degrees of the Univ. of London in Bulgarian (BA (gen)), Czechoslovak, Hungarian, Polish, Roumanian, Russian and Serbo-Croat lang. and lit., for BA (hons.) in Russian, central European and south-eastern European regional studies, and in hist, branch VI

HIGHER DEGREES (of Univ. of London) MA in all the above langs and lits. and in regional studies of the countries concerned; also in hist. PhD in hist. and in slavonic and E European subjs.

RESEARCH. Candidates with appropriate qualifs accepted for res. not leading to degrees of Univ. of London

FEES £6 to £21 for occasl students of langs Undergrads (incl union membership), £56 p a, postgrad, £40 p a

PUBLICATIONS. *Slavonic & East European Review* (twice p.a.) *Prospectus* (each session). *Director's Report* (each session).

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	89	35
Women . . .	24	37
Total	113	72

Included in the figures above are —

Students registered for univ degrees, 105 full-time (82 m, 23 w), 29 pt-time (21 m, 8 w)

Postgraduate students, 29

New admissions, 29

Students from other countries, 15. (Country from which largest number came U S A, 7)

DEGREES AWARDED (by Univ of London) (1959-60) Arts: PhD, 3, MA, 2, BA hons, 18.

[Information compiled as at 28/7/61]

WARBURG INSTITUTE

Incorporated 1944

Postal Address · Woburn Square, London, W.C.1, England

Cables and Telegrams : Warburg Institute, London, W.C.1

Telephone : Langham 9663-8

CHAIRMAN OF MANAGEMENT COMMITTEE—Professor EDNA PURDIE, MA *Liv*, DLit

DIRECTOR—Professor E. H. J. GOMBRICH, MA *Oxon*, PhD *Vienna*, FBA, FSA

SECRETARY—ANNE M. MEYER

LIBRARIAN—O. KURZ, PhD *Vienna*

CURATOR OF PHOTOGRAPHIC COLLECTION—Mrs ENRIQUETA E. FRANKFORT, PhD

TEACHING STAFF

[†=Part-Time]

History of Art

Buchthal, H., PhD *Hamburg*, FBA

Eitlinger, L. D., PhD *Halle*

Swarzenski, P. T. J., PhD *Bonn*

History of the Philosophy of Science

Prof. Bartley, W. W., AM *Harv*, PhD Lectr

†Lectr.

†Lectr

History of the Renaissance

Yates, Frances A., MA Reader

History of the Classical Tradition

The Director

Renaissance Studies

Prof. Walker, D. F., DPhil *Oxon* Reader

GENERAL INFORMATION

The inst. is concerned with the hist of the classical tradition. It provides facilities for res on the symbolism of the religions, arts and lts of the Mediterranean civilizations (No courses provided for first degrees) The *Library* contains about 140,000 vols and offprints, and 1000 runs of periodicals The *Photographic Collection* (about

230,000) covers the hist and iconography of classical art in post-classical times

PUBLICATIONS *Annual Report*, *Studies of the Warburg Inst*; *Corpus Platonicum Medii Aevi*, *Journal of the Warburg and Courtauld Insts*, *Medieval & Renaissance Studies*

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	6	—
Women .	7	2
Total	13	2

Included in the figures above are —

Postgraduate students, 15

New admissions, 6.

Students from other countries, 8

NON-MEDICAL SCHOOLS

[Information compiled as at 1/8/61]

BEDFORD COLLEGE*

Founded 1849; incorporated 1909

Postal Address. Inner Circle, Regent's Park, London, N W 1, England

Cables and Telegrams. Edforcoll, Norwest, London

Telephone Welbeck 5743

PATRON—H.M. QUEEN ELIZABETH THE QUEEN MOTHER

VISITOR—The Rt Hon LORD ADRIAN, OM, Hon DSc Penn., Oxon, Harv, Lyons, Manc, Durh., Johns H, Belf, Wales, N Y, Sheff, Hull, Brazil, Bologna, Freib, Paris, Leic & Lond, Hon LLD McG, St And, Glas, Lvo, Dal & Edm, Hon. MD Brussels, Louvain & Monts, MA MD Camb, FRS, FRCP

CHAIRMAN OF COUNCIL—THE LADY MORAN, MBE, MA

PRINCIPAL—NORAH L. PENSTON, BA DPhil Oxon

SECRETARY—IRENE G SHEPPARD, BA

REGISTRAR—NORAH McNAULTY, BA

LIBRARIAN—DORIS BAINS, BA, FLA

BURSAR—DOROTHY G L WYNN CORNISH

TEACHING STAFF

[†=Part-Time]

Botany

Audus, L J, MA PhD Camb

Spanner, D. C., BSc PhD

Sharman, B. C., PhD Leeds

Rose, F., BSc PhD

Bentley, Linna B., BSc Manc, PhD

Turnbull, L. P., MSc N Z.

Bull, A. T., BSc Nott.

Faulkner, B M, BSc Birm.

Hildred Carlile Prof.

Reader

Lectr.

Lectr.

Lectr.

Asst. Lectr.

Asst Lectr

Chemistry

De La Mare, P. B. D., MSc N Z, PhD

DSc, FRIC

Hall, D Muriel, BSc PhD

Smith, J W, PhD DSc, FRIC

Lesslie, Mary S., MA BSc PhD St And,

DSc

Trew, Violet C. G., PhD DSc

Harris, Mrs Margaret M., PhD DSc

Howlett, K. E., DSc PhD

Prof

Reader

Reader

Sr Lectr

Sr Lectr.

Lectr

Lectr

* For women (Men are admitted for postgraduate work)

Tillett, J. G., BSc PhD Lectr
 Farago, Mrs Margaret E., BSc PhD Lectr
 Mackenzie, K., PhD Asst. Lectr
 Bolton, R., BSc *W Aust* Asst Lectr

Mountjoy, A. B., MC, MA *R'dg* Lectr.
 Vollans, Eleanor C., MA BLitt *Oxon* Lectr
 Embleton, C., MA PhD *Camb* Lectr
 Chusholm, M., MA *Camb* Asst Lectr

Classics

Stevens, P. T., MA *Oxon*, PhD *Aberd* (Greek) Prof
 Onians, R. B., MA *Liv*, PhD *Camb* (Latin) Hildred Carlile Prof
 Staveley, E. S., MA DPhil *Oxon* (Anc Hist.) Reader
 Healy, J. F., MA PhD *Camb* (Greek) Reader
 Andrews, Margaret, MA (Latin) Sr Lectr
 Wilkinson, Mrs Gillian A., MA *Camb* (Latin) Lectr
 Eden, P. T., MA *Oxon* (Latin) Lectr
 Coldstream, N., MA *Camb* (Greek) Lectr
 Lowe, J. C. B., BA *Oxon* (Latin) Lectr
 Barron, J. P., MA *Oxon* (Latin) Asst Lectr
 Aitchison, Jean M., BA *Camb* (Greek) Temp Asst Lectr
 Littlewood, Rosemary B. (Latin) Asst Lectr
 Quinn, T. J., BA *Manc* (Greek) Asst Lectr.

Dutch

Weevers, T., LitD *Ley*. (Lang & Lat) Prof
 Huysinga, Aletta, LitDoct *Amst.* Lectr.
 McClure, Tanis, BA Asst Lectr

Economics, see Soc. Studies**English**

Tillotson, Mrs Kathleen M., MA BLitt *Oxon* (E Lit) Hildred Carlile Prof
 Hodgson, Phyllis, MA *Camb*, BLitt DPhil *Oxon*, BA (E Lang) Prof
 Latham, Agnes M. C., MA BLitt *Oxon* (E Lit) Reader
 Ridley, M. R., MA *Oxon* †Lectr.
 Britton, G. C., MA PhD *Birm* Lectr
 Hill, D. M., BA *Leeds* Lectr
 Maitin, C. G., BSc *St And.*, MA *Oxon* Lectr.
 Salmon, Mrs Vivian G., MA Lectr.
 Thomas, Gillian, BA BLitt *Oxon* Asst Lectr

French Language and Literature

Spink, J. S., MA *Leeds*, DUParis Prof.
 Lyons, Marianne F., MA *Oxon*, DUParis Reader
 Mayer, C. A., BA PhD Reader
 Le Breton, Mrs Eileen, LèsL *Lille*, DUParis, MA Lectr
 Duckworth, C. R., MA *Birm.*, PhD *Camb* Lectr
 Laycock, Mrs. Blanche E., LèsL *Paris* †Asst. Lectr.
 Bird, Mrs. Eva, DUParis Asst. Lectr.

Geography

Manley, G., MA *Camb.*, DSc *Manc* Prof
 Smece, Dora K., MA PhD Sr. Lectr.
 Timberlake, Eunice M., BSc Lectr.

Geology

King, B. C., MSc *Dwh*, DSc *Glas.*, PhD Prof
 Holland, C. H., BSc *Manc.*, PhD Lectr.
 Dunlop, Grace M., PhD *Glas* Lectr.
 Sturt, B., BSc PhD *Wales* Lectr
 Turner, D. C., BSc Asst. Lectr.
 Beavon, R., BSc *Wales* Asst Lectr.

German

Purdie, Edna, MA *Liv*, DLit Prof
 Walshe, M. O'C., MA Reader
 Atkinson, Margaret E., MA Lectr
 Knight, Dorothy, MA Lectr.
 Ostbeig, K., MA Lectr
 Ockendon, R. C., BA *Oxon* Asst Lectr

History, Mediaeval and Modern

Penson, Dame Lillian M., DBE, Hon LL.D *Camb*, *Leeds*, *McG*, *St And* & *S'ton*, Hon DLit *Belf*, Hon DLitt *Sheff.* & *W Ont*, Hon DCL *Oxon*, PhD (Mod. H.) Prof.
 Du Boulay, F. R. H., MA *Oxon*. (Mediev H.) Prof.

Greaves, R. W., MA DPhil *Oxon*. Reader
 Burton, I. F., BA *Belf*, PhD Lectr
 Lawrence, C. H., MA DPhil *Oxon*. Lectr
 Hankey, A. Teresa, PhD Lectr
 Jenks, Margaret H., BA Asst Lectr
 Russell, C. S. R., BA *Oxon* Asst Lectr.

Italian

Dionisotti, C., MA *Oxon*, DottLett *Turin* Prof
 Thorne, Mrs Elizabeth, PhD Lectr.
 McNair, P. M. J., MA *Oxon*. Asst Lectr

Mathematics

Eggleston, H. G., MA PhD ScD *Camb* Prof
 Clark, G. L., MA PhD *Camb*. Reader
 Sargent, Winifred L. C., MA ScD *Camb.*, PhD Reader
 Kneebone, G. T., MSc PhD Lectr
 Danicic, I., PhD Lectr
 Kendall, P. C., MSc PhD Lectr.
 Hardiman, Nellie J., MSc PhD Lectr
 Cohn, J. H. B., MA DPhil *Oxon* Asst Lectr

Philosophy

Acton, H. B., MA DPhil *Oxon* Prof.
 Lacey, A. R., MA PhD *Camb*. Lectr.
 Meager, Ruby L., MA BPhil *Oxon* Lectr.
 Tulloch, Doreen, MA PhD *St.And.* Visiting Lectr.
 Kolnai, A. T., PhD *Vienna* Visiting Lectr

Physics			Brown, W P, PhD <i>Aberd.</i>	Asst Lectr
Richardson, H. O. W, PhD <i>Camb</i> ,			Vincent, Shirley, BA <i>Camb</i>	
DSc <i>Edin</i>	Hildred Carlike Prof.		(Stats) Asst Lectr	
Pincherle, L, Dott Fisica <i>Bologna</i>	Reader	Social Studies and Economics		
Little, V. I, BSc PhD	Lectr	Williams, Lady Gertrude, BA <i>Mane.</i>		
Mansfield, R, BSc PhD	Lectr.	(Soc. Econ) Prof.		
Hill, Nora E, BSc PhD	Lectr	McGregor, O. R, BSc(Econ)		
Cooke, C, PhD	Asst Lectr	(Soc. Instns.) Reader		
Barnes, J F, BSc <i>Wales</i>	Asst Lectr	Fletcher, R., BA <i>Brist</i> , PhD		Lectr
Thomas, R. N, BSc	Asst Lectr	Iersac, A. R., BCom MSc	(Soc Stats)	Lectr
Physiology			Rooff, Madeline M, BA	Lectr.
Widdas, W F, MB BS <i>Durh.</i> , PhD DSc	Prof	McIntosh, Mrs. Marjorie, BA <i>Oxon.</i>		Lectr
Cheesman, D F, PhD	(Biochem.) Reader	Nevitt, Adela A, BSc(Econ)		Lectr
Hilton, Mrs Elizabeth L, MSc <i>Melb.</i>	Lectr.	Shenfield, Mrs Barbara E., BA <i>Burm</i>		Visiting Lectr
Darlow, G, BSc PhD	Lectr	Thompson, Bernice, BA		Asst Lectr
Bond, Audrey M, BSc PhD	Lectr			
Prebble, J., PhD	Lectr			
Wright, G H., BSc	Lectr.			
Psychology			Zoology	
Harding, D W., MA <i>Camb</i>	Prof	Millott, N, DSc <i>Sheff</i> , PhD <i>Camb</i>		Prof
Wynn Reeves, Joan, PhD	Reader	Healey, E G, DPhil <i>Munch</i> , BSc PhD		Reader
Forrest, D W, MA <i>Oxon</i> , PhD	Lectr	Ince, Frances E, MSc		Sr Lectr
Lewlor, Monica, PhD	Lectr	Galchist, Barbara M, BSc PhD		Lectr
Chown, Mrs Sheila, PhD <i>Lev</i> , BSc	Lectr	Dales, R P, BSc PhD		Lectr
Stevenson, W A. H, TD, MA BM		Green, J., BSc PhD		Lectr
BCh <i>Oxon</i>	Visiting Lectr	Pontin, A. J., MA DPhil <i>Oxon</i>		Asst. Lectr
		Pontin, Mrs. Rosalind, BSc		Asst. Lectr

ADMINISTRATIVE AND OTHER STAFF

Maintenance Officer	I S Sutton.	MA BSc PhD <i>St And.</i> , DSc	Warden of
Warden of Read Hall	Margaret Lamb, BA	Hanover Lodge	Mrs. Evelyn Stayt
N.Z. Dean of Lindsell Hall	Mary S. Leslie,	Matron: Mrs G M Guest	College

GENERAL INFORMATION

A sch of the univ. in arts, sci. and econ. Founded in 1849 by Mrs Elisabeth Jesser Reid at 47 Bedford Sq, W C.1, as an undenominational coll for women, men have been admitted as registered postgrad students since 1946, moved to Baker St. in 1874 and to its present site in Regent's Park in 1913. From 1878 students were prepared for the exams of the Univ of London, which had just opened its degrees to women. In 1900 the coll was recog by the Univ of London in the facs. of arts and sci. and in 1912 the first univ. chair tenable at the coll was instituted in maths. Further bldgs. were added after the 1914-18 war to accomm increased nos of students, and in 1931 the Tuke bldg, designed for several of the arts depts and providing labs for the depts of chem and phys., was opened. Academic devel continued steadily, and by 1939 15 of the depts, and by 1948 all depts, were under the headship of profs of the univ. From 1939 to 1944 the coll was evacuated to Cambridge, and during this period the bldgs in London were seriously damaged by enemy action. The reconstruction of the war-damaged bldgs started in 1947 and was completed in April 1952.

CONSTITUTION Governed by governors and council which includes reps of the univ, the LCC and the coll staff

FACULTIES AND DEANS. *Arts*, Prof F. R. H. Du Boulay (mediev hist), *sci.*, Prof D. W. Harding (psychol)

LIBRARY. 123,000 vols (not incl pamphlets)

LABORATORIES Bot, chem, geog., geol., phys., physiol., psychol. and zool

OBSERVATORY Grub 7-in. telescope, equatorially mounted.

ADMISSION Min age for admission, 18. In addn. to satisfying the univ entrance requirements (see p 953 and Appendix III) candidates other than grads must also pass the coll. entrance exam.

FIRST DEGREES (of Univ of London). The coll provides courses for degrees of the Univ. of London as listed below 3 yrs.—BA (gen.), BSc (gen.), BA (hons) in classics, Dutch, Engl., French, geog., German, Greek (with Latin), hist., Italian, Latin (with Greek), maths, philos., philos & econ, philos. & psychol., psychol., sociol;

BSc(Soc), BSc (spec) in biochem., bot., chem., geog., geol., maths., phys., physiol., psychol., zool.

HIGHER DEGREES (of Univ. of London). MA, MSc, PhD in classics, Dutch, Engl., French, geog., German, Greek, hist., Italian, Latin, maths., philos., philos. & econ., philos. & psychol., psychol., sociol., biochem., bot., chem., geog., geol., maths., phys., physiol., psychol., zool. MSc(Econ) & PhD(Econ) in sociol.

DIPLOMAS *Awarded by Univ. of London* : univ. academic dipl. in psychol., 1 yr postgrad. *Awarded by the coll.* coll. dipls. in soc studies and in beta & gamma ray spectroscopy, 1 yr postgrad. each.

RESEARCH Facilities in all depts.

FEES (inclusive annual) for tuition : BA, £45 ; MA and PhD (arts), £21, BSc, £60, MSc and PhD (sci), £30, soc. studies dipl., £47 5s Union soc & athletic union, £3.

POSTGRADUATE AWARDS open to grads. of other univs : see p. 808

GRADUATES' ASSOCIATION. Bedford Coll old students' assocn

STUDENT RESIDENCES. Reid Hall, Regent's Park, N W 1 (tel. Welbeck 5743) ; £153 : 158 p.a. ; 139 students Lindsell Hall, 25-35 Adamson Rd., N W 3 (tel. Primrose 2770), £129 : 158 p.a., 87 students Hanover Lodge, 150 Park Rd., N W 8 (tel. Ambassador 5163) ; £153 : 158 p.a., 20 students. All residences for women only Fees liable to alteration at any time.

STUDENTS' UNIONS Students' union soc and athletic union.

PUBLICATIONS *Calendar* every 2 yrs., post free, 3s 6d ; *Prospectus*, free, *History of Bedford Coll for Women, 1849-1937*, by M. J. Tuke (O U P., 1939 ; obtainable from the coll., 3s. 6d. post free).

THE YEAR 1960

RESIGNATIONS B Donovan (phys.), apptd lectrs in phys., Westfield Coll, Lond ; Ivy Pinchbeck (soc studies), awarded Nuffield res fellowship, O. J. Szemerényi (Greek), apptd prof. of comparative philol., Univ Coll, Lond.

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	24	8
Women . .	914	21
Total . .	938	29

Distribution by Faculties. Arts, 493 ; sci, 376 ; soc studies, 98 Total. 967.

Included in the figures above are —

Postgraduate students, 120.

New admissions, 327

Students from other countries, 75. (Countries from which largest numbers came. U.S.A., 10 ; Hong Kong, 7, Canada, 5 ; India, 5)

DEGREES AWARDED (by Univ. of London) (1959-60) Arts BA, 6, BA (hons), 115 ; MA, 2 Sci. BSc, 8, BSc (hons.), 64, MSc, 2, DSc, 2 Soc studies : BA (hons.), 21, BSc(Soc), 17. PhD (all fcs) . 12 Total number of first degrees awarded, 231

DIPLOMAS AWARDED (1959-60) Coll. postgrad dipl. in soc. studies, 5.

[Information compiled as at 30/8/61]

BIRKBECK COLLEGE

Incorporated 1926 ; previously established as the London Mechanics' Institute, 1823

Postal Address Malet Street, London, W C 1, England

Cables and Telegrams Birkbeck College, London

Telephone . Langham 6622

PATRON—H M QUEEN ELIZABETH THE QUEEN MOTHER

PRESIDENT OF THE COLLEGE—The Rt. Hon LORD DANNING

U.K.—ENGLAND (LONDON)

CHAIRMAN OF THE GOVERNORS—W R WOOLDRIDGE, PhD *Camb*, Hon. DVSc *Lw*, MSc, FRIC, FRCVS

MASTER—J. F. LOCKWOOD, MA *Oxon*, Hon LLD *Leic* & *W.Ont*, PhD

CLERK TO THE GOVERNORS—A. J. CARAFFI, BSc

SENIOR TUTOR—D. DAKIN, MA *Camb*, PhD, FRHistS

REGISTRAR—ELEANOR M ROBERTSON

LIBRARIAN—A P. HOWSE, MA, FLA

TEACHING STAFF

[†=Part-Time]

Art, see Hist. of Art		Johnston, A., MA DPhil <i>Oxon</i>	Lectr.
Botany		Russell-Smith, Joy D M, MA <i>Oxon</i>	Lectr.
Ingold, C. T., DSc <i>Belf</i> , FLS		Bately, Janet M., MA <i>Oxon</i> .	Lectr.
Prof, Hd of Dept		Allen, Dorena V., BA <i>Oxon</i>	Asst Lectr.
Wilson, K., MSc PhD		Dodsworth, J. M., MA <i>Oxon</i>	Asst. Lectr.
Plunkett, B. E., BSc PhD		French Language and Literature	
Dixon, P. A., BSc		Taylor, A. C., BA <i>Syd</i> , DU Dèsl <i>Paris</i>	Prof, Hd of Dept
Morton, J. K., BSc PhD <i>Durh</i>		Ross, D. J. A., BA <i>Camb</i> , MA PhD	Reader
Cassellon, P. J., BSc		Barber, W. H., MA DPhil <i>Oxon</i>	Reader
Dodge, J. D., BSc		Fearn, Mrs Marguerite-Luliane, Lèsl <i>Neuchâtel</i> , BA PhD	Lectr.
Chemistry		Bailey, Miss Rose N. N., Lèsl <i>Dyon</i> , BA PhD	Lectr.
Overend, W. G., DSc <i>Birm</i> , FRIC		Blanc, M. H. A., Lèsl <i>Lyons</i> , BA	Lectr.
Prof, Hd of Dept		Polak, Lucie L. G., PhD	Asst Lectr.
Ives, D. J. G., DSc PhD, FRIC		Curra, Mrs. Henriette, MA <i>St And</i> , BA	Assistante
Williams, G. H., PhD		Geography	
Pittman, R. W., BSc PhD		East, W. G., MA <i>Camb</i>	Prof., Hd. of Dept.
Shaw, R. A., BSc PhD, FRIC		Henderson, H. C. K., MA BSc <i>Glas</i> , PhD	Reader
Feakins, D., BSc PhD		Campbell, Eila M. J., MA, FSA	Lectr.
Williams, N. R., MA PhD <i>Camb</i>		Dury, G., MA PhD, FGS	Lectr.
Capon, B., BSc PhD <i>S'oton</i>		Davis, J. F., BA PhD	Lectr.
Hedgley, E. J., BSc PhD <i>Birm</i> (on leave)		Hall, P. G., MA PhD <i>Camb</i>	Lectr.
Ferner, R. J., BSc PhD <i>Edin</i>		Bunting, B. T., MA <i>Sheff.</i>	Lectr.
Smith, B. C., MA <i>Camb</i> , PhD <i>Nott</i>		Geology	
Bacon, M. F., BSc		Dollar, A. T. J., PhD <i>Camb</i> , BSc, FGS	Reader, Hd of Dept
Fitzsimmons, B. W., BA <i>Dub.</i>		Seager, A. F., BSc PhD, FGS	Lectr.
Collins, P. M., MSc		Simpson, A., BSc <i>Glas</i> , FGS	Lectr.
Classics and Ancient History		Temple, J. T., MA PhD <i>Camb.</i> , FGS	Lectr.
Warmington, E. H., MA <i>Camb</i> , FRHistS		Fitch, F. J., BSc, FGS	Lectr.
Prof, Hd of Dept		Roberts, B., BSc	Asst Lectr.
Webster, Mrs. A. Marjorie, MA <i>Oxon</i> , FBA		German	
Way, A. G., MA		McClean, R. J., DrPhil <i>Konigsberg</i> , MA	Prof, Hd of Dept.
Caven, B. McM., MA <i>Camb.</i>		Robson-Scott, W. D., MA <i>Oxon</i> ,	Lectr.
Dutch		DrPhil <i>Vienna</i>	Reader
Weevers, T., LitD <i>Ley</i>		Jolles, Charlotte, DrPhil <i>Berl</i> , MA	Lectr.
Huysinga, Aletta, LitDoctA <i>Amst.</i>		Brady, P. V., MA <i>Camb.</i>	Lectr.
English Language and Literature			
Tillotson, G., BLitt <i>Oxon</i> .			
(Lit.) Prof, Hd of Dept.			
Brooks, H. F., MA BLitt DPhil <i>Oxon</i>			
Freeman, Rosemary, MA PhD <i>Camb.</i>			
Evison, Vera I., BA, FSA			
Hardy, Mrs. Barbara G., MA			

History

Darlington, R. R., PhD <i>R'dg</i> , BA, FRHistS, FBA, FSA	Prof, Hd of Dept
Ruddock, Alwyn A., BA PhD, FRHistS	Reader
Hobsbawm, E. J., MA PhD <i>Camb.</i>	Reader
Dakin, D., MA <i>Camb</i> , PhD, FRHistS	Reader
McGurk, P. M., BA PhD	Lectr.
Gibbs, G. C., MA <i>Liv</i>	Lectr.
Cumpston, Mary, MA <i>Syd</i> , DPhil <i>Oxon</i>	Lectr.
Wilks, M. J., MA PhD <i>Camb.</i>	Lectr.

History of Art

Pevsner, N. B. L., CBE, MA <i>Camb</i> , PhD <i>Leip</i> , FSA	†Prof, Hd of Dept
Summerson, Sir John, CBE, BA, FBA, FSA	†Lectr
Murray, P., BA PhD, FSA	†Lectr
Zarnacki, G., MA <i>Cracow</i> , PhD	†Lectr

Italian

Duncan, D. S., BA	Lectr, Hd. of Dept
Giorgetti, G. F., DottLett <i>Fua</i>	Lectr

Mathematics, Pure and Applied

Offord, A. C., PhD <i>Lon</i> & <i>Camb</i> , DSc, FRS	Prof., Hd of Dept
Cooke, R. G., DSc	Reader
Dowker, C. H., BA <i>W.Ont</i> , MA <i>Tor</i> , PhD <i>Prin</i>	Reader
Tiffen, R. W., MSc PhD, FIP	Reader
Vermes, P., DSc	Sr. Lectr.
Edge, J., BA <i>Camb</i> , BSc	Lectr.
Kronheimer, E. H., MA <i>Camb</i> , PhD <i>S'oton</i>	Lectr
Greenwood, D. A., MA PhD <i>Camb.</i>	Lectr.
Booth, Mrs Kathleen H. V., BSc PhD	†Lectr.
Coppel, W. A., BA <i>Melb.</i>	Lectr
Mehdi, M. R., MSc PhD	Lectr.
Herszberg, J., MSc PhD	Lectr
Buxton, L. G., BSc	†Asst.

Numerical Automation

Booth, A. D., PhD <i>Birm</i> , DSc, FIP (Computational Methods)	Reader, Hd of Dept
Levison, M., BSc	Asst Lectr

Occupational Psychology

Rodger, A., MA <i>Camb</i>	Prof
Cavanagh, P., MA <i>Camb.</i>	Lectr
Randell, G. A., BSc <i>Nott.</i> , MSc	Lectr

Philosophy, Logic and Ethics

Saw, Ruth L., BA PhD (Aesthetics)	Prof, Hd of Dept.
Peters, R. S., BA <i>Oxon</i> & <i>Lon</i> , PhD	Reader

Hamlyn, D. W., MA <i>Oxon</i>	Lectr
Griffiths, A. P., BA <i>Wales</i> , BPhil <i>Oxon</i>	Lectr
Shillcock, D. J., BA	Asst Lectr

Physics

Bernal, J. D., MA <i>Camb</i> , FRS	Prof, Hd of Dept
Bohm, D. J., BS <i>Penn</i> , PhD <i>Calif</i> (Theoret. P.)	Prof
Ehrenberg, W., PhD <i>Heidel</i> , DSc, FIP	Reader
Carlisle, C. H., MSc <i>Luck</i> , DPhil <i>Oxon</i> , FIP	(Crvstallo) Reader
Jeffery, J. W., BA <i>Camb</i> , PhD, FIP	Si Lectr
Cusack, N. E., BSc PhD	Lectr
Trent, P., BSc PhD	Lectr
Jennings, J. C. E., BSc PhD	Lectr
Butt, D. K., PhD <i>Edn</i> , BSc	Lectr
Mackay, A. L., MA <i>Camb</i> , BSc PhD	Lectr
Hirsch, J., BSc PhD	Lectr
Bullen, G. J., BSc PhD	Lectr
Hiley, B. J., BSc	Asst Lectr

Psychology

Summerfield, A., BSc <i>Man</i> & <i>Lon</i>	Prof, Hd of Dept
Foss, B., MA <i>Oxon</i> & <i>Camb</i>	Lectr
Veness, Thelma, BA	Lectr
Hurwitz, H. M. B., BA <i>Rand</i>	Lectr
Brown, J., MA PhD <i>Camb.</i>	Lectr
Ward, Barbara, MA <i>Camb.</i> & <i>Lon</i> (Anthropol.)	†Lectr.
Fletcher, R., BA <i>Brist</i> , PhD	†Lectr.
Adams, K. R., BA <i>Oxon</i>	†Lectr
Millar, Susanna, BA PhD	†Lectr
Kiernan, C. C., BA <i>Nott</i>	Asst Lectr

Spanish

Watson, A. I., BA PhD	Lectr, Hd. of Dept.
Dutton, B., MA	Lectr.
Truman, R. W., MA <i>Oxon</i>	Asst Lectr
Salazar, A. M., LicenHist <i>Seville</i>	†Asst

Statistics

Cot, D. R., MA <i>Camb</i> , PhD <i>Leeds</i>	Prof
Wetherill, G. B., BSc PhD	Lectr
Miller, H. D., BSc <i>Rand</i> , MA <i>Camb</i>	Lectr

Zoology

Bullough, W. S., DSc <i>Leeds</i>	Prof, Hd of Dept
Hughes, T. E., MA <i>Oxon</i>	Reader
Griffiths, I., MSc <i>Wales</i> , PhD	Lectr.
Attridge, J., MA MS <i>Calif.</i> , BSc	Lectr.
Weidmann, U., DPhil <i>Zur</i>	Lectr
Chapman, R. F., BSc PhD	Lectr
Cruickshank, W. J., BSc <i>Aberd.</i>	Asst Lectr.
Wells, J. B. J., BSc	Asst Lectr

ADMINISTRATIVE AND OTHER STAFF

Bursar	J. W. Sperscott, FCA.	Asst. Sec.	P. B. Rowley, MA <i>Oxon</i>	Dep. Librarian	Norah H. Evans, BA, FLA	Asst. to Registrar	Joyce M. Withers.
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GENERAL INFORMATION

Founded by Dr George Birkbeck in 1823 'for the purpose of giving educn. to students in the principles of the arts they practise, and in the various branches of sci. and useful knowledge'. The principal aim of the coll, which was admitted as a sch. of the univ in 1920, is to enable men and women engaged in full-time occupations during the day to employ their leisure in reading for first degrees in arts and pure sci. or to engage in res. with a view to taking higher degrees in these facs. While the coll is primarily intended for evg and pt-time students, undergrads may in their final yr be admitted to full-time study and postgrad students wishing to devote the whole of their time to their res are also accepted.

FACULTIES AND DEANS (1961-62) *Arts*, Dr D. J. A. Ross (French), *sci*, Dr R. G. Cooke (maths)

LIBRARY. 76,000 vols.

ADMISSION. See p 953 and Appendix III.

FIRST DEGREES (of Univ of London). The coll provides courses for degrees of the Univ of London as listed below 3 yrs.—BA (gen), BSc (gen), 3 or 4 yrs.—BA (hons) in classics, Dutch, Engl, French, geog, German, Greek (with Latin), hist, Latin (with Greek), maths, philos, philos & psychol, psychol, or Spanish, 4 yrs.—BSc (spec) with, as main subj, bot, chem, geog, geol, maths, phys, psychol, or zool

HIGHER DEGREES (of Univ. of London) MA and PhD in classics, Engl, French, German, geog, hist, maths, philos, psychol, Spanish, MSc and PhD in bot., chem, crystallog, geog, geol, maths, phys, psychol, zool. Lecture courses for MA and MSc in maths, MSc in crystallog., and MA and MSc in occupnl. psychol

DIPLOMAS Awarded by Univ. of London. Postgrad numerical analysis, psychol., stats, each 1 yr full-time or 2 yrs. pt.-time.

ADVANCED STUDIES Res facilities are offered to full-time and pt-time students in all depts. Enquiries should be directed to the hd of the dept concerned or to the registrar

FEES Annual composition fees (incl. union membership) arts (incl maths in both facs), £24, sci. (incl geog and psychol. in both facs), £30 Postgrad work arts, pt-time, £18, whole-time, £55, sci, pt-time, £24, whole-time, £70

PUBLICATIONS *Prospectus* (post free), *Calendar*, 2s 6d, *Report* (annual), *Haldane Memorial Lectures*, *Foundation Orations*, *Inaugural Lectures*, 2s 6d. each, *Lodestone* (students), Delisle Burns, *History of Birkbeck Coll.*, Univ. of London Press, 1924; E. H. Warrington, *A History of Birkbeck Coll. during the Second World War 1939-45*, Birkbeck Coll, 1954. Copies of all publicns. may be obtained from the coll

THE YEAR 1960

RESIGNATIONS A. J. T. Colin (numerical automation), apptd to computer unit, Lond

DEATHS Dr S. P. F. Humphreys-Owen (lectr in phys)

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	120	1006
Women	43	388
Total	163	1394

Distribution by Faculties *Arts*, 793, *sci*, 764.
Total 1557.

Included in the figures above are:—

Postgraduate students, 517

New admissions, 410

Students (full-time and pt-time) from other countries, 166 (Country from which largest number came India, 39)

DEGREES AWARDED (by Univ. of London) (1959-60) *Arts*. BA, 8, BA (hons), 67, MA, 11; PhD, 6 *Sci*. BSc, 31, BSc (spec), 50, MSc, 19; PhD, 20

[Information compiled as at 16/8/61 ;
 Senior Staff names revised Nov 1961]

IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

Founded 1907

Postal Address Prince Consort Road, S Kensington, London, S W.7, England

Cables and Telegrams Imperial College, London, S.W.7

Telephone . Kensington 5111

VISITOR—H.M. THE QUEEN

CHAIRMAN OF THE GOVERNING BODY—The Rt Hon THE VISCOUNT FALMOUTH

RECTOR—SIR PATRICK Linstead, CBE, DSc, DIC, FRS

PRO RECTOR—Professor P M S BLACKETT, MA Camb, FRS

DEAN OF THE ROYAL COLLEGE OF SCIENCE—Professor H JONES, PhD Leeds & Camb, FRS

DEAN OF THE CITY AND GUILDS COLLEGE—Professor O A SAUNDERS, MA Camb, DSc(Eng), FIP, FRS

DEAN OF THE ROYAL SCHOOL OF MINES—Professor J C MITCHELSON, CBE, BSc Burn, FGS

SECRETARY AND CLERK TO THE GOVERNORS—...

REGISTRAR—E F. CUTCLIFFE, MBE, MA Oxon

FINANCIAL SECRETARY—A E SAVAGE, MA Oxon

DEVELOPMENT SECRETARY—A. A. BATH, BSc(Econ) Belf

DOMESTIC BURSAR—C C SEAFORD, MC, BA Camb

LIBRARIAN—C W H CURRIE, MA Camb, LLB, FLA

TEACHING STAFF

[†=Part-Time]

Aeronautics

.. Zaharoff Prof, Hd. of Dept
 Argys, J. H., DE Munich, DSc(Eng),
 FRAeS (Aeronaut Structures) †Prof.
 .. (Aeronaut Structures) Reader
 Stollery, J H, MSc, DIC (Aeronaut) Reader
 Irving, F G, MEng Lw, DIC Sr Lectr
 Jackson, G, MA Camb, DIC Sr Lectr
 Lectr
 Throsby, P W, BEng Syd
 (Aeronaut Structures) Lectr
 Taylor-Russell, A J, BSc(Eng), DIC Lectr
 Slann, P A Lectr
 Thomas, K, BSc(Eng) PhD
 (Aeronaut Structures) Lectr
 Kelsey, S, BSc(Eng)
 (Aeronaut Structures) Lectr.
 Chan, A S L, BSc Chiao-Tung, MSc, Lectr
 DIC
 † Temp Lectr, † Demur

Bacteriology, see Bot

Biochemistry, see Bot

Biology, see Bot, Zool

Botany and Plant Technology

James, W. O, MA DPhil Oxon., FRS
 Prof, Hd. of Dept.
 Potter, Mrs. Helen K, DSc, DIC, FRS
 (Plant Physiol.) Prof.
 Chain, E B., DPhil Berl., MA DPhil Oxon.,
 PhD Camb, FRS (Biochem.) Prof
 Buston, H W, DSc, DIC (Biochem) Reader
 Jacobs, S E, DSc PhD (Bacteriol) Reader
 Wood, R K. S., BSc PhD, DIC
 (Plant Pathol.) Reader
 Rutter, A. J., BSc PhD (Ecol) Reader
 Edelman, J., PhD BSc (Enzym.) Reader
 Whitehead, F. H., MA DPhil Oxon.
 (Exper. Taxonomy) Reader
 ... (Plant Physiol.) Reader
 Greenwood, A. D., BSc Sr. Lectr.
 Levy, J F, BSc (Timber Technol.) Lectr.
 Wheeler, B E. J., PhD (Plant Pathol.) Lectr.
 Russell, J., BSc PhD (Biochem.) Lectr.
 Madelin, M. F., PhD, DIC (Mycol) Lectr.
 Kershaw, K A., BSc PhD (Ecol) Lectr.
 Alvin, K. L., PhD, FLS (Palaeobot.) Lectr.

U.K.—ENGLAND (LONDON)

Gay, J L, BSc *Leeds*, PhD *Nott*
(Bacteriol) Lectr

Hannay, J W, PhD BSc *Mane*
(Plant Physiol) Lectr

Threlfall, R. J., BSc PhD
(Genetics) Lectr

Dadd, A. H., PhD BSc
(Bacteriol) Lectr

Dalby, D. H., BSc PhD
(Timber Technol) Lectr

Dickerson, A. G., BSc
4 Demrs Asst Lectr

Chemistry

Barrer, R. M., PhD ScD *Camb*, DSc *N Z*,
FRIC, FRS (Phys. C) Prof, Hd of Dept.

Wilkinson, G., PhD, DIC (Inorg. C.) Prof.

Barton, D. H. R., DSc PhD, FRS (Org. C.) Prof

Tomplins, F. C., DSc PhD *Bust.*, FRS
(Phys. C) Prof

Theobald, L. S., MSc, FRIC
(Analyt. C) Reader

Welch, A. J. E., PhD, DIC
(Inorg. C.) Reader, Asst. Dir.

Owen, I. N., DSc PhD, FRIC (Org. C) Reader

Jackman, L. M., MSc PhD *Adel.*
(Org. C.) Reader

Rogers, D., BSc PhD
(Chem. Crystallog) Reader

Gordon, M., PhD DSc, FRIC (Phys. C) Reader

Roberts, E. R., JP, PhD, DIC
(Inorg. C) Sr Lectr

Elvidge, J. A., PhD, DIC (Org. C) Sr Lectr

Herringshaw, J. F., PhD, DIC, FRIC
(Inorg. C) Lectr.

Atkinson, B., PhD BSc, DIC (Phys. C) Lectr

Cornfield, A. H., MSc PhD, DIC, FRIC
(Agric. C) Lectr

Rees, L. V. C., BSc PhD (Phys. C) Lectr

Hills, G. J., PhD (Phys. C) Lectr

Jacobs, P. W. M., MSc PhD (Phys. C) Lectr

Barrie, J. A., PhD BSc
(on leave) (Phys. C.) Lectr

Evans, D. F., BA DPhil *Oxon*
(Inorg. C) Lectr

Waight, E. S., PhD, DIC (Org. C) Lectr

Poe, A. J., MA BSc
(on leave) (Inorg. C) Lectr

Dunne, Anne, MSc (Inorg. C) Lectr.

Turner, D. W., BSc PhD, DIC
(Org. C) Lectr

Sutherland, J. K., BSc PhD (Org. C) Lectr

Pratt, L., BA DPhil *Oxon* (Inorg. C) Lectr

Spiro, M. (Phys. C) Lectr.

Wood, J. L., MA *Camb*, PhD (Phys. C) Lectr

Parsonage, N. G., MA *Camb*, DPhil *Oxon*
(Phys. C) Lectr

Mason, R., PhD (Inorg. C) Lectr

Goodgame, D. M. L., BA *Camb*, BSc
DPhil Lectr.

Walkley, J., BSc PhD (Phys. C) Lectr

Hayward, D. O. Asst. Lectr

Kirby, G. W., MA PhD (Org. C) Lectr

Lown, J. W., BSc (on leave) Asst. Lectr

Morrison, G. A., BSc PhD *Glas*
(Org. C) Lectr.

Gillard, R. D., BA *Oxon*. Asst Lectr.

Beckwith, A. L. J., BSc *Adel.*, DPhil *Oxon*
Asst Lectr

Sklarz, B., PhD MA *Oxon* Asst Lectr

Kerr, I. S., BSc PhD
(Phys. C) Res. Asst (Lectr.)

Ash, R., MSc *Lond*
(Phys. C) Res. Asst (Lectr.)

Engineering, Chemical and Technology, Chemical

Ubbelohde, A. R. J. P., MA DSc *Oxon*,
FRS (Thermodynamics) Prof, Hd of Dept

Denbigh, K. G., MA PhD DSc, FRIC
(Chem. Engin. Sci.) Prof

Rowlinson, J. S., BSc MA DPhil *Oxon.*,
FRIC (Chem. Tech.) Prof

Buigoyne, J. H., DSc PhD, DIC, FRIC
(Chem. E.) Courtauld's Prof

Hall, G. R., BSc, FRIC (Nuclear Tech.) Reader

Wilman, H., PhD DSc, DIC, FIP
(Appl. Chem. Phys.) Reader

Strickland-Constable, R., MA DPhil *Oxon.*
(Chem. E.) Reader

Wilson, M. J. G., PhD BSc, DIC
(Fuel Technol.) Sr Lectr

Sargent, R. W. H., BSc PhD
(Chem. E.) Sr Lectr

Cullis, C. F., MA DPhil *Oxon*, BSc,
FRIC (Combustion) Sr Lectr

Weinberg, F. J., PhD, DIC
(Combustion) Sr Lectr

Sawistowski, H., BSc PhD, DIC
(Chem. E.) Sr Lectr

Eisenklam, P., MEngSc *Melb*, PhD, DIC,
FSS (Fluid Kinetics) Sr Lectr

Barrett, L. R., MA BSc *Oxon*, MS *Ill*
(Silicate & Ceramics Technol) Lectr.

Anderson, G. H., BSc (Chem. E.) Lectr

Weale, K. E., PhD, DIC
(High Pressure Technol) Lectr

Bett, K. E., BSc PhD
(High Pressure Technol) Lectr

Swallow, A. J., PhD *Burm & Camb*
(Nuclear Technol) Lectr

Parry, G. S., PhD
(Chem. Phys. of Solids) Lectr

Long, V. D., BSc PhD, DIC
(Fuel Technol) Lectr

Mathews, H. I., OBE, MC, BSc, FLS
(Electron Microscopy) Sp. Lectr.

McLaughlin, E., MSc PhD, DIC
(Chem. Phys. of Liquids) Lectr

Evans, H. D., BSc PhD
(Radiation Hazards) Lectr.

Munday, G., BSc Lectr

Young, D. A., PhD Lectr

Rippin, D. W. T., MA PhD *Camb* Lectr.

Cloete, F. L. D., MSc
(Nuclear Technol) Lectr

Affleck, W. S., BA *Oxon*. Asst Lectr.

Nagle, J. F. M., BSc, DIC Asst. Lectr.

Fish, A., BA Asst. Lectr

Anolick, C., BSc *Cape T* Asst Lectr

Westerberg, A. W., BSc Asst Lectr.

Strat, M, BSc Asst Lectr
 Counish, A R H Asst. Lectr
 Shahbenderian, A P, MA Camb †Sp. Lectr

Engineering, Civil

Skempton, A W, DSc(Eng), DIC, MICE, FRS Prof, Hd of Dept
 Baker, A L L, DSc(Eng), MICE (Concrete Structures & Technol) Prof.
 White, C M, DSc(Eng) PhD (Fluid Mechanics & Hydraulic Engin) Prof.
 Sparkes, S R, MSc Brst, PhD, DIC, MICE (Engin. Struct.) Prof.
 Stephenson, A, OBE, MA Camb (Surveying) Reader
 Flint, A R, BSc(Eng) PhD (Struct. Steelwork) †Reader
 Bruce, F. E., SM Hare, MSc(Eng), DIC (Pub Health Engin.) Reader
 Ashby, R J, MSc(Eng), DIC Reader
 Wolf, P O, BSc(Eng) (Engin Hydrol) Reader
 Bishop, A W, MA Camb, DSc(Eng) PhD (Soil Mech) Reader
 (Fluid Mech) Reader
 Brown, E H., BSc PhD, DIC (Struct Analysis) Reader
 Henderson, J C de C., DIC (Reinf Concrete Structures) Reader
 Chapman, J C, PhD Sr Lectr.
 Henkel, D J, BSc PhD Sr. Lectr
 Ainsworth, H., MA Camb Sr. Lectr.
 Malkowski, Z. S., DipEng Warsaw, PhD, DIC Sr Lectr.
 Chitty, Letitia, MA, DIC, FRAeS Lectr.
 Newman, K, BSc(Eng) Lectr.
 Jowitt Fox, G T, BE Sheff. Lectr
 Edwards, A, BSc(Eng) Lectr
 Gent, A R, BSc PhD Lectr.
 O'Donnell, T, MA Camb. Lectr.
 Agnew, R, PhD Belf Lectr
 Ambraseys, N N, DipIng Athens, PhD, DIC Lectr
 Munro, J, BSc, DIC Lectr
 Cassell, A C, BSc(Eng), DIC Lectr
 Minton, P, BSc(Eng) Lectr
 Gibson, R. E., BSc(Eng) PhD, DIC Lectr
 Moigsten, N, BSc Tor Lectr
 Hardwick, J. D., BASc Tor Lectr
 Mantoh, B G, BSc(Eng), DIC Sp Lectr.

Engineering, Electrical

Jackson, Sir Willis, DSc Manc, Hon. DSc (Eng) Brst, Hon. DEng Sheff., Hon DrScTech Zuo, Hon. LLD Aberd, DPhil Oxon, MIEE, FIP, FRS (Electr. Engin) Prof, Hd. of Dept.
 Tustin, A, MSc, MIEE (Heavy Electr Engin) Prof
 Gabor, D, DrIng Berl, MIEE, FRS (Appl Electron Phys.) Prof
 Cherry, E C., DSc(Eng) (Telecomms.) Prof.
 Westcott, J. H., BSc PhD, DIC (Electr Engin.) Prof.

Adkins, B, MA Camb, DSc(Eng), MIEE

Morris, D G O., DSc Wales Reader
 Boothroyd, A. R., BSc PhD, DIC (Electronics) Lectr

Urwin, C R. (Measurements) Sr Lectr
 Hopkin, D. W. (Electr Machines) Sr Lectr
 Kayser, H D, BSc Lectr
 Rutenberg, D, BSc Lectr
 Prigmore, B J, MA Camb, MSc, DIC Lectr
 Barker, J R, PhD Lectr
 Carpenter, C J., MSc(Eng) Lectr.
 Roberts, J, BSc(Eng) (on leave) Lectr
 Blackman, P F, BSc Lectr
 Heasell, E, BSc Lectr
 Birss, R. R., PhD Nott. Lectr.
 Mayne, D. Q., MSc S A Lectr
 Sayers, B. M., MSc PhD Lectr
 King, R. A., MA Lectr
 Cory, B J., BSc(Eng) Lectr.
 Jones, D., MA PhD Lectr
 Allen, P H. G., BSc(Eng) Lectr
 Gundry, P M, BSc PhD Lectr
 Ghosh, D H, BSc(Eng) Lectr
 Das, M B., MSc Lectr
 Bates, J. J., BSc PhD Lectr
 Anderson, J C, PhD MSc Lectr
 Salmon, J. W, MSc Lectr
 Page, D F. Lectr
 Howl, J. M., MA Camb Lectr

Engineering, Mechanical

Saunders, O A., MA Camb, DSc(Eng), MIMechE, FRAeS, FIP, FRS Prof, Hd of Dept
 Ford, H, DSc(Eng) PhD, MIMechE (Appl Mech) Prof
 Neal, B. G., MA PhD Camb (Appl. Sci. with sp rel to Engin) Prof.
 (Nucleu Power) Prof.
 Spalding, D B., MA Oxon, PhD Camb (Heat Transfer) Prof.
 Glaister, E. E., PhD MSc(Eng), DIC Reader
 Grant, P J., PhD Camb (Engin Sci) Reader
 Martin, B. W., PhD Durh, MSc Brst (Appl Thermodyn) Reader
 Moore, N P W., BSc(Eng), DIC Reader
 Eilon, S., DipIng Hayfa, PhD, DIC (Production Engin) Reader
 Alexander, J M, PhD, DIC (Plasticity) Reader
 Hoyle, R. D., BA Camb, PhD Reader
 Grootenhuys, P., BSc(Eng) PhD, DIC Reader
 Chalk, J T., MSc, DIC Sr Lectr
 James, J. W., PhD, DIC Sr Lectr
 De Malherbe, M C, PhD, DIC Sr Lectr
 Turner, C E., BSc(Eng) PhD Sr Lectr
 Treharne, T. L. G., BSc(Eng) Sr Lectr.
 Cole, E H, BSc(Eng) Lectr
 Shelton, A., BSc(Eng) PhD, DIC Lectr.
 Cameron, A., PhD Lectr.
 Singham, J R, PhD BSc(Eng) Lectr.
 Brewer, R C, BSc(Eng) Lectr
 Lewis, J. C., BSc(Eng) Lectr

Lectr	Geophysics, Applied	
Lectr	Bruckshaw, J M, MSc PhD, DIC	Prof
Lectr	Mason, R G, MSc PhD, DIC	Lectr
Lectr	Hall, S H, MSc PhD, DIC	Lectr
Lectr	Taylor-Smith, D, BSc PhD, DIC	Lectr.

Mathematics

Geochemistry, Applied

Geology

Fraenkel, L. E., MSc	(Theoret. Aerodynam.) Reader
Lloyd, E. H., BSc PhD, DIC	Sr Lectr
Gordon, A. N., MSc PhD	Sr Lectr
Talbot, A., MA <i>Camb</i> , PhD	Sr Lectr
Preidel, E. E., MSc, DIC	Lectr
Mautner, A. J., BSc	Lectr
Hepner, W. A., PhD <i>Edin.</i>	Lectr
Fairbrother, H., MSc	Lectr.
Wagner, A., MA <i>Oxon</i> , PhD	Lectr
Burnett-Hall, D. G., MA <i>Camb</i>	Lectr
Jenkins, G. M., BSc PhD	(on leave) Lectr
Kovan, T., PhD	Lectr
Michaelson, S., BSc	Lectr.
Tanner, Mrs Rosalind C. H., PhD	Lectr
Austin, M. C., BSc	Lectr
Thompson, R. S. H. G., BSc	Lectr.
Dowker, Mrs. Yael N., MA <i>Yohns H</i> , PhD <i>Hav</i>	Lectr.
Stephenson, G., PhD BSc, DIC	Lectr
Hochberg, S., PhD BSc	Lectr
Hall, G. G., PhD BSc	Lectr
Penrose, O., PhD BSc	Lectr.
Adler, J., MSc PhD	Lectr.
Hum, D. M., BSc, DIC	Lectr
Baker, I. N., MSc <i>Adel</i>	Lectr.
Warren, F. W. G., BSc	Lectr
Farlie, D. J., BSc	Lectr

Metallurgy

Ball, J. G., BSc, FIM (Phys. M.) Prof., Hd. of Dept
Richardson, F. D., DSc PhD, FIM (Extraction M.) Prof
Fisher, M. S., DSc PhD Reader
Pratt, P. L., BSc PhD *Camb* (Phys M) Reader
Bradshaw, A. V. BSc (Extraction M) Reader

Alcock, C. B., BSc PhD, DIC
(Chem. M.) Reader
Harris, R. H., BSc(Eng) Sr. Lectr.
Tweeddale, J. G., FIM Lectr.
Thomas, D. L., BSc *Wales*, PhD Lectr.
Bell, R. L., BSc PhD Lectr.
Bailey, A. R., MSc (Engn. M.) Lectr.
Selfe, F. L., FRIC Lectr.
West, D. R. F., PhD BSc, DIC Lectr.
Pantony, D. A., PhD BSc, FRIC Lectr.
Sawyer, H. D., BSc Lectr.
Burkin, A. R., PhD MSc, FRIC Lectr.
Crane, F. A. A., Lectr.
Johnson, A. A., MA BSc Lectr.
Leach, J. S. L., BSc PhD Lectr.
Hills, A. W. D., BA *Camb.* Lectr.
Newey, C. W. A., PhD *Burm* Lectr.
Tomlinson, J. W., PhD, DIC Res Fellow

Meteorology

Sheppard, P. A., BSc, FIP Prof., Hd. of Dept.
Eady, E. T., BA *Camb.*, PhD (Phys. Climatol.) Reader
Ludlam, F. H., DIC Reader
Hunt, J. N., PhD, DIC (Phys. Oceanog.) Reader
Green, J. S. A., BSc Lectr.

Mining and Mineral Technology

Mitcheson, J. C., CBE, BSc *Burm.*, FGS Prof., Hd. of Dept.
Fleming, M. G., BSc PhD (Mineral Technol.) Prof.
Sheppard, J. S., OBE, BSc(Eng) (Mine Surveying) Reader
Kitchener, J. A., BSc PhD (Sc. of Min. Proc.) Reader
Allen, G. K., BME *Melb* Reader
Thomas, T. L., MBE, BSc PhD Sr. Lectr.
Jennings, H., BSc(Eng) Lectr.
Blyth, H. N., BA, FRIC Lectr.
Bray, J. W., BSc PhD Lectr.
Ottley, D. J., BSc(Eng) Lectr.
Stepco, W. A., DiplEng(Min) Lectr.
Melgren, O., ScD *M.I.T.*, DipTech *T.H.* Lectr.
Trondheim
Grøntson, A., BSc(Eng) Lectr.
Cohen, E., MSc PhD Lectr.
Dallender, J. A., BSc(Eng) Lectr.
Sutton, D., BSc(Eng) Lectr.
Prosser, A. P., BSc PhD, DIC Lectr.
Moncreiff, A. G., BA *Camb.*, BSc Lectr.

Physics

Blackett, P. M. S., MA *Camb.*, FRS Prof., Hd. of Dept.
Wright, W. D., DSc, DIC (Tech. Optics) Prof.
McGee, J. D., OBE, MSc *Syd.*, PhD *Camb.*, FIP (Instrument Technol.) Prof.
Butler, C. C., PhD BSc, FRS (Phys.) Prof.
(Solid State P.) Prof.
Blackman, M., MSc *S.A.*, PhD *Göteborg* & *Lond.*, DIC (Phys.) Prof.

Salarn, A., MA PhD, FRS (Theoret. P.) Prof.
Elliot, H., PhD MSc *Manc* (Phys.) Prof.
Mason, B. J., DSc (Cloud P.) Prof.
Matthews, P. T., MA PhD Prof.
Wynn-Williams, C. E., PhD *Camb.*, MSc *Wales*, DSc (Phys.) Reader
Pearse, R. W. B., BSc PhD, DIC, FIP (Spectroscopy) Reader
Klemperer, O., PhD *Berl* (Phys.) Reader
Johnson, B. K., DIC (Tech. Optics) Reader
Stephens, R. W. B., PhD, DIC, FIP (Acoustics) Reader
Wilcock, W. L., BSc PhD *Manc* (Instrument Technol.) Reader
Clegg, J. A., PhD BSc *Manc*, FIP (on leave) (Phys.) Reader
Latham, R., MA *Camb.*, PhD (High Temp. P.) Reader
Garton, W. R. S., BSc (Spectroscopy) Reader
Hopkins, H. H., PhD, DIC, FIP (Optics) Reader

Allan, H. R., MA *Camb.*, PhD Sr. Lectr.
Barford, N. C., MA *Camb.*, BSc Sr. Lectr.
Welford, W., PhD BSc (Tech. Optics) Sr. Lectr.
Newth, J. A., BA *BSc* Sr. Lectr.
Coles, B. R., DPhil *Oxon*, BSc *Wales* Sr. Lectr.
Goldsack, S. J., BSc PhD Sr. Lectr.
Kellner, Charlotte, PhD Lectr.
Aharoni, J., PhD *Berl* Lectr.
Butterworth, I., BSc PhD Lectr.
Lagarten, N. D., BSc PhD, DIC Lectr.
Twiddy, N. D., PhD (Instrument Technol.) Lectr.
Wheeler, C. B., BSc (High Temp. P.) Lectr.
Astbury, J. P., MA MSc PhD Lectr.
Pam, H. J., MSc (High Temp. P.) Lectr.
Folkierski, A., PhD (High Temp. P.) Lectr.
Thorne, Lady Anne, MA DPhil *Oxon* (Spectroscopy) Lectr.
Parfitt, G. G., BSc PhD, DIC Lectr.
Mandel, L., PhD (Instrument Technol.) Lectr.
Wilson, R. L., MSc Lectr.
French, B. R., BSc Lectr.
Quenby, J., PhD, DIC Lectr.
Binnie, D. M., BSc PhD Lectr.
Haines, M. G. Lectr.
Bradley, D. J., BSc (Instrument Technol.) Lectr.
Kibble, T. W. B., MA BSc PhD *Edm.* (Theoret. P.) Lectr.
Sneater, R. F., BSc PhD, DIC Lectr.
Davison, M., MA DPhil *Oxon* Lectr.
Park, J. G., MA DPhil *Oxon* (Solid State P.) Lectr.

Zoology and Applied Entomology

Richards, O. W., MA DSc *Oxon*, FRS Prof., Hd. of Dept.
Peters, B. G., MSc *Brist.*, PhD (Parasitol.) Prof.
Hewer, H. R., MSc, DIC (Zool.) Reader
Page, A. B. P., PhD (Appl. E.) Reader
Way, M. J., MA (Appl. E.) Reader
Brown, Mrs. Lille E., PhD BSc Lectr.
Murray, D. R. P., MA PhD *Camb.* Lectr.
Gorvett, H., PhD *Brist.* Lectr.

Waloff, Nadejda, PhD
 Davies, R G, MSc, DIC
 Higgins, A E H, DIC
 Kermack, Doris M, BSc PhD, DIC
 Boratynski, K, PhD *Poznan*
 Goto, H. E., BSc (on leave)
 Southwood, T R. E., BSc PhD
 Blackth, R. E., BSc PhD
 Siddons, J W., BSc
 Wilson, Mrs Elizabeth, BSc PhD, DIC
 Lewis, C T., MA PhD
 Call, F, PhD BSc
 Hague, N G, BSc
 Dempster, J. P., BSc PhD, DIC

Lectr. Mahon, June, DSc *Neuchâtel*, BSc
 Lectr. Asst Lectr.
 Lectr.
 Lectr.
 Lectr.
 Lectr.
 Lectr.
 Lectr.
 Lectr.
 Lectr.
 Lectr.
 Lectr.
 Lectr.
 Lectr.
 Lectr.

AGRICULTURAL RESEARCH COUNCIL UNIT OF PLANT PHYSIOLOGY

Porter, Prof Helen K, DSc, DIC, FRS Dir.
 Research Staff
 Keys, A J., PhD
 Martin, R V.
 Ellis, R J., BSc
 Mer, C. L., PhD
 Bird, I. F., BSc

ADMINISTRATIVE AND OTHER STAFF

ADMINISTRATIVE OFFICERS Dep Registrars
 E G S Hollings, J Taylor, BSc(Econ). Supt
 of Vacation Studies A G. E Meacock Gen
 Studies Sec C K. McDowell, BA *Oxon*. Asst
 Financial Sec. E. Fairhurst, MA *Oxon*. Ac-
 countant F. W G Annas Supplies Officer
 R. J. K. Harley Planning Officer: C. C Moore,
 MA *Camb*. Construction Officer P. E Mee,
 BSc(Econ) Maintenance Officer A C Single-
 ton Asst. Maintenance Officer. T H Lewis

MEDICAL OFFICER. C Grey, MB BCh *Oxon*.
 SENIOR TUTOR (women students) Lady Anne
 Thorne, MA DPhil *Oxon*
 SENIOR WARDEN A Stephenson, OBE, MA
Camb
 WARDENS Beit Hall, F. G Irving, MEng,
 DIC, Selkirk Hall, C C Seaford, MC, BA
Camb, Weeks Hall, J F Levy, BSc

GENERAL INFORMATION

The coll. was founded by royal charter in 1907 'to give the highest specialized instructn. and to provide the fullest equipment for the most advanced trg. and res in various branches of sci, especially in its appln. to industry' It is a federation of 3 instns. of earlier origin—the Royal Coll. of Science, the Royal Sch of Mines and the City and Guilds Coll The coll was admitted as a sch of the Univ of London in 1908

The three constituent colls have kept their identity, and, closely linked within the Imperial Coll framework, they divide the work of the Imperial Coll. between them The Royal Coll of Science conducts the work in pure scis. chem, phys., maths, bot, zool, geol. and meteorol; the Royal Sch of Mines concentrates on mining, mineral technol., metall, mining geol, oil technol and appl geophys, the City and Guilds Coll. is concerned with the main branches of engin: aeronaut, chem, civil, electr and mech

The coll was selected in 1953 to be the spearhead of the national attack on the problem of providing more univ.-trained scientists and engineers The coll agreed to double its size, to provide for 3000 students and to carry out this operation in 10 yrs By the beginning of the session 1960-61 student numbers had risen to a total of 2683 and over 44 new posts as prof or reader in the Univ of London had been established and filled at the coll

The main academic devel is taking place on the 16-acre site bounded by Queen's Gate, Prince Consort Rd, Exhibition Rd and Imperial Insti-

tute Rd. The expansion plan involves major new bldgs and many alterations and adaptations in those existing The first new bldg, to house the depts of aeronautics and chem engn, was opened in 1957, while a further projects, a new bldg for phys. and the first section of a large new mech. engn block, were completed and occupied during the session 1959-60. New bldgs for the depts of civil engn. and electr. engn. as well as the second stage of the new mech. engn. block are in the course of constructn, and are scheduled for completion in the session 1961-62 A large scheme for new halls of residence was made possible by the acquisition in 1956 of the neighbouring Prince's Gdns The first new hall, provided through the generosity of Messrs. Vickers Ltd, was opened in Sept 1959, and, on the south side of Prince's Gdns, work is now in progress on 4 more halls and gen. refectory facilities which are due for completion in 1962

ADMINISTRATION. The admin of the Imperial Coll is vested in a governing body of 52 members representing the crown, the self-governing countries of the Commonwealth, the Minister of Educn, the Univ of London, the London County Council, the City and Guilds of London Inst., the Royal Commissioners for the Exhibition of 1851, the Royal Society, the teaching staff of the Imperial Coll, and professional socs The rector of the Imperial Coll and the deans of the 3 constituent colls are members *ex officio*

INCOME (1959-60) Total income £2,366,801

(govt grants, 75 per cent; self-balancing res contracts, 14 per cent; fees, 6 per cent; other sources, 5 per cent)

LIBRARIES Each dept has its own library for reference and loan. Central library services are provided in the Lyon Playfair library (93,000 vols.) The Haldane library (7500 vols.) is the non-sci library. In addn the library of the Science Museum is available for the use of students

Large FIELD STATION at Silwood park nr. Ascot, MINE at Tywarthale nr. Truro

ADMISSION See p 953 and Appendix III. The conditions of admission are in accordance with univ requirements and the procedure is in general accordance with the recent recommendations of the Cttee of Vice-Chancellors and Principals; details in coll prospectus

The min age for admission is 17. Women are admitted on the same terms as men.

FIRST DEGREES (of Univ of London) AND **DIPLOMAS** The same courses and exams serve for the coll associateship and for the BSc (spec.) or BSc(Eng) degree of the Univ of London Courses for degrees with hons (each 3 yrs) are as follows. BSc (spec) and ARCS in bot., chem., geol., maths, phys., zool.; BSc (spec) and ARSM in mining geol., oil technol., BSc(Eng) and ARSM in metall., mining, mineral technol., BSc(Eng) and ACGI in aeronaut. engin., chem engin., civil engin., elect. engin., mech engin.

HIGHER DEGREES (of Univ of London) AND **DIPLOMAS** Courses of 1st and advanced study open to grads of other univs and leading to the PhD in a min of a calendar yrs from BSc, to the MSc and also to the DIC, are given in the following depts and sub-depts. of the coll: aeronautics (aerodynamics, aeronaut structures & aircraft propulsion), bot & plant technol (analyt cytol., bacteriol., biochem., ecol., microbiol., plant pathol., plant physiol., taxonomy); chem engin & chem technol. (chem engin., chem engin sci., combustion, fuel, high pressure, low temperature, ceramic & nuclear technol., chem phys.), chem (phys., org., inorg., analyt.), civil engin (concrete technol., engin. hydrol., highways, hydraulic engin & fluid mechanics, hydro power, pub. health, soil mechanics, struct engin.), elect engin (appl electron phys., automatic control systems, communics & electronics, elect machines & power systems, elect traction), geol (appl geophys., engin geol., geochem., micropaleontol & palaeo-ecol., mining geol., mineral exploration, oil technol., petroleum reservoir engin.), maths (mathl phys., pure maths., appl maths., stats, numerical analysis), mech engin (appl mechanics, thermal power & process engin., nuclear power, production engin., operational res & management studies), metall (extraction metall., phys metall.), meteorol., mining & mineral technol. (mining, mineral technol.); phys (high energy phys., theoret. phys., cosmic ray phys., electron phys., technical

optics, instrument technol., cloud phys., high temperature phys., spectroscopy, acoustics, ionc magnetism); zool & appl entomol (entomol., appl entomol., parasitol., nematol.)

Postgrad courses open to grads of other univs and leading to the DIC normally in 1 yr from BSc and in some cases to the MSc are given in aeronautics, bot & plant technol (microbiol., plant pathol.), chem engin & chem technol (chem engin., chem technol., indust safety, nuclear technol (chm)), chem (analytical chem.), civil engin (struct engin., concrete structures & technol., livido-power engin., engin hydrol., highway engin., pub health engin., soil mechanics), elect engin. (elect. machines & power systems, communics & electronics, automatic control systems & allied subjects, appl. electron phys., elect. traction), geol (engin. geol., micropaleontol & palaeo-ecol., mineral exploration, appl. geophys., petroleum reservoir engin.); maths (mathl phys., pure maths., appl maths., numerical analysis, stats), mech. engin (appl. mechanics, thermal power & process engin., nuclear power, prodn engin., operational res & management studies), meteorol., mining, phys (tech optics, photo-electronics), zool & appl entomol (appl entomol., nematol.)

In collaboration with LSE the coll arranges postgrad studies in technol., econ and admin. The courses in pub health engin are run in conjunction with the London School of Hygiene

ASSOCIATIONS WITH OTHER INSTNS An arrangement has been made for the exchange of staff and students with the Swiss Federal Inst of Technol., Zurich, and for exchange studentships with the Techn. Hochschule Aachen, and with a German univ. The Massachusetts Inst of Technol also stands in special relationship to the coll.

FEES. Registration (undergrad), £2, entrance (postgrad), £2, tuition, undergrad and postgrad res. and courses (incl union membership) sci and engin., £64 p.a. (postgrad course in nuclear power, £124 p.a.).

Note: tuition fees will be increased to £75 p a from Oct 1962 (subject to review)

ACADEMIC YEAR Oct to June 3 terms of 10 wks each.

SCHOLARSHIPS Royal scholcs, entrance scholcs and exhibitions for undergrad courses awarded on an exam held at schs., sp scholcs available in mining

POSTGRADUATE AWARDS open to grads of other univs. see p 808

APPOINTMENTS BOARD The coll appts bd assists associates and members of the coll to find employment on the completion of their coll courses

GRADUATES' ASSOCIATIONS Each constituent coll has its own old students' assocn, namely, the Royal Coll of Science Assocn, the Royal Sch of Mines Assocn and the Old Centralians Assocn

The latter perpetuates the original name of the City and Guilds Coll. and has branches in many parts of the world

STUDENT RESIDENCES Beat Hall, Prince Consort Rd., London, S W 7 (96 men, 17 women), fees £50-£60 p.a., Weeks Hall, Prince's Gdns, S W 7 (66 m), fees £66 p.a., Garden Hall, 12 Prince's Gdns, S W 7 (26 m), fees £50-£53 p.a., Selkirk Hall, 50 Holland Pk., W 11 (15 m), fees £73-£79 p.a. Catering available for residents in coll refectories at cost of about 10s a day and meals are provided at Selkirk Hall for students living there. Opening in 1962-63 will be 4 new halls of residence in Prince's Gdns (South Side) accommodating 388 men. All enquiries to clerk for halls of residence, Imperial Coll., Prince Consort Rd., S W 7 (tel. Kensington 5111)

STUDENT HEALTH SERVICE The coll health room at 13 Prince's Gdns. has 2 full-time nurses and a doctor attends during certain hours each day. Overseas students are required to undergo a med. exam on entry to the coll.

STUDENTS' UNION The Imperial Coll. union bldg in Prince Consort Rd. is the home of various students' organs incl. the Imperial Coll. union, the Royal Coll. of Science union, the Royal Sch. of Mines union and the City and

Guilds Coll. union. Accommodates refectones, reading rooms, canteen rooms, a concert hall and a gymnasium. The coll bookstall is in the Beat bldg, adjoining the union.

The Imperial Coll. union, guided by the union council, whose members are mainly present students, looks after the leisure side of the student's life and controls and encourages the clubs and socs, about 100 in all, which among them cover all sides of athletic and soc activities.

PUBLICATIONS *Calendar* (5s), *Prospectus*; *Postgrad. Booklet*, individual pamphlets on postgrad courses, *Shorter Postgraduate Courses* (each term), *Careers Pamphlets*, *Annual Report*; *Res. Reports* of the three constituent colls, the Royal Coll. of Science, the Royal Sch. of Mines and the City & Guilds Coll. (publ. by the colls in turn, each coll issuing a report every 3rd yr); *Inaugural Lectures* (bound vols on appn to registrar; individual lectures), 1957 to date (on sale through Modern Book Co. Ltd., 19 Prind St., W 2), *Code of Practice against Radiation Hazards* (2s), *Annual Report of vacation trg. ctee*; *A Short History of the Coll. 1845-1945* (publ. on the occasion of the centenary of the Royal Coll. of Chemistry), *The Royal Charter of the Imperial Coll. of Sci. and Technol.* (publ. on the occasion of the charter jubilee, 1957)

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS See p. 992.

NEW DEPARTMENTS AND CHAIRS Chair of chem. tech. (J. S. Rowlinson); title of prof. of phys. conferred on H. Elliot.

RETIREMENTS A. A. Eldridge, J. T. Hannen, Miss M. Carleton (chem.), F. Howarth (bot.), W. Collins (mech. engin.); J. Newby (supt. vic. studies)

RESIGNATIONS Prof. D. G. Christopherson (mech. engin.), apptd. warden, Durham Colls., B. C. L. Weedon (chem.), to chair of chem. at Queen Mary Coll., A. W. Bright (electr. engin.), apptd. dir., S.A.M.E.S. Ltd., Dr. L. C. F. Blackman (chem. engin.), to chem. services div., British Railways, Dr. E. H. Carman (phys.), apptd. lectr., Townsville Univ. Coll., Australia, F. H. S. Stubbs (phys.), apptd. staff writer, New Scientist, Dr. J. C. Taylor (phys.), apptd. lectr., Camb., R. Agnew (civil engin.), to Belf., G. G. Haseldon (chem. engin.), to Brotherton chair of chem. engin., Leeds; W. F. Jepson (zool.), to industry

DEATHS Dr. C. C. V. Batts (lectr. in bot. & plant phys.); K. W. Wardrop (lectr. in electr. engin.)

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	2564	120
Women	119	2
Total	2683	122

Distribution by Faculties. *Engin.*, 1451, *sci.*, 1232. Total 2683

Included in the full-time student numbers above are —

Postgraduate students, 1010

New admissions, 1036

Students from other countries, 602 (Countries from which largest numbers came: India, 93, Canada, 80, Pakistan, 42, S. Africa, 25).

DEGREES AWARDED (by Univ. of London) (1959-60) *Engin.* BSc(Eng), 291; MSc(Eng), 30, PhD, 44, DSc, 2. *Sci.* BSc, 191, MSc, 29; PhD, 132, DSc, 6. Total number of first degrees awarded, 482.

DIPLOMAS, ETC. AWARDED (1959-60) *Engin.* ARSM, 51, ACGL, 242, DIC, 242. *Sci.* ARSM, 15; ARCS, 172, DIC, 185

[Information compiled as at 18/8/61]

KING'S COLLEGE

Founded 1829

Postal Address Strand, London, W C 2, England

Telephone Temple Bar 5454

CHAIRMAN OF THE DELEGACY—The Hon. Sir ARTHUR J. P. HOWARD, KBE, CVO

TREASURER—Sir ANGUS GILLAN, KBE, CMG, MA *Oxon*PRINCIPAL—P. S. NOBLE, MA *Aberd & Camb*, Hon LLD *Aberd*DEAN—Rev. Canon S. H. EVANS, MA BD *Durh*.SECRETARY—I. P. SHAW, MA *Oxon*.LIBRARIAN—K. GARSIDE, MA *Leeds*REGISTRAR—J. T. COMBRIDGE, MA *Camb*

TEACHING STAFF

[†=Part-Time]

Anatomy, Descriptive and Surgical			
Nicol, T, DSc <i>Glas & Lond</i> , MD <i>Glas</i> , FRCS, FRCSEd	Prof.	Symonds, Kathleen V, BSc PhD	Lectr
Wakeley, Sir Cecil, Bt., KBE, Hon LLD <i>Glas</i> , DSc, FRCS, FRCSEd	†Lectr	Wilkins, M. B, BSc PhD	Lectr
Bilbey, D. L. J., TD, MB BS PhD	Reader	Barton, R, MSc PhD	Lectr.
McMinn, R. M. H., MD <i>Glas</i> , PhD <i>Sheff</i>	Reader	Keys, Miss Jessie E, BSc <i>Durh</i> , PhD	Asst Lectr
Mackinnon, I. L., MB ChB <i>N Z</i>	Sr Lectr	Cresswell, C. F., BSc <i>Rhodes</i> , MSc <i>Brist</i>	Asst Lectr
Charles, L. M., BSc MB BCh <i>Wales</i>	Lectr	Chemistry	
Cordingley, J. L., MB BS <i>Syd</i>	Lectr.	Hey, D. H., MSc <i>Wales</i> , DSc <i>Mane</i> , PhD, FRIC, FRs	Daniell Prof
Broad, C. P., MB BS	Lectr	Style, D. W. G., BSc PhD	Prof
Dummer, W. F.	Lectr	Robertson, A. J. B., MA PhD <i>Camb</i>	(Phys C) Reader
Cooper, D. W. G., BA BM BCh <i>Oxon</i>	Lectr.	Gold, V, DSc	(Phys.-Org C) Reader
Vernon-Roberts, B., MB BS	Lectr	Crombie, L., DSc, FRIC	(Org C) Reader
Curson, I., BDS		Dolley, L. G. F., TD, BSc PhD	Sr Lectr.
(Sp. Dental Anat. & Histol.)	†Lectr	Beattie, I. R., BSc PhD	Lectr.
Kennedy, J. A., MB BS (Radiol. Anat.)	Lectr	Hulme, R., BSc MA <i>Oxon</i> , FRIC	Lectr.
		Cadogan, J. I. G., BSc PhD	Lectr.
Biochemistry		Rees, C. W., BSc PhD	Lectr
Harris, H., MA MD <i>Camb</i>	Prof	Satchell, D. P. N., BSc PhD	Lectr.
Bell, E. A., BSc <i>Durh</i> , MA PhD <i>Dub</i>	Lectr	Coe, J. S., MSc PhD	Lectr.
Darbre, A., BSc PhD <i>Birm</i>	Lectr	Pascock, T. E., BSc PhD <i>Durh</i>	Asst Lectr
Blau, K. H. F., BSc PhD	Lectr	Perkins, M. J., BSc	Asst. Lectr,
Whittaker, Mary, MSc PhD	Lectr.		
Spencer, N., BSc <i>Leeds</i> , PhD	Lectr		
		Classics, see also Hist. and Anc.	
		Magunness, W. S., MA <i>Dub</i> .	(Latin) Prof
		Winnington-Ingram, R. P., MA <i>Camb</i> , FBA	(Greek) Prof
		Handford, S. A., MA <i>Oxon</i>	Reader
		Gossage, A. J., MA <i>Oxon</i> , PhD	Lectr.
		Hamsworth, J. B., MA <i>Oxon</i> .	Lectr.
		Courtney, E., BA <i>Dub</i> , MA <i>Oxon</i> .	Lectr
		Lintott, A. W., BA <i>Oxon</i> .	Asst Lectr
		McNelly, Mary, BA <i>Oxon</i>	Asst. Lectr
		Divinity	
		Nincham, D. E., MA <i>Oxon</i> .	Prof

U.K.—ENGLAND (LONDON)

- Ecclesiastical History**
 Dugmore, C. W., MA DD *Oxon* Prof
 Collinson, P., MA *Camb.*, PhD Asst Lectr
- Education**
 Judges, A. V., BA DSc(Econ) (Hist. of E.) Prof.
 Beales, A. C. F., MA Reader
 Blackwell, Mrs. Annie M., BSc MA Sr Lectr.
 Brown, P. P., BA *Oxon.* Sr Lectr.
 King, E. J., MA *Manc.*, PhD Lectr.
 Wakeford, Mrs. Dorothy A., BA Lectr.
 Murray, Mrs. Freda M., BSc Lectr.
 Parish, E. Launs, MA Lectr
- Engineering, Chemical**
 Watkins, S. B., MSc *Wales*, FRIC Reader, Dir. of Studies
 Morris, D. R., BSc *Birm.*, PhD Lectr
- Engineering, Civil**
 Ross, A. D., BSc PhD *Edm.*, MICE Prof
 Nash, J. K. T. L., MAI MA *Dub* Prof
 Zarck, J. M., BSc *St And.*, PhD (Engin. Sci.) Reader
 Kenn, M. J., MAsSc *Tor.*, BSc(Eng), MEIC Lectr
 Jenkins, W. McL., BSc PhD *Glas* Lectr
 Dixon, R. K., MSc(Eng) Lectr
 Ilston, J. M., BSc(Eng) Lectr
 England, G. L., BSc(Eng) Asst. Lectr
- Engineering, Electrical**
 Greig, J., PhD *Birm.*, MSc(Eng), MIEE Siemens Prof
 Arnold, A. H. M., PhD DEng *Liv.*, MIEE Prof
 Fraser, W., MSc(Eng), MIEE Lectr
 Platt, G. H., MScTech *Manc.* Lectr.
 Desley, E. M. S., BSc PhD Lectr
 Freeman, E. M., BSc(Eng) Asst Lectr.
- Engineering, Mechanical**
 Kastner, L. J., MA *Camb.*, MSc *Manc.*, MIMechE Prof
 Rose, H. E., PhD *Manc.*, DSc(Eng), MIMechE (Powder Tech.) Prof
 Williams, T. J., MSc *Birm.*, BSc PhD Reader
 Pattison, R., BSc(Eng), MIMechE Sr. Lectr
 Gosney, W. B., BSc(Eng) Lectr
 Powell, E. J., BSc(Eng) Lectr
 Smith, A. A., MA PhD *Camb.* (Metall.) Lectr
 Tindal, M. J., BScTech *Manc* Lectr
- English Language and Literature**
 Bullough, G., MA *Manc.* Prof.
 Garmonsway, G. N., MA *Camb.*, FSA (E. Lang.) Prof
 Armstrong, W. A., MA *Sheff.*, PhD *Yale* Reader
 Crow, J. W., MA *Oxon* Lectr
 Sheard, J. A., BA PhD (Philol.) Lectr
 Yarker, P. M., MA Lectr
 Mutter, R. P. C., MA *Oxon.* Lectr
- Hill, R. F., BLitt *Oxon.*, BA Lectr
 Waldron, R. A., MA Lectr
 Mottram, E. N. W., MA *Camb.* (American Lit.) Lectr
 Pearsall, D. A., MA *Birm.* Asst Lectr
 Fison, J. P., MA *Oxon* Asst Lectr
- French**
 Cocking, J. M., MA Prof.
 Hackett, W. Mary, MA *Oxon. & Manc.*, DPhil *Oxon* (Romance Philol.) Reader
 Landers, W. M., TD, BA PhD Sr Lectr.
 Weightman, J. G., BA *Durh.*, L&L *Poitiers*, PhD Lectr
 Barron, Jean D., BA PhD Lectr
 Smith, F. R., BA *Oxon.* Lectr
 Johnson, A. H., MA *Wales* Asst Lectr
 Stables, E., MA Asst Lectr
 Clarke, D. R., BA *Camb.* Asst Lectr
 ... Asst Lectr
 2 Assts
- Geography**
 (In conjunction with staff of London School of Economics)
 Wooldridge, S. W., CBE, DSc, FRS Prof
 Pugh, J. C., MA *Camb.*, PhD Reader
 Coleman, Alice M., MA Lectr.
 Elkins, T. H., BA Lectr
 Yates, E. M., MSc PhD Lectr
 Bird, J. H., BA PhD Lectr
 Brunson, D., BSc Asst. Lectr
- Geology**
 Taylor, J. H., AM *Harv.*, BSc PhD, FGS, FRS Prof
 Pitcher, W. S., BSc PhD Reader
 Prentice, J. E., BSc PhD Lectr
 Elwell, R. W. D., MSc PhD Lectr
 Hancock, J. M., MA PhD *Camb.* Lectr
 Jones, D. G., MSc *Wales* Lectr
 Richardson, J. B., BSc PhD *Sheff.* Asst Lectr.
 Hall, A., BSc Asst Lectr
- German**
 Norman, F., OBE, MA, FSA Prof.
 Gilbert, Mary E. C. M., DPhil *Berl.* Reader
 Thoma, H. H. K., DrPhil *Munch* Sr. Lectr
 Middleton, J. C., MA DPhil *Oxon.* Lectr
 Graham, Mrs. Ise, BA PhD Lectr
 Beckley, R. J., BA Asst Lectr
 McInnes, E. O'H., BA Asst Lectr
 2 Lektors
- Greek, Modern, and Byzantine History, Language and Literature**
 Kornes Prof.
- History, see also Greek, and Eccles. Hist.**
 Williams, C. H., MA *Camb.* Prof
 Graham, G. S., MA *Qu.*, AM *Harv.*, PhD *Camb.* (Imperial H.) Rhodes Prof

Howard, C H. D., MA *Oxon.*
 Hodgett, G A J, MA
 Duggan, C, PhD *Camb*, BA
 Flint, J E, MA *Camb*, PhD
 Roseveare, H G., BA *Camb*
 Brown, R A, MA DPhil *Oxon*, FSA
 Marshall, P J, BA *Oxon*
 Roy, I., MA *St And.*
 Wagner, Sir Anthony, KCVO, DLitt *Oxon*,
 FSA (Heraldic Studies) Hon Adviser

History, Ancient

Scullard, H H, MA *Camb*, PhD, FBA,
 FSA Prof.

History and Philosophy of Religion

Lewis, H D, MA *Wales*, BLitt *Oxon* Prof.
 Parrinder, E G., MA DD
 (Compar Study) Reader
 Lectr

Law

Graveson, R H, SJD *Harv*, LLD *Sheff.*
 & *Lon.*, PhD Prof
 Crane, F. R., LLB (English L) Prof
 Nokes, G D, LLB Prof
 Kiraft, A K R, LLM PhD Reader
 James, T E, MA BCL *Oxon*, PhD Reader
 Davies, C E P, MA BCL *Oxon*. Sr. Lectr.
 Wellwood, J W, MA *Dub.* Lectr.
 Draper, G I A D, LLM Lectr
 Morrison, C A, MA *Aberd*, BA *Oxon* Lectr
 Chloros, A G, MA *Oxon* Lectr
 Hughes, A D., MA BCL *Oxon* Lectr
 Hickling, M A, LLB PhD Asst Lectr.
 Farrand, J. T., LLB Asst. Lectr.
 Michaels, Mrs. Naomi E., LLB Asst. Lectr
 Cockram, Gail-Maryse G. E., LLM Asst Lectr

Mathematics, Pure and Applied

Semple, J G, MA *Belf.*, PhD *Camb.* Prof.
 Bondi, H, MA *Camb.*, FRS Prof.
 Scott, D B, MA *Camb*, DSc Reader
 Frohlich, A, BSc PhD *Brist*. Reader
 Kilmister, C W, MSc PhD Reader
 Saffman, P. G, MA PhD Reader
 Pirani, F A E, BSc *W. Ont*, MA *Tor.*,
 DSc *Carnegie Tech*, PhD *Camb* Reader
 Edwards, B. A, CBE, MSc *Wales* Sr. Lectr.
 Tims, S R, PhD *Camb.*, MSc Lectr.
 Reeve, J E, MSc Lectr.
 Rosenblatt, S, MSc PhD *Syd* Lectr.
 Tyrrell, J A, BSc PhD Lectr.
 Ashton, Winifred D, BSc MA *Leeds* Asst Lectr.
 Thompson, A. H, BSc Asst Lectr

New Testament Studies

Evans, C F., MA *Camb* (from Oct 1962) Prof.

Old Testament Studies

Ackroyd, P. R., MA PhD *Camb*, MTh
 Samuel Davidson Prof.

Paleography

Brown, T J, MA *Oxon*, FSA Prof

Pharmacology

Brownlee, G., DSc *Glas*, PhD Prof.
 Paterson, G, BSc *Glas*, PhD Lectr
 Wilson, A B, BSc PhD MB BS Lectr
 Birmingham, A. T, BSc MB BS Lectr.

Philology, see English, and French**Philosophy**

Findlay, J N, MA *Oxon.* & *S.A.*,
 PhD *Graz*, FBA Prof
 Vesey, G N A, MA MLitt *Camb* Lectr
 Pole, D. L. S, BA *Oxon* & *Lon.*, PhD Lectr
 Ashby, R W., BA PhD Asst Lectr.

Physics

Randall, J T, DSc *Manc*, FRS, FIP
 Wheatstone Prof.
 Domb, C, MA *Camb.* & *Oxon*, PhD *Camb.*
 (Theoret P) Prof.
 Price, W C, ScD *Camb*, FIP, FRS
 (Exper. P.) Prof.
 Champion, F C, MA PhD *Camb.*, FIP
 (Exper. P) Prof.
 Chapman, F. W, MSc PhD Sr. Lectr.
 McEwen, Marjorie B., PhD *St And*, BSc
 Stokes, A R, MA PhD *Camb.* Sr. Lectr.
 Curling, C D., MA *Camb* Lectr.
 Burge, E J, BSc PhD *Brist*, MA *Oxon*,
 FIP Lectr
 Fisher, M E, BSc PhD (Theoret P.) Lectr
 Wilkinson, G. R, BSc PhD Lectr.
 Dean, P. J., BSc PhD Lectr
 Danielian, A, BSc PhD *Not.* Asst. Lectr.
 Giles, R. A, BSc Asst. Lectr.
 3 Demrs

Biophysics

Randall, J. T, DSc *Manc.*, FRS, FIP
 Prof., Hon Dir. of Sub-Dept.
 Wilkins, M. H F, MA *Camb.*, PhD *Birm*,
 FRS Hon. Lectr.
 Burge, R. E, BSc PhD Lectr.
 Coombes, J. D., BSc PhD *Brist*. Lectr.
 Silvester, N R, BSc PhD Asst. Lectr.

Physiology

D'Silva, J. L., MB BS DSc, MRCP Prof.
 Buller, A. J, BSc MB BS Reader
 Mendel, D., MD, MRCP Lectr.
 Speers, R. L., BSc PhD *Durh.* Lectr.
 Taylor, A, BSc MB BS Lectr
 Lewis, D M., BA MB BChir *Camb* Lectr
 Winterton, M C, MB BS Lectr.
 Dunne, J F., BSc MB BS Lectr

Portuguese

Boxer, C R., Hon. DLitt & Phil *Utrecht* &
Lisbon, FBA Camoens Prof.
 Rebelo, L de S., Licem Let *Lisbon*,
 MA *Coimbra* Lectr.

Romance Philology, see French

Spanish Studies

Parker, A. A., MA Camb	Cervantes Prof
Hamilton, Mrs. Rita, L&L Lalle, BA	Sr Lectr
Nadal, R. M., LicinLaw Madrid	Lectr
Sage, J. W., MA	Lectr
Cummins, J. S., BA PhD	Lectr
Thompson, Jennifer, BA	Asst. Lectr.
Thompson, Jennifer, BA	

Theology, see p 1037

Zoology and Animal Biology

Danielli, J. F., PhD Camb & Lond	DS, FRS	Prof
Dawes, B., DSc		Reader
Arthur, D. R., MSc Wales, DSc		Reader
Bell, L. G. E., BSc PhD		Lectr
Cox, C. B., MA, Ovon, PhD Camb		Lectr
Bainard, E. A., BSc PhD		Lectr
Wolpert, L., BSc(Eng) Rand, PhD		Lectr
Cox, F. E., BSc Exe.		Asst Lectr
Hawkins, Shirley E., BSc PhD		Asst Lectr.
Cole, R. J., BSc		Asst. Lectr.
		Asst Lecti.

ADMINISTRATIVE AND OTHER STAFF

Accountant · R. A. Chappell Bursar
W. B. E. Euden, BA Chaplain Rev. P. E.
Coleman, LLB. Tutor to Women Students :

Helen M. Hudson, MA Durh., DUDyon.
Wardens · King's Coll. Hall, E. Courtney, MA,
Halliday Hall, J. B. Hainsworth, MA

GENERAL INFORMATION

Founded by royal charter in 1289 for 'instrucon in the various bianches of literature and sci. and the doctrines and duties of Christianity', King's Coll. consisted at first of a sch and depts. of general lit., sci and med, to which were added successively engin, theol and oriental depts. The hosp was built in 1839; the evg. classes were started in 1856, and a women's dept in 1881. In 1910 the coll sch. became a separate corporation, the hosp and advanced med. sch were made indep., the other depts (except the theol.) doing work of univ standard were incorporated in the Univ of London with the name of Univ of London King's Coll, while the council remained the governing body of the theol dept, which became a sch of the univ. The coll as a whole retained the name of King's Coll, London. In 1915 the arts and sci depts of King's Coll for Women, previously housed in Kensington, were transferred to the Strand bldg of King's Coll, and the household & soc. sci dept to new bldgs on Campden Hill. The dept. of household & soc sci became a separate instn in 1928 under the title of King's Coll of Household and Soc Sci, now Queen Elizabeth Coll. In 1917 the oriental dept was transferred to the new Sch of Oriental Studies. The Sch. of Slavonic and East European Studies, founded in 1915, was constituted a separate dept. of the univ in 1932.

CONSTITUTION Univ. of London King's Coll, consisting of the five facs named below, is incorporated in the Univ of London, and is governed by a delegacy of the senate. It is also, with King's Coll Theol. Dept (see p 1037), an integral part of King's Coll, London. The principal of King's Coll, London is apptd by the crown, the dean of King's Coll. Theol Dept, elected by the council, is equally dean of the whole coll. The sec., librarian and registrar also serve the whole coll

and are apptd by the governing bodies jointly. The fac of arts includes profs. of div and eccles hist.

FACULTIES AND DEANS Arts, Prof C R Boxer (Portuguese), engin, Prof A D Ross (civil engin.); laws, Prof R H Graveson, med sci., Prof T Nicol (anat), nat. sci., Prof D W. G. Style (chem).

LIBRARIES (about 200,000 vols) In addn to the general library there are the following ap libraries (1) the Marsden (philol), (2) Wheatstone (electr and kindred subjects), (3) Skeat and Furnivall (philol & Engl lit.), (4) Ronald Burrows library (medieval & mod Greek), (5) Frida Mond (Goethe & German lit.), (6) T R R Stebbing (zool), (7) F D Maurice collection, (8) the Box library (Semitic studies). There are also the following deptl libraries anat & physiol, bot, chem engin, chem, classics, educn., electr engin, engin (civil & mech), French, geog, geol., German, hist, imperial hist, laws, maths, war studies, palaeog., pharmacol., phys, Portuguese, Spanish, zool.

LABORATORIES AND MUSEUMS Anat (Hughes collection), comp anat, biol, bot., chem., chem engin, engin, geol. & mineral, mat med, metall., pharmacol, phys., physiol (incl biochem & histol), zool; Halley Stewart labs of phys. res., 30 Chesterford Gdns, N W 3, bot out-stn., 68 Half Moon Lane, S E 24, plant physiol lab, Danehurst, Champion Hill, S E 5.

ADMISSION (see p 953 and Appendix III) Applicants for admission to the French or German honrs sch. or for chem are required to take an entrance test in their schs. Applicants for bot or zool. have a practical test when called for interview. In general the coll does not admit students who have still to complete with the univ's requirements

for entry on their respective degree courses, but it does admit to inter courses in fac of laws

Applicants from Indian or Pakistani students, whether for undergrad or for postgrad work, must be made through the office of the appropriate high commissioner

Owing to restrictions on space, occasional students cannot be admitted to undergrad courses unless they are from univs with which King's Coll has exchange arrangements in mod langs

FIRST DEGREES (of Univ of London) The coll provides 3-yr courses for degrees of the Univ. of London as listed below BA (gen), BSc (gen), BA (hons) in classics, Greek (with Latin), Latin (with Greek), Engl, French, geog, German, hist, maths, philos, Portuguese, Spanish, theol may be taken for BA (gen), LLB, BSc (spec) in bot, chem, geog, geol, maths, phys or zool, psychol. for BSc (gen) by inter-coll arrangement, BSc(Eng)

Pre-clin courses for 2nd MB BS (5 terms) Clin med trg at King's Coll Hosp, St George's Hosp or Westminster med. schs

Evg classes in fac of laws

HIGHER DEGREES (of Univ of London). MA, LL.M, MSc, MSc(Eng), PhD in above 1st degree subjs, MA in educn, MSc and PhD also in biochem or pharmaco.

DIPLOMA Awarded by Univ of London academie dipl in educn (2 yrs full-time or 3 yrs. pt-time) Awarded by the coll. coll. dipl in chem engin (1 yr. full-time)

CERTIFICATE Awarded by Univ. of London postgrad cert in educn (1 yr)

The ASSOCIATESHIP of King's Coll (AKC) is open to men and women who have graduated after 3 yrs' course and have also attended prescribed course in divinity and passed appropriate exams

RESEARCH AND ADVANCED STUDY Special facilities in Engl (incl bibliog), hist (esp anc, mediev., mod and colonial, and war studies), paleog, Portuguese, Spanish, mod Greek, educn and several depts of sci All facs accept students for postgrad courses A med res clin.

unit provides res and teaching in conjunction with the dept of phys. and sub-dept of biophys

FEES Undergrad (incl union membership) arts, £50 p a (£55 if maths or geog incl.), laws, £30 p a (evg), £50 p a. (day), sci, £65 p a (£55 for BSc(spec) in maths or geog), med, £65 p a, engin, £70 p a (incl lab fee) Postgrad. arts, MA or PhD in geog, £57 for each of first 2 sessions, £17 a session thereafter, MA or PhD in other subjs, £37 for each of first 2 sessions, £12 a session thereafter, laws, LL.M, £50 for each of first 2 sessions, PhD, £37 a session, sci, MSc or PhD in maths, £37 for each of first 2 sessions, £12 a session thereafter, MSc or PhD in geog, £57 for each of first 2 sessions, £17 a session thereafter, MSc or PhD in mathl. or theoret phys, £47 for each of first 2 sessions, £14 a session thereafter, MSc or PhD in other subjs, £67 for each of first 2 sessions, £20 a session thereafter; med, MSc or PhD, £67 for each of first 2 sessions, £20 a session thereafter; engin, MSc or PhD, £67 for each of first 2 sessions, £20 a session thereafter

ENTRANCE SCHOLARSHIPS in all facs

POSTGRADUATE AWARDS open to grads. of other univs. see p. 808

RESIDENCE. Halliday Hall, South Side, Clapham Common, London, S W 4 (tel. Tulse Hall 5780), for 133 men, fees, £140 to £155 a session King's Coll Hall, Champion Hill, London, S E 5 (tel. Brixton 2558), for 110 men, fees, £130 to £145 a session

A REGISTER OF FORMER STUDENTS is maintained. Membership of the King's Coll. London Assn. enables former students to keep in touch with one another and with the coll

STUDENTS' UNION SOCIETY has its own premises in Chesham House, Sursey St., W C 2.

PUBLICATIONS Separate prospectus for each fac, post free *Calendar*, 10s. 6d post free, King's Coll *Review*; union soc. *Handbook*; King's *Engineer*, King's *Counsel*; King's Coll. London Assn. *Mag.*, F J. C. Hearnshaw, *History of King's Coll.* (Harrap, London, 1931; o/p.).

THE YEAR 1960

PRINCIPAL BENEFACTIONS Wellcome Trust, £120,000 towards cost of lease of bldg to be converted for dept of biophys

RETIREMENTS Prof W Robson (biochem and sub-dean, fac of med)

RESIGNATIONS Rev J H Churehill (chaplain), apptd to living in Sheffield, Dr J L Cloudsley-Thompson (zool), apptd to chair of zool, Univ of Khartoum, Dr D D Davies (bot), apptd to post in Commonwealth Sci and Indust Res Orgn, Sydney, Prof R J H Jenkins (Kornes prof of mod Greek), apptd to chair of Byzantine hist at Harvard Univ. Res Inst, Dr D M A

Leggett (maths), apptd principal, Battersea Coll. of Technol., Dr D M MacKay (phys), apptd to Granada res chair in communications, N Staffs; P McKelvie (anat.), apptd casualty officer, St Mary's Hosp, London; Dr Sidnie M. Mantion (zool), to full-time res.; Dr W F Widdas (physiol), apptd prof of physiol, Bedford Coll., Lond.; Dr G. H. Williams (chem.), apptd. reader in org chem, Birkbeck Coll., Lond.; Prof F Wormald (paleog.), apptd dir, Inst. of Hist Res., Lond

DEATHS Sir Ernest Barker (principal, 1920-1927).

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1646	132
Women	550	38
Total	2196	170

Distribution by Faculties Arts, 885, *engin.*, 232, *law*, 288, *med*, 337, *sci*, 624 Total 2366

Included in the figures above are —

Postgraduate students, 424 (340 full-time, 84 pt.-time)

New admissions, 825

Students from other countries, 177 (Countries from which largest numbers came: Nigeria, 28, U S A, 23, Canada, 11)

DEGREES AWARDED (by Univ of London) (1959-60). Arts: BA (gen), 11, BA (hons), 140; MA, 4, PhD, 3 *Engin* BSc(Eng), 61, MSc(Eng), 3, PhD, 4 *Law* LLB, 56, LL.M., 4, PhD, 1 *Sci* BSc (gen), 32, BSc (pass), 2, BSc (spec) hons, 113; PhD, 33 Total number of first degrees awarded, 415

DIPLOMAS AWARDED (by Univ of London) (1959-60) Academic dipl in educn, 7

CERTIFICATES AWARDED (by Univ of London) (1959-60) Postgrad cert in educn, 84

[Information compiled as at 21/8/61]

LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

Founded 1895

Postal Address . Houghton Street, Aldwych, London, W C 2, England

Cables and Telegrams Poleconics, Estrand, London

Telephone . Holborn 7686

CHAIRMAN OF COURT OF GOVERNORS—The Rt. Hon LORD BRIDGES, GCB, GCVO, MC, MA Hon DCL Oxon, Hon DLitt R'dg, Hon LLD Camb, Brist. & Lond, FRSE

VICE-CHAIRMAN—F. E. HARMER, CMG, MA

DIRECTOR—SIR SYDNEY CAINE, KCMG, Hon LLD Malaya, BSc(Econ)

SECRETARY—H. KIDD, MA Oxon & Camb

DEPUTY SECRETARY AND ACCOUNTANT—H C SCRIVEN, FCA, FCIS

DEPUTY SECRETARY AND BURSAR—W S COLLINGS, BA

REGISTRAR—J ALCOCK, BA Manc

LIBRARIAN—G. WOLEDGE, BA Leeds

TEACHING STAFF

(†=Part-Time)

Accounting, see Econ.

Anthropology, Social

Furth, R. W., MA N.Z., PhD, FBA Prof.
Schapera, I., MA Cape T, DSc, FRSSAF, FBA Prof.

Freedman, M., MA PhD Reader
Mair, Lucy P., MA Camb, PhD (Appl A) Reader

Benedict, B., AB Harv, PhD Lectr
Lancaster, Mrs Lorraine F., BA Syd, DipSocAnthrop Lectr

Morris, H S, BSc Edn, DipSocAnthrop Lectr
Stirling, A P, MA DPhil Oxon Lectr
Forge, J A. W., MA Camb. Asst. Lectr.

Business Administration, see Econ.

Criminology

Williams, J E. H., LL.M Wales Reader

Demography

Cairner, N H., MA Camb. Reader
Hajnal, J., MA Oxon Reader

Economics (including Accounting and Business Administration)

Bauer, P. T., MA <i>Camb</i> (E. of Underdeveloped Countries & E Development) Prof.	Mishan, E. J., BA <i>Mane</i> , PhD <i>Chic</i> , MSc(Econ) Lectr
Baxter, W. T., BCom <i>Edin.</i> , CA (Acctg.) Prof	Opie, R. G., MA <i>Adel</i> , BA BPhil <i>Oxon</i> †Lectr
Devons, E., MA <i>Mane</i> (Internat Trade) Prof	Peston, M. H., BSc(Econ) Lectr.
Edwards, R. S., BCom DSc(Econ) (Indust. Org.) Prof., Hon. Lectr	Steuer, M. D., BSc MA <i>Col</i> Lectr
Paish, F. W., MC, MA <i>Camb</i> . (Bus Finance) Prof	Thurley, G. F., BCom Lectr.
Phelps Brown, E. H., MBE, MA <i>Oxon</i> , FBA (E of Labour) Prof	Williams, G. P., MBE, BCom (Admin, Org. & Cognate Bus. Studies) Lectr.
Phillips, A. W., MBE, BSc(Econ) PhD (on leave) (Econ Sci & Stats) Toole Prof	Woods, J. H., BSc(Econ) (Acctg.) Lectr
Plant, Su Arnold, BSc(Econ) BCom (Bus Admin) Cassel Prof	Ayie, P. C. I., BSc(Econ) Asst Lectr
Robbins, Rt Hon Lord, CB, MA <i>Oxon</i> , Hon D Litt <i>Durh</i> & <i>Exe</i> , Hon LHD Col, Hon LLD <i>Camb</i> , <i>Leic</i> & <i>Stras</i> , Hon Dr T U <i>Luton</i> , BSc(Econ), FBA †Prof	Bandyopadhyay, D., BSc(Econ) Asst Lectr
Sayers, R. S., MA <i>Camb</i> & <i>Oxon</i> , FBA (Money & Banking) Cassel Prof	Cassen, R. H., BA <i>Oxon</i> Asst Lectr
Yamey, B. S., BCom <i>Cape T</i> Prof.	Grant, J. A. G., BA <i>Tor</i> Asst Lectr
Day, A. C. L., BA <i>Camb</i> . Reader	Kennedy, M. H., BA <i>Tor</i> , CA Asst Lectr
Edey, H. C., BCom (Acctg.) Reader	Kuska, E. A., BA <i>Idaho</i> Asst Lectr
Foldes, L. P., BCom MSc(Econ) Reader	Ladler, D. E. W., BSc(Econ) MA <i>Syr</i> Asst Lectr
Knox, A. D., BA <i>Tor</i> (E of Underdeveloped Countries) Reader	Marquand, Mrs Judith M., MA <i>Oxon</i> . Asst Lectr
Lancaster, K. J., MA BSc <i>Syd.</i> , BSc(Econ) PhD Reader	Oldershaw, Mrs Diana M. T., BSc(Econ) Asst Lectr, Advisor to Women Students
Lipsy, R. G., BA <i>Br Col</i> , MA <i>Tor</i> , PhD Reader	Shaffer, J., BSc(Econ) <i>Penn</i> Asst Lectr
Makower, Helen, BA <i>Camb</i> , PhD (Internat Trade) Reader	Thomas, J. J., BSc(Econ) Asst Lectr
Morton, G., BSc(Econ) PhD (Operational Res.) Reader	
Nove, A., BSc(Econ) (Russian Soc. & Econ Studies) Reader	
Ozga, S. A., PhD Reader	
Penrose, Mrs. Edith T., AB <i>Calif.</i> , MA PhD <i>Yohns H</i> (Nr & Middle East) Reader	
Ponsonby, G. J., MA <i>Camb</i> (Transport) Cassel Reader	
Pressnell, L. S., BSc(Econ) PhD (Money & Banking) Reader	
Townsend, H., BSc(Econ) Reader	
Turvey, R., BSc(Econ) (Pub. Finance) Reader	
Wiseman, J., BSc(Econ) Reader	
Rose, H. B., BCom Dir of Studies, Course in Indust. Financing	
Alford, R. F. G., BSc(Econ) Lectr	
Anstey, Mrs Vera, DSc(Econ) †Lectr	
Archibald, G. C., MA <i>Camb.</i> , BSc(Econ) Lectr	
Brooker, R. P., LLB (Acctg.) Lectr.	
Corry, B. A., BSc(Econ) PhD Lectr	
Crossley, J. R., BSc(Econ) Lectr	
Gould, J. R., BSc(Econ) Lectr.	
Kerrigan, Mrs Jean, BSc(Econ) †Lectr.	
Klappholz, K., BSc(Econ) Tutor, Course in Econ & Soc Admin, Lectr	
Martin, Anne, MA <i>Oxon</i> . (Agric E.) Lectr.	

2 K 2

English (as a foreign language)

Chapman, R., MA *Oxon* & *Lond* Lectr

French, see Mod Langs.

Geography

Buchanan, R. O., MA <i>N.Z.</i> , BSc(Econ) PhD Prof.	
Wise, M. J., MC, BA PhD <i>Burm</i> Prof, Chairman of Admissions Cttee.	
Stamp, L. D., CBE, Hon. LLD <i>Clark</i> , BA DSc DLit Prof. Emer, Hon. Lectr.	
Harrison-Church, R. J., BSc(Econ) PhD Reader	
Jones, E., MSc PhD <i>Wales</i> (Soc. G.) Reader	
Clayton, K. M., MSc <i>Sheff</i> , PhD Lectr.	
Estall, R. C., BSc(Econ) Lectr.	
Lambert, Audrey M., BA PhD Lectr.	
Martin, J. E., BSc(Econ) Lectr.	
Odell, P. R., BA PhD <i>Burm</i> , AM <i>Tufts</i> Lectr	
Rawson, R. R., BSc <i>Wales</i> Lectr	
Sealy, K. R., MSc(Econ) PhD Lectr.	
Sinclair, D. J., MA <i>Edin</i> Lectr.	
Hamilton, F. E. I., BSc(Econ) Asst Lectr	
Jackson, C. I., MSc <i>McG</i> , BA Asst Lectr.	

German, see Mod Langs

History, Economic

Carus-Wilson, Eleanora M., MA Prof.	
Fisher, F. J., MA Prof.	
Coleman, D. C., BSc(Econ) PhD Reader	
John, A. H., PhD <i>Camb.</i> , BSc(Econ) Reader	
Barker, T. C., MA <i>Oxon</i> , PhD <i>Mane</i> . Lectr	
Bridbury, A. R., BSc(Econ) PhD Lectr.	
Brown, Lucy M., MA <i>Camb</i> , PhD Lectr	
Carter, Mrs Alice M. C., MA Lectr.	
Euckson, Charlotte J., MA PhD <i>Corn</i> . Lectr.	

Mingay, G. E., BA PhD *Nott*
 Potter, J., MA(Econ) *Manc.*
 Stern, W. M., BSc(Econ)
 Waley, D. P., MA PhD *Camb*
 Alford, B. W. E., BSc(Econ) Asst Lectr

History, International

Medlicott, W. N., MA DLit, FRHistS
 Stevenson Prof
 Barraclough, G., MA *Oxon.* Stevenson Res Prof
 Hatton, Mrs Ragnhild M., CandMag *Oslo*,
 PhD, FRHistS Reader
 Anderson, M. S., MA PhD *Edin.* Lectr
 Bourne, K., BA PhD Lectr
 Gottlieb, W. W., MagJur *Raga* Lectr
 Grun, G. A., MA *Camb.* Lectr
 Header, H., BA PhD Lectr
 Lee, Hulda I., MA Lectr
 Watt, D. C., MA *Oxon.* Lectr
 Harcourt, Miss Freda, MA *Rand* Asst Lectr
 Schapiro, Mrs Isobel, BA PhD Asst Lectr

Industrial Relations

Roberts, B. C., MA *Oxon.* Reader

International Relations

Manning, C. A. W., MA BCL *Oxon.*
 Montague Burton Prof.
 Goodwin, G. L., BSc(Econ)
 (Internat Instns) Reader
 Northedge, F. S., BSc(Econ) PhD Reader
 Tunstall, W. C. B., MA *Camb*, FRHistS
 (on leave) Sr Lectr
 Bull, H. N., BA *Syd*, BPhil *Oxon* Lectr
 Chambers, F. P., MA *Camb* Lectr
 James, A. M., BSc(Econ) Lectr
 Banks, M. H., BSc(Econ) MA *Lshigh*
 Asst Lectr
 Stern, G. H., BSc(Econ) Asst Lectr

Law, see also Criminology

Gower, L. C. B., MBE, LL.M.
 (Comm L) Cassel Prof
 Griffith, J. A. G., LL.M.
 (Engl L) Prof
 Johnson, D. H. N., MA LLB *Camb*
 (Internat & Air L) Prof
 Kahn-Freund, O., DrJur *Fran*, LL.M. Prof
 Plucknett, T. F. T., LL.B Hon LittD *Camb*,
 Hon LL.D *Glas.*, MA, FBA
 (Legal Hist) Prof.
 de Smith, S. A., MA *Camb*, PhD (Pub L) Prof
 Wheatcroft, G. S. A., JP, MA *Oxon*
 (Engl. L) Prof
 Grunfeld, C., MA LLB *Camb.* Reader
 Williams, J. E. H., LL.M. *Wales*
 (Criminol.) Reader
 Chorley, Rt Hon. Lord, MA
 †Lectr.
 Diamond, A. L., LL.M. Lectr
 Dworkin, G., LLB *Nott* Lectr
 Mann, M., LLB PhD Lectr
 Stone, Olive M., LL.B BSc(Econ) Lectr
 Valentine, D. G., MA LLB *Camb*,
 DrJur *Utrecht* Lectr
 Aikin Mrs. Olga L., LL.B Asst Lectr

Downey, B. W. M., LL.B Asst Lectr.
 Evans, D. M. E., LL.B *Wales*, BCL *Oxon.*
 Asst Lectr.
 Keenan, P. B., LLB *Manc* Asst Lectr
 Park, A. E. W., BA *Oxon* Asst. Lectr
 Tappei, C. F. H., BA BCL *Oxon.* Asst. Lectr.
 Thomas, D. A., BA LLB *Camb* Asst Lectr
 Thornberry, C. H. R., MA LLB *Camb*
 Asst Lectr

Modern Languages

Scott-James, Mrs Paule H. J.,
 BLitt *Oxon* (French) Sr Lectr
 Guercio, F. M., BA *Lsw.* †Lectr
 Schatzky, Brigitte E., MA (German) Lectr.
 Tint, H., BA PhD (French) Lectr
 Orda, Mrs Mary G., MA *Glas*
 (French) Asst. Lectr
 Smieja, F. L., MA *NUI & Lond*
 (Spanish) Asst. Lectr.

Philosophy, Logic and Scientific Method

Popper, K. R., MA *NZ*, PhD *Vienna*,
 DLit, FBA (on leave) Prof
 Watkins, J. W. N., DSC, MA *Yale*,
 BSc(Econ) (Hist of Philos.) Reader
 Wisdom, J. O., PhD *Dub.* Reader
 Bartley, W. W., AM *Harc* †Lectr
 Lakatos, I., PhD *Bud* Lectr

Politics and Public Administration

Oakeshott, M. J., MA *Camb* Prof.
 Robson, W. A., Hon *DUParis*, *Lille*,
Grenoble & Algiers, BSc(Econ) PhD
 LL.M. (Pub Admin.) Prof.
 Smellie, K. B. S., BA *Camb* (Pol Sci) Prof.
 Bassett, R., MA *Oxon.* Reader
 Greaves, H. R. C., BSc(Econ)
 (Pub. Admin) Reader
 Kedourie, E., BSc(Econ) (Middle East) Reader
 Schapiro, L. B., LL.B
 (Russian Govt & Pol) Reader
 Pickles, W., MA *Leeds* Sr Lectr
 Sharp, Dorothea E., MA *Tor*, DPhil *Oxon*
 Sr Lectr.
 Cranston, M., MA BLitt *Oxon*, FRSL Lectr
 Crick, B. R., BSc(Econ) PhD Lectr
 Miliband, R., BSc(Econ) PhD Lectr
 Minogue, K. R., BA *Syd*, BSc(Econ) Lectr
 Panter-Brick, S. K., BA BPhil *Oxon.*
 Lectr, Dep. Chairman of Admissions Cttee
 Pear, R. H., BSc(Econ) Lectr
 Self, P. J. O., MA *Oxon.*

Tutor, Course in Econ & Soc Admin,
 (Pub. Admin) Lectr
 Beatue, A. J., BSc(Econ) Asst Lectr
 Boyd, T. C., MA *Oxon* Asst Lectr.
 Derry, J. W., MA PhD *Camb* Asst. Lectr.
 Thorp, E., BSc(Econ) Asst. Lectr.
 Wolf-Phillips, L. A., BSc(Econ) Asst. Lectr.

Psychology, Social and Industrial

Himmelwert, Miss Hulde, MA *Camb*,
 PhD Reader

LONDON SCHOOL OF ECONOMICS & POLITICAL SCIENCE 1003

Holmes, R, BA *Exe. & Lond*
 Hotopf, W H N, MA *Camb.*
 Oppenheim, A N, BA *Melb*, PhD
 Price-Williams, D R, BA

Lectr.
 Lectr
 Lectr.
 Lectr

MacRae, D G, MA *Glas & Oxon* Prof
 Bottommore, T B, MSc(Econ) Reader
 Dore, R P, BA (Fai East) Reader
 Gellner, E A, MA *Oxon* Reader
 Gould, S J, MA *Oxon* (Soc Instrns) Reader
 McKenzie, R T, BA *Br. Col*, PhD Reader

Social Science and Administration

Donnison, D V, BA *Oxon* (Soc Admin.) Prof
 Titmus, R M, Hon. DSc *Wales*

(Soc Admin) Prof

Abel-Smith, B, MA PhD *Camb* Reader
 Kydd, Jessie A, MBE, MA
 BCom *Edin* Sr Lectr
 McDougall, Mrs. Kate F.

(Mental Health) Sr Lectr

Secar, Beatrice N, BA *Camb* Sr Lectr
 Bell, Leslie H, MA Lectr.

Butrym, Zofia T (Soc Casework) Lectr

Cockburn, Mrs Christine, MA *Aberd* Lectr

Elkan, Irm J M (Mental Health) † Lectr

Judd, Mrs Helen O, JP, MA *Edin* Lectr.

Slack, Kathleen M., DiplSocSci Lectr

Smith, J H, BA

(on leave) Tutor, Course in Econ &

Soc Admin, Lectr

Russell, Mrs. Katharine F

Organizer of Practical Trg

Thurley, K E., BSc(Econ) (Soc Admin.) Lectr

Townsend, P. B, BA *Camb*

(Soc Admin) Lectr

Winnicott, Mrs Clare | Lectr

Wright, R C, BA *Mane* (Mental Health) Lectr.

Forder, R A D, BA *Camb* Asst. Lectr

Greve, A J, BSc(Econ) Asst. Lectr

Hodgc, P, DipSocStud *Nott* Asst. Lectr.

Myers, E. S Asst. Lectr

Parker, R. A., BSc(Econ) Asst Lectr.

Sociology

Ginsberg, M, Hon. LLD *Glas & Nott*,

MA DLit, FBA † Prof. Emer

Glass, D V, BSc(Econ) PhD Martin White Prof

In addition to the above, a large number of occasional appts is made from year to year.

Birnbaum, N, PhD *Harv.*

Chambers, Rosalind C, BSc(Econ) † Lectr

Morris, T P, BSc(Soc) PhD Lectr

Tropp, A, BSc(Econ) PhD Lectr

Westergaard, J. H, BSc(Econ) Lectr.

Abrams, P, MA *Camb* Asst. Lectr.

Clifford-Vaughan, Mrs Michalina E F,

Dipl *Inst d'Et Pol., Paris* Asst. Lectr.

Falck, A C, BA *Oxon* Asst Lectr.

de Kadit, E J, BSc(Soc) MA *Col* Asst Lectr

Little, A N, BSc(Soc) PhD Asst Lectr.

Newfield, J G H, BSc(Soc) Asst Lectr

Statistics

Allen, R G D, CBE, MA *Camb.*,

DSc(Econ), FBA * Prof.

Durbin, J, MA *Camb* Prof

Foster, F G, BA *Belf*, DPhil *Oxon*

(Stat Computing) Reader

Moser, C A., BSc(Econ) (Soc. Stats.) Reader

Stuart, A, BSc(Econ) Reader

Booker, H S, MSc(Econ) Sr Lectr.

Doug, Alison, BA *BSc Melb* Lectr.

Gales, Kathleen E, BA *Camb.*, MA *Ohio* Lectr.

Land, Mrs. Ailsa H, BSc(Econ) PhD

(Operational Res.) Lectr.

Quenouille, M H, MA *ScD Camb* | Lectr.

Kalton, G G W, MSc(Econ)

(Soc Stats) Asst Lectr.

Smith, T M F, BSc(Econ) Asst. Lectr.

Transport, see also Economics

Ponsonby, G J, MA *Camb.* Cassel Reader

ADMINISTRATIVE AND OTHER STAFF

Careers Adviser Commander D Warren-
 Evans Psychiatric Adviser Dr J C Read
 Advisor to Women Students Mrs Diana M T
 Oldershaw, BSc(Econ) Maintenance Officer.
 S A Godfrey, BSc(Econ) Asst Sec Miss
 Marion Horn, BA *Leeds* Sec of Graduate
 School. Anne M Bohm, PhD *Berl* Asst
 Registrar. Evelyn M Myatt-Price, MA Asst.
 Accountants B T Parkin, FCA, Phyllis M
 Shrimpton Asst Maintenance Officer. J A G
 Deans, MBE

LIBRARY. Dep. Librarian. Marjorie Plant,
 DSc(Econ) Sub-Librarians: Martha E. Daw-
 son, MA (Chief Cataloguer), W L. Guttman,
 MSc(Econ) (Acquisitions Officer), Miss. Maria
 Nowicks, LLM (Supt. of Reading Rooms) Sr.
 Asst. Librarians C G Allen, MA; Una M
 Nottage, BSc(Econ) Asst Librarians B G
 Awty, BA, E C Blake, BA, B. C. Bloomfield,
 MA, Margaret N Blount, BA; B. R. Hunter,
 BA

GENERAL INFORMATION

Founded in 1895 for the study of the soc. scis.,
 initially econ, econ hist and statistics. Recog as
 a sch. of the univ in 1900 for the BSc(Econ) degree

course. In 1904 sociol. was added to the curricu-
 lum, and in 1912 the dept of soc. sci. & admin
 was establd. In 1921 recog as a sch. of the univ.

U.K.—ENGLAND (LONDON)

in the fac of laws, in 1922 in the fac. of arts (geog and sociol), in 1924 for hist and anthropol, and in 1958 for philos and econ

INCOME (1959-60) Total income, £810,060 (govt grants, 71.7 per cent; endowments, 2.7 per cent; fees, 14.1 per cent; donations, 10.7 per cent; misc sources, 0.8 per cent)

LIBRARY The British Library of Pol & Econ Sci. (400,000 vols and over 400,000 pamphlets) is attached to the sch and includes the Edward Fry library of internatl. law, the Schuster library of compar. legislation, and a number of sp. collections. The library is open not only to those who are taking courses at the sch., but, by permission of the librarian, also to other persons desiring to use it for res or consultation.

ADMISSION. See p. 953 and Appendix III. The sch is open on the same terms to men and to women. The sch reserves the right to call any student for personal interview, and may also specify conditions, over and above the requirements of the univ regns, with which a student must comply before admission. Persons seeking admission to the sch for a first degree or dipl course may be required to sit for an entrance exam., which consists of a 3-hr paper, containing questions of a general nature and questions on the use of English.

FIRST DEGREES (of Univ of London) The sch provides courses for degrees of the Univ of London as listed below 3 yrs—BSc(Econ), BSc(Soc), LLB, BA in anthropol, geog, hist, philos. and econ, sociol. Courses are given both in the day and in the evg for BSc(Econ), LLB and higher degrees.

HIGHER DEGREES (of Univ of London). MSc (Econ), MA and PhD in all subs for which first degrees are awarded.

DIPLOMAS Awarded by Univ of London Postgrad. anthropol, pub. admin, each 2 yrs, law, psychol, stats, each 1 yr. Awarded by the sch. Soc admin, 1 yr for grads, 2 yrs for others, soc workers in mental health, personnel admin, appl soc studies, each 1 yr.

CERTIFICATE Awarded by the sch. Internat studies, 2 yrs.

SPECIAL COURSES Bus. admin., econ & soc. admin., trade union studies, each 1 yr.; indust. financing, 6 mos.; operational res., 2 yrs. In collaboration with Imperial Coll the sch. ar-

ranges courses in postgrad studies in technol, econ and admin.

FEES (1961-62) (They will be revised from beginning of session 1962-63). Annual composition fee (incl union membership) for a full-time first degree course in arts, in laws or in econ, £50, for a full-time postgrad course, £50. Evg students receive considerable reduction in fees. The fees incl. privileges of students' common rooms and athletic socs. The playing fields at Malden are available for members of the athletic union.

SCHOLARSHIPS Entrance schols. (incl the Leverhulme schols.) are awarded each yr. and are eligible for supplementation by the Ministry of Educn in respect of schols awarded in 1961 and 1962 but not thereafter. There are also 2 entrance schols, £450 each, for intending specialists in stats and computational methods. Two adult schols may be awarded to students who have shown promise in pt-time studies. Schols are also awarded during the undergrad. course, some of which are eligible for supplementation by the Ministry of Educn.

POSTGRADUATE AWARDS open to grads of other univs: see p. 808.

RESIDENCE. Passfield Hall, Endsleigh Place, WC 1 (tel. (warden & staff) Euston 3584, (students) Euston 7691), for about 140 men, fees, £52. 10s, £50 and £46 in michaelmas and lent terms and £47. 15s, £45. 10s and £42 in summer term for single, double and treble study-bedrooms respectively. Warden J. Shaffer, BSc(Econ) Penn.

STUDENT HEALTH The sch. has its own psychiatric advisor and nurse. The psychiatric advisory service is in the charge of a doctor who may be consulted by students who feel the need for psychiatric treatment. The nurse holds a daily surgery in the sch. during the session. A mass radiography unit visits the sch. each session for the exam of students.

PUBLICATIONS Official. *Calendar* (annual), *Handbook* (annual), *Deptl Pamphlets Learned, New Series*; *Economica*, quarterly journal devoted to res in econ, econ hist and stats; *The British Journal of Sociol*, quarterly journal devoted to res in sociol and cognate subjects. Library. *A London Bibliography of the Social Sciences*, vols 1-11.

THE YEAR 1960

ROYAL VISIT. The sch. was honoured by a visit from the chancellor of the univ, H M Queen Elizabeth the Queen Mother, on February 23, 1960.

RESIGNATIONS Dr D. Lockwood (sociol); Dr J. P. Martin (soc sci.)

DEATHS F. Brown (student of sch, 1919-22, member of teaching staff, 1923-29 and 1931-60); Mrs Honoria R. M. Croome (student of sch, 1927-31, member of teaching staff, 1936-40 and 1947-48, hon. fellow of sch), Sir Heisch Lauterpacht (student of sch, 1923-25, member of teaching staff, 1927-38, hon. fellow of sch).

LONDON SCHOOL OF ECONOMICS & POLITICAL SCIENCE 1005

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1703	430
Women	476	66
Total	2179	496

Distribution by Faculties
studies, 2552 Total. 2675.

Included in the figures above are —

Postgraduate students, 797
New admissions, 1203

Students from other countries, 989 (Countries from which largest numbers came. U.S.A., 168, India, 139, Nigeria, 79, Canada, 69)

DEGREES AWARDED (by Univ. of London)
(1959-60) Arts BA, 61, MA, 3. Econ. BSc(Econ), 262, BSc(Soc), 19; MSc(Econ), 31, DSc(Econ), 1. Law LLB, 39; LLM, 6 PhD (all facs) 45. Total number of first degrees awarded, 381

DIPLOMAS AWARDED (by Univ. of London)
(1959-60) Anthropol., 1; law, 3

CERTIFICATES AWARDED (1959-60) Appl. soc studies, 35, internat studies, 8; mental health, 28, personnel admin., 22, soc. sci. & admin., 62.

[Information compiled as at 18/8/61]

QUEEN ELIZABETH COLLEGE

Founded 1908

Postal Address: 61-67 Camden Hill Road, London, W.8, England

Telephone and Telegrams: Western 3704

CHAIRMAN OF COUNCIL—SIR GEORGE ALLEN, CBE, MD *Belf*, Hon LLD *Malaya*

PRINCIPAL—M JOAN SARGEAUNT, MA BLitt *Oxon*

SECRETARY—DIANA M. H. GRILLS, BA

TEACHING STAFF

[†=Part-Time]

Bacteriology

Pirt, S J, PhD *Bum*
Scholes, Patricia M, PhD

Reader	Prall, P F G, PhD, FRIC	Lectr
Lectr	Cheeseman, G W H, PhD, FRIC	Lectr.
	Smith, F Geraldine, BSc <i>St And</i> , PhD	Lectr.
	Pollei, R C, PhD <i>S'ton</i>	Asst Lectr
	Bird, C W, PhD	Asst Lectr
	Satchell, Mrs R S, BSc	Asst Lectr

Biology

Chapman, G, MA *Camb*, PhD (Zool) Prof
Gardiner, Phyllis, BSc Sr Lectr
Rawson, Mrs Dilys O, MSc *Wales* Lectr
Vaughan, J G, MSc PhD Lectr
Rigby, Joyce E, PhD *R'dg*. Lectr.
Rogers, Stella, PhD Lectr
Gardiner, B G, PhD Asst. Lectr
Black, M, PhD *Manc* Asst Lectr
Brafeld, A E, BSc *Wales* Asst Lectr
Heale, J. B., BSc *Exe* Asst Lectr

Household Science

Walley, Joan E., BSc Sr. Lectr.
Urquhart, Mrs Gwenth M., PhD Sr. Lectr.
Begrie, Irene C. Lectr
Gardiner, Mrs Margaret, MSc Lectr
Mitchell, Mrs Patricia I, BSc Lectr.
Walmsley, Mrs. Ruth E, BSc Asst Lectr.
West, Mrs Jean L., BSc †Asst Lectr.
Mainwaring, Megan E A., BSc Asst Lectr.

Chemistry

Burton, H., DSc, FRIC Prof.
Hargreaves, M K., MA *Camb.*, DSc, FRIC Lectr

Mathematics

Bonnor, W. B., DSc Reader
Perry, R. L., PhD Lectr.

U.K.—ENGLAND (LONDON)

Papert, Mrs Dona, PhD *Camb.*,
MSc *Cape T.*

Asst. Lectr.

Sprackling, M. T., PhD *Brist*
Harper, Mrs Gladys I, PhD

Asst Lectr
†Asst Lectr

Nutrition

Yudkin, J., MD PhD *Camb*, MRCP,
FRIC

Prof

Copping, Alice M., MSc *N Z*

Sr Lectr

Morgan, T. B., MSc *Wales*, PhD

Lectr

Brown, Ann, MSc *Conn*, BSc

Asst Lectr

Physiology

Knox, J. A. C., MD *Glas*

Prof

Whaler, B. C., PhD *Sheff*

Lectr

Cheesman, Mrs Elizabeth M., BSc

Lectr

Prebble, Mrs Patricia M., BSc

Lectr

Morrissey, Shelagh M., BSc

Lectr.

Heath, R., BSc *Bnm*

Asst. Lectr

De Boise, Barbara L., BSc *St. And*

Asst Lectr

Jackson, Gwendolyn M., BSc *St And.*

Asst Lectr

Physics

Dillon, Teresa J., MSc, FIP

Sr. Lectr.

McNally, M., PhD *Edin.*

Lectr

Parsons, J. J., MSc

Lectr

Browne, M. T., PhD

Lectr.

Hall, Daphne J., MSc

Asst. Lectr

Social Studies

Heasman, Mrs Kathleen J., PhD

†Lectr.

Zoology, see Biol.

ADMINISTRATIVE AND OTHER STAFF

Bursar Ida T Robinson Librarian · Mrs Margaret Atkins, BA *N U I*
Accountant · J. A. Garlick Asst Secretary: Mary A Heath, MA *Oxon*

GENERAL INFORMATION

Formerly a dept of King's Coll for Women, since 1928 an indep sch. of the univ. in the fac of sci. Name changed from King's Coll of Household and Soc Sci to Queen Elizabeth Coll when royal charter granted in Jan. 1953 Open to men and women students

INCOME (1959-60) £169,019 (govt grant, 89 per cent., fees, 8 per cent., endowments, 2 per cent., misc receipts, 1 per cent.)

LIBRARY 14,300 vols, not incl periodicals

LABORATORIES offer facilities for res work

ADMISSION See p 953 and Appendix III.

FIRST DEGREES (of Univ of London) The coll. provides 3-yr degree courses for BSc (Household Sci), BSc(Nutrition), BSc (gen.) and BSc (spec) (microbiol) of the Univ. of London

DIPLOMAS. Awarded by Univ of London

univ academic postgrad. dipl. in dietetics, 15 mos., academic postgrad dipl in nutrition, 1 yr., sister tutor's dipl, 2 yrs

CERTIFICATE. Awarded by the coll coll. cert. in institutional management, 2 yrs

FEES Tuition (incl union membership) £76 10s p a

ENTRANCE SCHOLARSHIPS One of £80 p a and 3 of £40 p.a. for 3 yrs

POSTGRADUATE SCHOLARSHIPS Two of £350-£400 p a for 2 yrs See also p 808

RESIDENCE Queen Mary Hall (150 students)

GRADUATES' ASSOCIATION There is an old students' assocn

PUBLICATIONS. *Prospectus*, *Annual Report and Calendar*; *Students' Magazine*.

THE YEAR 1960

PRINCIPAL BENEFACTIONS London Res Foundation, £56,000 over 7 yrs for work on fertility control

BUILDING DEVELOPMENT Bldg completed Sir John Atkins labs for biol, microbiol and nutrition.

RESIGNATIONS Mrs Paulette Antonis (physiol)

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	68	2
Women	206	—
Total	274	2

All students are in fac of sci

QUEEN ELIZABETH COLLEGE

1007

Included in the figures above are —

Postgraduate students, 12

New admissions, 130

Students from other countries, 15

DEGREES AWARDED (by Univ of London)

(1959-60) BSc(HS), 10, BSc(Nutr), 12, BSc
(gen.), 19.

DIPLOMAS AWARDED (by Univ. of London)
(1959-60). Dictetia, 3, sister tutor's, 10.

CERTIFICATES AWARDED (1959-60) Institu-
tional management, 20

[Information compiled as at 18/8/61]

QUEEN MARY COLLEGE

Founded 1915, previously established as East London College and originally
founded as People's Palace Technical Schools, 1887

Postal Address: Mile End Road, London, E.1, England

Telephone: Advance 4811

PATRON—H M. THE QUEEN

CHAIRMAN OF THE GOVERNORS—SIR ALBERT STERN, KBE, CMG, MA

PRINCIPAL—SIR THOMAS P. CREED, KBE, MC, QC, MA Oxon

REGISTRAR AND SECRETARY—R P TONG, OBE, JP, MA Camb

LIBRARIAN—A WHITWORTH, MA Leeds

TEACHING STAFF

Botany

Whittingham, C P., BA PhD Camb
Godward, Maud B E., MSc PhD
Newby, H. V., BSc(Agric) BSc
Wanstall, P. J., BSc
Walker, D A., BSc PhD Durh
Bradbeer, C., BSc PhD Durh
Jones, B. M. G., BA Camb.
Frankland, B., BSc Manc

Prof.
Reader
Sr. Lectr.
Lectr.
Lectr.
Lectr.
Asst Lectr.
Asst Lectr

Classics

Laidlaw, W. A., MA LittD Dub.
Balme, D M., CMG, DSO, DFC,
MA Camb.
Denny, G. A. W., TD, MA Camb.
Sealey, B. R. I., MA Oxon.
Currie, H MacL., MA Glas
Black, D W., BA Durh

Prof.

Reader
Lectr.
Lectr.
Lectr.
Asst. Lectr.

Chemistry

Sykes, K. W., MA BSc DPhil Oxon
Hickinbottom, W J., PhD DSc Birm.,
FRIC
Weedon, B. C. L., DSc PhD, FRIC
Stone, F G A., MA PhD Camb

Prof
Prof
Prof

(from July 1962) Reader
French, Cecilie M., DSc PhD, FRIC Sr Lectr
Garwood, R F., BSc PhD Lectr.
Grove, Dorothea M., MA BSc Oxon, PhD Lectr.
Ansell, M F., DSc PhD Lectr.
Hart, F A., MA PhD Lectr.
Pritchard, J., BSc PhD Lectr.
Urch, D. S., BSc PhD Lectr.
Randall, E. W., BA DPhil Oxon Lectr.
Bonnert, R., BSc PhD Camb, ARCS Lectr.

Engineering, Aeronautical

Young, A. D., MA Camb, FRAeS
Whitehead, L. G., BSc(Eng) PhD
McQuillan, L. A., MA Oxon.
Hancock, G. J., BSc PhD Sheff.
Milne, R. D., BSc(Eng) Aberd
Bernstein, L., BSc(Eng) PhD

Prof.
Reader
Lectr.
Lectr.
Lectr.
Lectr

Engineering, Civil

King, J W H., MSc Manc, MICE Prof.
Daniel, A W T., MA Camb, PhD Lond.

Gadd, D., MSc(Eng) Sr. Lectr.
Allen, J., MSc PhD Manc. Lectr.
Burley, E., BSc(Eng) Asst Lectr

U.K.—ENGLAND (LONDON)

Engineering, Electrical

Humphrey Davies, M W, BSc(Eng) <i>Wales</i> ,	
MSc <i>M I T</i> , MIEE	Prof
Murgatroyd, W, MA PhD <i>Camb</i>	
(Nuclear E) Prof	
Stoner, C R, BSc(Eng), MIEE	Reader
Tropper, H, <i>Diplng Vienna</i> , PhD	Reader
Lewis, T J, BSc(Eng) MSc PhD	Reader
Saxe, R F, BSc PhD <i>Liv</i> (Nuclear E)	Reader
Mansfield, W K., BSc (Nuclear E)	Lectr.
Thunwood, R F, BSc(Eng) PhD	Lectr.
Ellison, A J, BSc(Eng)	Lectr.
Redwood, M, BSc PhD	Lectr.
Seeley, J S, BSc(Eng) PhD	Lectr.
Macfarlane, A G J, BSc <i>Glas</i>	Lectr.
Kemeny, L G., BE <i>Syd.</i> (Nuclear E)	Lectr.
Salvage, B F, BSc(Eng) PhD	Lectr.
Secker, P E, BSc(Eng) PhD	Lectr.
3 Res. Fellows	

Engineering, Mechanical

Giffen, E, MSc <i>Belf</i> , DSc(Eng) PhD,	
MIMechE	Prof
Le Fevre, E J, BSc(Eng), MIMechE	Reader
Webb, C R, BSc(Eng) PhD	Reader
Collacott, R A, BSc(Eng) PhD	Lectr.
Earles, S W E, BSc(Eng) PhD	Lectr.
Kotas, T J, MSc(Eng)	Lectr.
Chesewright, R, BEng <i>Liv</i> .	Lectr.
Ellison, E G., BSc(Eng) PhD	Lectr.
Brazier, M E., BSc(Eng)	Lectr.
Davies, W R, BSc(Eng)	Lectr.
Langer, G., MSc <i>Rand</i>	Lectr.
Rose, J W, BSc(Eng)	Asst Lectr

English Language and Literature

Isaacs, J, MA <i>Oxon</i> .	Prof
Callan, N R., MA <i>Camb</i> .	Reader
Thompson, Mrs. Mayjone, MA	Lectr
Thomson, Patricia, MA <i>Oxon</i> .	Lectr.
Hussey, S S, MA	Lectr
Gross, J. J., MA	Asst Lectr.
Mills, A D., MA	Asst Lectr

French Language and Literature

Collas, J P., BA BLitt <i>Oxon</i> .	Prof
Taylor, O. R., MA <i>Wales</i>	Reader
Evans, H G J, BA PhD	Reader
Dérôme, R, MA <i>Georgia</i> , L&L <i>Paris</i>	Lectr.
Decreus, Mrs Juliette C., MA DU <i>Paris</i>	Lectr
Evans, D. H., MA <i>Wales</i> , DU <i>Paris</i>	Lectr.
Holmes, Peggy P, BA PhD	Lectr
Gore, K. O., MA <i>Wales</i>	Asst Lectr.

Geography

Smailes, A. E., MA	Prof
Rawstron, E. M., MA	Reader
Mutton, Alice F A, MA PhD	Sr Lectr.
Everard, C E, MSc	Lectr.
Sheppard, June A., MA PhD	Lectr
Harris, D R, MA BLitt <i>Oxon</i> .	Lectr
Wetherick, M. E., BA <i>Burm</i>	Asst Lectr

Geology

Kirkaldy, J F, DSc	Reader
Middlemiss, F. A., BSc PhD	Lectr
Greensmith, J T., BSc PhD <i>Sheff</i>	Lectr.
Bishop, A C, BSc PhD	Lectr.
Tucker, E V, BSc PhD <i>Wales</i>	Asst Lectr.
French, W J, BSc <i>Nott</i> , PhD	Asst Lectr

German Language and Literature

Hatto, A. T., MA	Prof
Bock, C V, MA <i>Manc</i> , DrPhil <i>Basle</i>	Reader
Cambridge, Rosemary N, MA <i>Oxon</i> ,	
DrPhil <i>Mun</i>	Lectr
Alexander, Mrs Mary, MA <i>Oxon</i>	Asst. Lectr

History

Bindoff, S T., MA	Prof
Chew, Helena M, MA PhD	Reader
Leslie, R F, BA PhD	Lectr.
Clementi, Dione R, MA DPhil <i>Oxon</i> .	Lectr
Scansbrck, J. J., MA PhD <i>Camb</i> .	Lectr
McDonnell, K G T, BSc(Econ) PhD	Lectr.
Williams, G., BA PhD	Asst Lectr.

Mathematics, Pure and Applied

Ferraro, V C A, DIC, BSc PhD	Prof.
Hirsch, K A, DPhil <i>Berl</i> , PhD <i>Camb</i>	Prof.
Percival, I. C, BSc PhD	Reader
Gruenberg, K W, BA PhD <i>Camb</i> .	
(on leave) Reader	
Green, S L., MSc	Sr. Lectr
Allen, H. S., PhD MSc	Sr Lectr.
Chirgwin, B. H., MA <i>Oxon</i> , BSc PhD	Sr Lectr
Tropper, Mrs A. Mary, MSc PhD	Lectr
Plumpton, C, MA <i>Camb</i> , PhD	Lectr
Gliddon, J E C, MSc	Lectr
Weir, A. J, BA PhD <i>Camb</i>	Lectr
Higgins, P. J., BA PhD <i>Camb</i>	Lectr
Simons, S., BA PhD <i>Camb</i>	Lectr.
Farquhar, I E, BSc PhD <i>Aberd</i>	Lectr
Leamer, A, MA <i>Melb</i>	Asst Lectr
Rotenberg, M A, MSc	Asst Lectr

Physics

Jones, G. O., MA BSc <i>Oxon</i> , PhD <i>Sheff</i>	Prof.
Eisenschitz, R K, DPhil <i>Munch</i> , DSc,	
FIP	Prof
Powles, J G, MSc PhD <i>Manc</i> ,	
D&Sc <i>Paris</i> , FIP	Reader
Ashmore, A., PhD <i>Liv</i> , BSc, FIP	Reader
Davies, R O, DPhil <i>Oxon</i> , MSc N Z	Reader
Irons, E J., PhD DSc, FIP	Sr Lectr
Loech, J W, BSc PhD, FIP	Sr Lectr
Heastie, R, BSc PhD	Lectr
Burfoot, J C., MA PhD <i>Camb</i>	Lectr.
Neale, F E., BSc PhD <i>Nott</i>	Lectr.
Sandor, E, DipPhys&Maths <i>Bud</i> .	Lectr.
Hird, B, MA DPhil <i>Oxon</i>	Lectr
Doniach, S, BA <i>Camb</i> , PhD <i>Liv</i>	Lectr.
Bastin, J. A, MA <i>Oxon</i> , PhD	Asst Lectr
Newman, D J, BSc PhD	Asst. Lectr
Mandel, G., BA <i>Oxon</i>	Asst Lectr
1 Res. Fellow	

Spanish Language and Literature

Jones, R O, MA Reader
Harvey, L P, MA DPhil *Oxon* Lectr.
Franco, Mrs Jean, MA *Mane*, BA Lectr
Ingamells, Lynn E, BA Asst. Lectr

Zoology

Smith, J E, MA ScD *Camb*, BSc PhD, FRS Prof

Newell, G E, TD, DSc PhD Prof.
Forrest, J E, BSc *Edin*, PhD Sr. Lectr.
Carthy, J D, MA PhD *Camb* Lectr
Freeman, R F H, BSc MA *Camb*. Lectr.
Simkiss, K, BSc PhD *Rdg* Asst. Lectr.
Heald, Mrs Lealey J., BA *Camb*, PhD *Liv*. Asst. Lectr.

Munro Fox, Prof. H., MA *Camb*, FRS Hon. Res. Assoc.

ADMINISTRATIVE AND OTHER STAFF

Warden of Men's Hostel · B. H. Chirgwin, MA
Oxon, BSc PhD. Warden of Women's Hostel

Dorothea M Grove, MA BSc *Oxon*, PhD. Tutor
to Women Students' Peggy P. Holmes, BA PhD.

GENERAL INFORMATION

Queen Mary Coll derives from the New Philosophical Institute founded in the earlier part of the 19th cent. by J T Barber Beaumont to provide educn for people of the East End. He died in 1841, providing in his will a trust fund for continuation of the inst. The trustees later became associated with the Drapers' Co, with whose assistance the People's Palace Technical Schs were opened in 1887, superseding the New Philosophical Inst and later known as East London Technical Coll. With addn of arts courses, the name was changed to East London Coll. In 1907 univ recognition was granted for instructn for bachelor's and higher degrees in arts, sci and engin and in 1915 the coll was admitted as a sch of the univ. A royal charter was granted in 1934 when the coll's name was altered to Queen Mary Coll in acknowledgment of the honour accorded by Queen Mary in presenting the charter. Queen Mary became the first patron and hon fellow of the coll.

Governed by governors who incl. master and clerk of Drapers' Co and reps of L.C.C., univ. and staff. A sch. of the univ in arts, sci and engin.

FACULTIES AND DEANS Arts, Prof A E Smailes (geog), engin., Prof A D Young (aero engin), sci, Prof G O Jones (phys).

TUTORS TO GENERAL STUDENTS Arts, C E Everard (geog), sci, Dr M F Ansell (chem)

COLLEGE PRECINCT With the exception of biol establs listed under 'Labs' all the coll bldgs are contained in 3 continuous sites fronting on Mile End Rd. Devel continues on each of these 3 sites. The gymnasium is a quarter of a mile distant.

LIBRARY About 75,000 vols

LABORATORIES for res. in phys., chem, elect engrin, nuclear engin., Whitstable lab for study of marine biol, bot field stn at Ditchleys.

ADMISSION See p 953 and Appendix III

FIRST DEGREES (of Univ of London) The coll provides courses for degrees of the Univ. of

London as listed below. BA (3 yrs.) · hons. in classics, Latin, Engl, French, geog., German, hist, maths, Spanish BSc (3 yrs.), special degree in bot, chem, geog, geol, maths, phys, zool., and (3 subs) general. BSc(Eng) (3 yrs) aeronaut, civil, elect, mech

HIGHER DEGREES (of Univ of London). MA, MSc, MSc(Eng) and PhD may be taken in all subs listed in preceding paragraph, period of study generally not less than 2 yrs. Except in maths, when a master's degree may be obtained by means of a course of instructn., all higher degrees involve res under supervision.

DIPLOMA Awarded by the coll · 1 yr dipl in nuclear engin., 1 yr course for hons grads in engin, sci or maths or students with equivalent qualifs

FEES Undergrad (incl union membership): arts, £50 p.a., sci, engin., med., each £65 p.a. Postgrad (incl union membership) · arts, £35 p.a., geog (arts or sci), £50 p.a.; sci, engin., each £65 p.a. Dipl. in nuclear engin., £90

ACADEMIC YEAR Oct to July: 3 terms of 10 weeks each

ENTRANCE SCHOLARSHIPS AND EXHIBITIONS. These incl. 6 scholps. (4 for men, 2 for women), value £75 p.a., and 4 exhibitions, value £40 p.a., all for 3 yrs., awarded by the Drapers' Co. in Feb. of each yr. on the result of the inter-collegiate scholarships exam. The governors award 10 coll exhibitions, value £40 p.a. for 3 yrs., on the result of the same exam. In addn., coll. bursaries value £40 p.a. may be awarded from time to time to students entering their 2nd or later yrs. All these awards are cblig for supplementation by the Ministry of Educn

POSTGRADUATE AWARDS open to grads of other univs · see p 808.

RESIDENCE, ETC. For men (fees for residence and partial bd · from £105 p.a.): Elmhurst, 89 High Rd, S Woodford, London, E.18 (tel.: Buckhurst 1541), accomm. 32 students. For women (fees for residence and partial bd.: £105 p.a.): Elmhurst, 89 High Rd, S Woodford, London, E.18 (tel.: Buckhurst 1541), accomm. 32 students.

(£120 p.a.): Lynden Hall, 91 High Rd., S Woodford, London, E 18 (tel Buckhurst 1546), accomm 39 students.

STAFF RESIDENCE. The house standing in the coll sports grounds at Ditchleys provides 5 flats for academic staff

GRADUATES' ASSOCIATIONS The old students' assocn was founded in 1909 to provide past students with opportunities for meeting each other and for maintaining their interest in the coll

STUDENT HEALTH SERVICE A med officer

visits the coll. weekly during the first 2 terms of the session. All students attend mass X-ray during the first term of the session

STUDENTS' UNION The union soc officially represents the student body. It has in affiliation a large number of clubs and socs which cater for the intellectual, soc and athletic needs of students. There is a sports ground at Ditchleys, Coxite Green, near Brentwood

PUBLICATIONS *Prospectus*, *Calendar*, 5s., *Annual Report*, student publns.. *The Leopardess*, 1s.; *The Cub*, 4d

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS *Bldgs completed* and section of new engin. bldg. and extended nuclear engin. lab came into use, 1st section of new phys bldg. came into use *Bldg acquired*: Welsh Calvinistic Methodist Chapel, Mile End Rd., for conversion into gym

NEW DEPARTMENTS AND CHAIRS Chair of org chem. Personal chair org chem (W J Hickinbottom)

RESIGNATIONS Lt-Col C Copple (mech engin.), Dr J S Cummins (Spanish), apptd lectr, King's Coll, Lond, Dr E R Dobbs (phys), apptd to Cavendish Lab, Camb, Dr E A C. Lucken (chem), to become group manager in a Geneva res. inst.; Dr D. H. Martin (phys), apptd to res fellowship, Q M C, Dr J. E Morton (zool.), apptd to chair of zool at Univ of Auckland, B B Overy (mech. engin.), apptd principal lectr., Lanchester Coll of Technol., Coventry, Dr E H Sondheimer (maths), apptd to chair of maths, Westfield Coll, Lond

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men .	976	42
Women .	324	21
Total .	1300	63

Distribution by Faculties *Arts*, 427, *engin.*, 326; *med*, 44, *sci.*, 566 Total. 1363

Included in the figures above are —

Postgraduate students, 191
New admissions, 472 (full-time)
Students from other countries, 90 (Countries from which largest numbers came USA, 19; India, 8, Germany, 7)

DEGREES AWARDED (by Univ of London) (1959-60) *Arts* BA, 12; BA (hons), 93, MA, 2 *Engm.* BSc(Eng), 87, MSc(Eng), 2 *Sci* BSc, 12; BSc (hons), 111, MSc, 1 PhD (all facs) 36 *Total number of first degrees awarded*, 315

DIPLOMAS AWARDED (by the college) (1959-60)
Nuclear engin., 6

[Information compiled as at 11/8/61]

ROYAL HOLLOWAY COLLEGE*

Founded 1886

Postal Address: Englefield Green, Surrey, England

Cables and Telegrams Royal Holloway College, Englefield Green

Telephone Egham 3751

CHAIRMAN OF THE COUNCIL—Sir JOHN CAMERON, Bt., MA LLB Camb

PRINCIPAL—(until Sept 30, 1962) EDITH C. BATHO, MA DLit

—(from Oct 1, 1962) E MARJORIE WILLIAMSON, MSc PhD

SECRETARY—DOROTHY HUSTLER, MBE

REGISTRAR—JOSEPHINE FULLER

LIBRARIAN—FLORENCE R. ELLISON, BA Br Col., FLA

TEACHING STAFF

Botany		Green, Hilda A. C., MA		Sr. Lectr.
Jane, F. W., PhD DSc	Prof	Morgan, Margery M., MA		Lectr.
Madge, Margaret A. P., BSc PhD		Hyde, Isabel, MA MLitt Camb		Lectr.
Sr Lectr., Asst Dir, Bot. Lab.		Ball, Patricia M., MA Leeds, PhD Nott		Lectr.
Paxton, R. G., MSc Durh	(on leave) Lectr	French		
Evans, J. H., BSc PhD	Lectr	Hunt, H. J., MA DPhil Oxon		Prof
Kerr, Janet E., BSc PhD	Temp Lectr	West, Constance B., MLitt Camb, PhD		
Lodge, E., PhD	Asst Lectr., Demr	Brereton, Georgine E., BA BLitt Oxon		St. Lectr
Cooke, R. C., BSc Birm	Asst Lectr., Demr	Goujard, Renée M.		Lectr
Valadon, L. R. G., BSc S'ion	Asst Lectr., Demr	Hastings, Mrs Andrée M., BA Leeds		Lectr.
Topping, Mrs. M. Phyllis, BSc PhD	(Biol.) Hon Res. Asst	2 Assistantes		
1 Botanical Gardener		German		
Chemistry		Tymms, R. V., MA Oxon.		Prof.
Bourne, E. J., PhD DSc Birm., FRIC	Prof	Jenkins, S. Patricia, MA		Sr Lectr.
Foster, A. G., BA BSc Oxon., PhD	Reader	Salmon, P. B., MA PhD		Lectr
Bonner, T. G., PhD DSc, FRIC	Reader	1 Assistantin		
Singer, K. G., PhD Glas., BSc	Lectr.	History		
Weigel, H., DiplChem DrRerNat		Hussey, Joan M., MA Oxon & Camb,		
T H Aachen	Lectr.	BLitt Oxon., PhD, FSA		Prof
Peters, D., BSc PhD	Lectr	Latham, R. C., MA Camb	(on leave)	Reader
Pridham, J. B., BSc PhD Bist	Lectr.	Tomkinson, A., MA Oxon.		Lectr.
Finch, A., DIC, PhD	Lectr	Cunningham, A. B., BA Durh., MA PhD		Lectr.
Lewis, D., BSc PhD Hull	Asst Lectr., Demr	Stoye, Enid D., MA Oxon., PhD Frib.		Lectr.
5 Res Fellows		Harvey, Margaret M., BA Oxon.		Asst. Lectr.
Classics		Mathematics		
Tredennick, H., MA Camb	Prof	McCrea, W. H., ScD Camb., Hon.		
Miller, Norma P., MA Glas & Camb	Lectr.	DSc N.U.I., FRS		Prof.
Wilford, F. A., MLitt Camb, MA	Lectr	Halberstam, H., MSc PhD		Reader
Usher, S., MA Wales, PhD	Asst Lectr	Bradburn, Mary, PhD Edin., MSc		Sr. Lectr.
English		Yates, Barbara G., BA Dub, PhD Aberd.		Lectr.
Kane, G. J., BA Br.Col., MA Tor, PhD	Prof	Reed, J. W., BSc Syd., MSc		Lectr.
Tompkins, Joyce M. S., MA DLit	Reader			

* For women (Men are admitted for postgraduate work).

U.K.—ENGLAND (LONDON)

McDowell, M. R. C., BSc PhD *Belf.*,
MA *Col*
Laxton, R. R., BSc

Lectr.
Asst Lectr
Asst Lectr

Miller, R. F., BSc
Allen, L., BSc PhD
2 Res Fellows

Asst Lectr, Demr
Asst Lectr, Demr

Music

Scourse, Joan C., BMus
Legge, B. Pompila, MA *Oxon*

Dir
Asst Dir

Physics

Tolansky, S., PhD *Durh & Lond.*,
DSc *Mane*, FRS
Heavens, O. S., BSc PhD
Hutten, E. H., PhD *Berl.*
Smith, C. J., MSc PhD
Sr. Lectr., Asst. Dir., Phys. Lab
Edmondson, A. S., MSc

Prof
Reader
Reader
Lectr.

Zoology

Butler, P. M., MA PhD *Canb.*, BSc
Thomas, Joan G., BSc PhD
Duncan, Annie, PhD *Liv*, BSc (on leave) Lectr.
Binyon, E. J., BSc PhD
Brown, J. C., BSc PhD *Brist*
Twigg, G. I., BSc PhD *Sheff*
Stringer, Mrs. Nancy J., PhD *Exe*, BSc
2 Res Fellows

Reader
Lectr.
Lectr.
Asst Lectr, Demr
Asst Lectr, Demr
Asst Lectr, Demr
Asst Lectr, Demr
Asst Lectr, Demr

ADMINISTRATIVE AND OTHER STAFF

Residence Officer: E. Mary Bone, BA *Oxon*.
Principal's Private Sec: Annie A. Divine, BA
Sr Asst to the Sec: M. Betty de M. Beaumont,
BSc *Edm* Asst Registrar: Cynthia G. Sutton,

BA Domestic Bursar: Constance C. Strachan
Nurses: Marjorie G. Moss, Mrs. Gerorgette
Barlow

GENERAL INFORMATION

Opened in 1886. A sch. of the univ. in the facs. of arts and sci. Became a corporate body, July 1949

LIBRARY Approx 58,000 vols

LABORATORIES. Bot, chem, phys., zool Bot gdn

ADMISSION There is a scholp exam, on the results of which scholps, exhibitions and places may be awarded. Candidates applying for entrance only are in some subjects, but not all, required to take a written exam. All candidates must attend for interview. See also p 953 and Appendix III

FIRST DEGREES (of Univ. of London). The coll. provides courses for degrees of the Univ of London as listed below: 3 yrs—BA (hons and gen.) in classics, Greek (with Latin), Latin (with Greek), Engl., French, German, hist., maths.; BA (gen.) music; BSc (spec. and gen.) with, as main subj., bot, chem., maths., phys. or zool

HIGHER DEGREES (of Univ of London) MA and PhD in classics, Engl., French, German, hist., maths., MSc and PhD in bot., chem., maths., phys., zool

FEES Tuition undergrad. arts, £45 p.a., maths (arts or sci.), £50 p.a., sci., £60 p.a. Postgrad: arts, £21 p.a.; maths (arts or sci.),

£21 p.a., sci., £30 p.a. Residence, £180 p.a., use of amenities for non-resident students, £9 p.a. Theoric fee, covering union membership (compulsory), £2 2s. p.a. (resident undergrad.), £1 1s p.a. (non-resident undergrad & resident postgrad.), 7s p.a. (non-resident postgrad.). Sp. subjs (music, elocution, etc), 10s 6d—£5 5s. a term. Registration, £2.

ENTRANCE SCHOLARSHIPS Four £60 scholps and eight £40 scholps. may be awarded each yr. Awarded on basis of scholp exam; eligible for supplementation by Ministry of Educn, tenable for 3 yrs subject to satisfactory progress

POSTGRADUATE AWARDS open to grads. of other univs. see p 808

RESIDENCE Residential accomm for approx 340 students

STUDENT HEALTH SERVICE. Students are registered with the coll. doctor

FACILITIES FOR ATHLETICS There are facilities for athletics, cricket, hockey, lacrosse, netball, squash, tennis, gymnastics and swimming. Area of grounds, 95 acres

PUBLICATIONS *Calendar* (Oct); *Prospectus* (July); *Coll Letter* (old students' assocn) (Dec); *The Royal Holloway Coll, 1887-1937* (Old Students' Assocn, 1937, o/p)

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	16	7
Women	355	14
Total	371	21

Distribution by Faculties *Arts*, 180, *Sci*, 212.
Total 392

Included in the figures above are —

Postgraduate students, 56
New admissions, 132
Students from other countries, 22 (Country
from which largest number came U.S.A., 5).

DEGREES AWARDED (by Univ of London)
(1959-60) *Arts*, BA, 1, BA (hons), 51; MA,
1 *Sci* BSc, 5, BSc (hons), 41, MSc, 1
PhD (all facs) 10. Total number of first degrees
awarded, 98

[Information compiled as at 17/8/61]

ROYAL VETERINARY COLLEGE

Founded 1791

Postal Address · Royal College Street, Camden Town, London, N.W.1, England*Cables and Telegrams* Veterosis, London, N W 1*Telephone* Euston 5321CHAIRMAN OF THE COUNCIL—Professor Sir CHARLES LOVATT EVANS, Hon LLD *Burm & Lond.*, DSc, FRCP, FRSPRINCIPAL AND DEAN—R. E. GLOVER, MA *Camb*, DSc, FRCVS

VICE-PRINCIPAL—Professor J McCUNN, FRCS

BURSAR AND SECRETARY—H. W. J. ADAMS, MA *Oxon*, FCIS

TEACHING STAFF

Anatomy, Veterinary

McCunn, J, FRCS	Prof
Dyce, K. M., BSc(VetSci) DVMS <i>Edin</i>	Lectr
Merlen, R. H. A	Lectr
Drury, F. S.	Lectr

Biochemistry, Veterinary

Holton, F. A., MA PhD <i>Camb.</i>	Reader
Maichant, R. H., BSc PhD	Lectr
Mayes, P. A., BSc PhD	Lectr.

Animal Husbandry and Veterinary

Hygiene

Laing, J. A., BSc <i>Edin</i> , PhD <i>Camb</i>	Courtauld Prof
Hartop, A. E.	Sr Lectr
Offord, E. C	Lectr
Green, D. A	Lectr
Williams, H. Ll., BSc(Agric) <i>Wales</i> , MSc	Lectr
	Lectr

Biology

Jackson, J. H., MA BSc <i>Aberd.</i>	College Reader
Nisbet, R. H., BSc PhD	Lectr.
Bowes, B. G., BSc	Asst. Lectr
Owen, I. L., BSc PhD <i>Wales</i>	Asst Lectr

Chemistry and Physics

Clarke, E. G. C., MA <i>Oxon</i> , PhD <i>Rdg</i> , FRIC	Reader
Hawkins, A. E., BSc PhD, FIP	Lectr.
Shack, R., MSc	Asst. Lectr
Baxter, Mrs Margaret I., BSc <i>S'ton</i> .	Asst Lectr.
Sowter, Sheila A., BA <i>Camb.</i>	Asst. Lectr.

Bacteriology, Veterinary

Lovell, R., DSc DVSM <i>Manc</i> , PhD	Prof.
Smith, J. E., BSc(VetSci) PhD	Lectr.
Hughes, Betty A., BSc <i>Burm</i>	Asst Lectr

U.K.—ENGLAND (LONDON)

Histology and Embryology

Creed, R F S, MA *Oxon* (on leave) Lectr
 Scott, M G A D, MSc Lectr
 Hodson, Mrs Norma P, MA *Camb*,
 BVSc *Syd*, MVSc *Tor* Asst Lectr

Medicine, Veterinary

Burrow, H, DVSM Prof
 Reader
 Greatorex, J. C., PhD *R'dg*, FRCVS Sr Lectr
 Si Lectr
 Price, E K Lectr
 Statton, J. Lectr
 Thomsett, L R Lectr
 Richards, M A Lectr
 Rohrbach, J A, BVetMed Asst Lectr

Parasitology, Veterinary

Oldham, J N, BSc PhD *Edm*. Reader
 Beesford-Jones, W P, MA *Camb*. Lectr

Pathology, Chemical

Harvey, D G, MBE, BSc PhD, FRIC Reader
 Wilkinson, J S, BSc(VetSci) PhD Lectr

Pathology, Veterinary

Cotchin, E, DSc Prof
 Ingram, P L, BSc(VetSci) Reader
 Lectr
 Hayward, A H S Lectr
 Appleby, E. C., PhD *Edm*, BSc(VetSci) Lectr

O'Shea, J. D., BVetMed Asst Lectr
 Lectr

Pharmacology

Schofield, Brenda M, BSc PhD *St.And* Lectr
 Keen, P. M., BVSc *Brist* Lectr.

Physics, see Chem**Physiology, Veterinary**

Amoroso, E. C., BSc PhD MB BCh
 BAO N U I, FRCS, FRs Prof
 Bell, F. R., BSc *Durh*, PhD, FRCVS Reader
 Bishop, M W H, MA PhD
 DipAgricSci *Camb* Lectr
 Lawn, A. M., BSc Lectr
 Finn, C. A., BSc Lectr
 Shorthose, W. R., BSc *Nott* Asst. Lectr

Surgery, Veterinary

Formston, C., FRCVS Prof.
 Arthur, G. H., DVSc *Law*, FRCVS Reader
 Knight, G C, FRCVS Reader
 Vaughan, L C, FRCVS Lectr
 Cook, W R Lectr
 Churchill Frost, R Lectr
 Tavernor, W D, BVSc *Liv* Lectr
 James-Ashburner, P. W., BVSc *Brist*.
 Asst Lectr.
 Stock, J. E, BVetMed Asst. Lectr.
 Hoad, M J, BVetMed Asst. Lectr

ADMINISTRATIVE AND OTHER STAFF

Asst. Secretary. D. W Gordon-Brown, BA
Wales. Asst. Bursar. Matilda Benton. Ac-
 countant J M. R Leslie, FCA Librarian R.

Catton, BA *Manx*. Asst Registrar. Rhannon W
 Roberts, BA *Wales*

GENERAL INFORMATION

The Veterinary Coll. of London was formed in 1791 under the presidency of the Duke of Northumberland, beginning with 14 students upon the site at Camden Town that it occupies to-day. The coll. received its first charter of incorporation from Queen Victoria in 1875 and is now governed under a charter granted in 1936 by H.M Queen Elizabeth. With the help of govt grants and other donations the coll was entirely rebuilt, and the new bldg was officially opened in 1937. The coll., which since 1906 has had recog teachers of the Univ of London, was admitted as a sch of the univ in the fac of med. with effect from Oct 1949.

The LIBRARY (13,000 vols.) includes a wide range of books and periodicals on vet and allied subjects.

FIELD STATION Hawkshead House, Hawkshead Lane, North Mimms, Hatfield, Herts (tel. Potters Bar 55486)

ADMISSION. See p. 953 and Appendix III

FIRST DEGREE (of Univ of London) The coll provides courses for the degree of bachelor of vet med. (BVetMed) of Univ of London (5 yrs 1 term); no exemption is allowed from any part of the course

HIGHER DEGREES (of Univ of London)
 MVetMed, MSc, PhD

FEES Undergrad (incl union membership), £65 p.a (£76 p.a from Oct 1962), postgrad £30 p.a (under review).

STUDENT HEALTH SERVICE The coll is affiliated to the student health assocn. of Univ. Coll., Lond. Students may consult the physician at stated times at the Royal Vet Coll. and at all other times at the health centre of Univ Coll.

STUDENTS' UNION. Clubs and socs, scientific, athletic and cultural, are open to all students

PUBLICATIONS *Prospectus*; *Annual Report*, *Incisor* (student magazine).

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	337	—
Women	27	—
Total	364	—

Distribution by Faculties. *Med* (vet med), 347, *sci*, 9, *vet sci*, 8 Total 364.

Included in the figures above are —

Postgraduate students, 9

New admissions, 66.

Students from other countries, 30 (Countries from which largest numbers came * Nigeria, 4, Uganda, 4, Pakistan, 4)

DEGREES AWARDED (by Univ of London) (1959-60) *Med* · BVetMed, 54 *Sci* BSc (spec), 4 Total number of first degrees awarded, 58

DIPLOMAS AWARDED (1959-60) MRCVS, 7.

[Information compiled as at 16/8/61]

SCHOOL OF ORIENTAL AND AFRICAN STUDIES

Founded 1916

Postal Address University of London, London, W.C 1, England

Cables and Telegrams Soasul, Phone, London

Telephones . Langham 9021-8

PATRON—H.M. THE QUEEN

VISITOR—THE MINISTER OF EDUCATION

CHAIRMAN OF THE GOVERNING BODY—The Rt. Hon THE LORD RADCLIFFE, GBE, MA DCL

DIRECTOR—Professor C H PHILIPS, MA *Liv.*, PhD

SECRETARY—Lt -Col H. MOYSE-BARTLETT, MBE, MA *Oxon* , PhD

LIBRARIAN—J. D PEARSON, MA *Camb.*

TEACHING STAFF

[†=Part-Time]

DEPARTMENT OF INDIA, PAKISTAN
AND CEYLON

Bengali

Clark, T W, OBE, MA

Das, S K, MA *Calc.*

Boulton, J. V, BA

Sr. Lectr

Lectr

Asst Lectr.

Hindi

Burton-Page, J. G, MA *Oxon*

Keskar, Yamuna B., BA *Bihar*, MA *Patna*

McGregor, R. S., MA *Oxon* & *N.Z.*

Lectr.

Lectr

Lectr.

Indian Archaeology

Codrington, K. de B., MA *Camb*

Prof.

Indian Music

Bake, A. A., DLitt *Utrecht*, MA *Oxon*

Reader

Indian Philosophy

Friedman, D, DLitt *Ley.*

Reader

Marathi

Lambert, Hester M., MA *Camb.*

Raeside, I M P, BA PhD

Sr Lectr.

Lectr.

Nepali

Clark, T. W, OBE, MA

Burton-Page, J G., MA *Oxon*.

Sl. Lectr.

Lectr

Oriya

Boulton, J V., BA

Asst. Lectr.

Pali

Jain, P. S., MA *Bom.*, PhD

Lectr.

U.K.—ENGLAND (LONDON)

Prakrit

Williams, R H B, BA PhD

SanskritBrough, J, MA *Camb. & Edin*,
DLitt *Edin*, FBABaik, A A, DLitt *Utrecht*, MA *Oxon*Gray, J E B, BA *Dub*Staal, J F, MSc *V U Amst*, PhD *Madr*Wright, J C, MA *Aberd.*, BA**Sinhalese**Reynolds, C H B., MA *Oxon.*, BA**Tamil**

Asher, R E, BA PhD

Mair, J R., BA PhD

UrduAhmad, A., BA *Oxm* & *Lond*Russell, R, MA *Camb*, BA**DEPARTMENT OF SOUTH-EAST ASIA
AND THE ISLANDS****Art and Archaeology of South-East Asia**Christie, A. H., MA *Manc.***Burmese**Pe, Hla, MA *Rangoon*, PhD

Allott, Mrs. Anna J, BA

CambodianJacob, Mrs. Judith M., BA *Camb. & Leeds* †Lectr**Malay**Barrett, E C G, CMG, MA *Camb.*Bottoms, J C, MA *Camb***Mon**Shorto, H. L., MA *Camb.***Oceanic Languages**Milner, G. B., MA *Camb***Old Javanese**Hooykaas, C, DLitt *Ley.***Tai**Simmonds, E. H. S., MA *Oxon.***Vietnamese**

Honey, P. J., BA

DEPARTMENT OF THE FAR EAST**Asian Art**Sullivan, D M, MA *Camb*, PhD *Harv*,
BA**Chinese**Lectr. Twitchett, D. C., MA PhD *Camb* ProfWhitaker, Mrs Katherine P K, BA *H K.*,
MA *Oxon*, PhD (Classical C) ReaderCheng, H, BA *Yenching* LectrChin, Mrs Grace S, BA *Nan-Yang* (Cantonese) Lectr.

Chinnery, J D, BA PhD Lectr.

Downer, G B, BA (Cantonese) Lectr

Graham, A C, MA *Oxon*, BA PhD LectrHanan, P. D, MA *N Z*, BA PhD LectrLee, Y, MA *Peking* (C Epigraphy) Lectr

Lau, Mrs Yin C Lectr

Weys, G F, BA Lectr.

Chinese PhilosophyLau, D. C, BA *H K*, MA *Glas* Lectr.**Japanese**

Daniels, F J, BSc(Econ) Prof

Dunn, C J, BA PhD Lectr

Mills, D E, MA *Camb*, BA Lectr

O'Neill, P G, BA PhD Lectr

Saigo, N., BA *Tokyo* LectrYanada, S, MEcon *Tokyo* Lectr**Korean**Skillend, W E, MA PhD *Camb* Lectr.**Mongolian**Bawden, C. R., MA PhD *Camb.* Lectr.**Tibetan**Snellgrove, D L, MA *Camb.*, PhD Reader**DEPARTMENT OF THE NEAR AND
MIDDLE EAST****Akkadian**

Sagge, H W. F., BD MTh MA PhD Lectr.

ArabicSerjeant, R. B., MA *Edin*, PhD *Camb.* (Mod A) Prof

Arafat, W, BA PhD Reader

Azzam, M. A., MA *Cairo*, PhD Temp Lectr

Cowan, D, MA Lectr

Johnstone, T M, BA BCom Lectr

Norris, H T., MA *Camb* LectrSayigh, T, BA *Beirut* Lectr.**Armenian**Dowsett, C J F, MA PhD *Camb* Lectr**Assyriology**Wiseman, D J, OBE, MA *Oxon*, BA Prof.**Caucasian Studies**Lang, D. M, MA PhD *Camb.*, DLit Reader

Central Asian Art and Archaeology		Cushitic Languages	
Bivar, A. D. H., MA DPhil <i>Oxon</i>	Lectr.	Andrzejewski, B. W., MA <i>Oxon</i>	Lectr.
Central Asian Studies		Hausa	
Henning, W. B., DrPhil <i>Gott</i> , FBA	Prof.	Parsons, F. W., BA <i>Oxon</i> .	Lectr.
Boyce, Norah E. M., MA PhD <i>Camb.</i>	(Iranian) Reader	Swahili	
Hebrew, Modern		Harries, Rev. L. P., MA <i>Oxon.</i> , PhD	Lectr.
Gertner, M.	Lectr.	DEPARTMENT OF PHONETICS AND LINGUISTICS	
Iranian Languages		Comparative Linguistics	
MacKenzie, D. N., MA PhD	Lectr.	Ball, C. J. E., BA <i>Oxon</i>	Lectr.
Islamic Art and Archaeology		General Linguistics	
Rice, D. S., DU <i>Paris</i> , DLat, FSA	Prof.	Bazell, C. E., MA <i>Oxon</i>	Prof. Reader
Fehervari, G., PhD	Rcs Fellow	Robins, R. H., MA <i>Oxon</i> .	
Persian		Linguistics	
Lambton, Ann K. S., OBE, BA PhD DLit	Prof.	Mitchell, T. F., BA	* Reader
Haidari, A. A., MA <i>McG</i>	Lectr.	Buse, J. E., PhD <i>Camb.</i> , BA	Lectr.
Muhaqqq, M., MA PhD <i>Teheran</i>	Lectr.	Okell, J. W. A., BA <i>Oxon</i>	Asst Lectr.
Semitic Languages		Phonetics	
Segal, J. B., MC, MA <i>Camb.</i> , DPhil <i>Oxon</i>	Prof.	Scott, N. C., BA BSc	Prof.
Irvine, A. K., MA <i>St And</i>	Asst Lectr.	Henderson, Eugénie J. A., BA	Reader
Turkish		Carnochan, J., BA	Sr Lectr.
Mundy, C. S., BA	Prof.	Whitley, Mrs Eileen M., BA	Sr Lectr.
Gokyay, O. S., BA <i>Istanbul</i>	Sr. Lectr.	Sharp, A. E., MA <i>Camb</i>	Lectr.
Ménage, V. L., MA <i>Camb.</i> , BA	Lectr.	Sprigg, R. K., MA <i>Camb</i>	Lectr.
		Waterson, Mrs Natalie, BA	Lectr.

DEPARTMENT OF AFRICA

African Languages, Central	
Richardson, I., BA <i>Leeds</i> , PhD	Lectr.
African Languages, East	
Tucker, A. N., MA <i>Cape T.</i> , PhD DLat	Prof.
African Languages, West	
Berry, J., BA <i>Leeds</i> , PhD	Prof.
Arnott, D. W., MA <i>Camb.</i> , PhD	Reader
Innes, G., MA <i>Aberd.</i> , PhD	Lectr.
Rowlands, Rev. E. C., MBE, MA <i>Camb</i>	Lectr.
Winstan, F. D. D., BA <i>Camb</i>	Lectr.

African Music

Jones, Rev. A. M., MA DLat <i>Oxon</i> .	Lectr.
--	--------

Bantu Languages

Guthrie, M., PhD BSc(Eng)	Prof.
Whiteley, W. H., BA PhD	Reader
Atkins, W. G., MA <i>Oxon.</i> , DPhil <i>Prague</i>	Lectr.
Benson, T. G., MA <i>Camb</i>	Lectr.
Carter, Mrs Joan H., MA <i>Oxon</i>	Lectr.
Green, Margaret M., MA <i>Camb.</i>	†Temp. Lectr.
Rycroft, D. K., BA <i>Rand</i>	Lectr.
Westphal, E. O. J., MA <i>Rand</i> , PhD	
(S. Bantu Langs.)	Lectr.

DEPARTMENT OF HISTORY

Asian Economic History	
Caldwell, J. A. M., MA <i>Edm.</i> , PhD <i>Nott.</i>	Lectr.
History of Africa	
Oliver, R. A., MA PhD <i>Camb</i>	Reader
Fage, J. D., MA PhD <i>Camb</i>	Lectr.
Jones, D. H., MA <i>Liv.</i>	(West A.) Lectr.
Gmy, J. R., MA <i>Camb.</i> , PhD	Res. Fellow
History of South Asia	
Philips, C. H., MA <i>Liv.</i> , PhD	(Oriental H.) †Prof.
Basham, A. L., BA PhD, FSA	Prof.
Ballhatchett, K. A., MA <i>Camb.</i> , PhD	(Ind. H.) Reader
De Casparis, J. G., DLat <i>Ley.</i> , PhD <i>Indonesia</i>	(Anc. Ind. H.) Lectr.
Hardy, P., MA <i>Camb.</i> , PhD	(Muslim Period) Lectr.
Harrison, J. B., BA <i>Camb.</i>	(Mod. Ind. H.) Lectr.
Chaudhuri, K. N., BA PhD	(Econ. H.) Rcs. Fellow
History of South-East Asia	
Cowan, C. D., MA <i>Camb.</i> , PhD	Prof.
Wolters, O. W., OBE, MA <i>Oxon</i> .	Lectr.

History of the Far East

Beasley, W. G., BA PhD
 Fraser, A., MA Oxon
 Gray, J., MA Glas
 Loewe, M. A. N., BA

Prof.
 Lectr.
 Lectr.
 Lectr.

Srivastava, R. P., MA Luch, PhD Saug
 Temp Lectr

East African Languages and Cultures

Huntingford, G. W. B., BSc Oxon Lectr.

History of the Near and Middle East

Lewis, B., BA PhD
 Holt, P. M., MA BLitt DPhil Oxon.
 Parry, V. J., MA Oxon., BA Wales
 Wansbrough, J. E., BA Harv.
 Yapp, M. E., BA Burm, PhD

Prof.
 Reader
 Lectr.
 Lectr.
 Lectr.

Geography

Lebon, J. H. G., BSc PhD Sr Fellow

West African Anthropology

Cohen, A., MA Res Fellow

DEPARTMENT OF LAW

Anderson, J. N. D., OBE, MA LLD Camb.
 (Oriental L.) †Prof.
 Gledhill, A., MA Camb, LLD (Oriental L.) Prof.
 Derrett, J. D. M., MA Oxon., PhD
 (Oriental L.) Reader
 Allott, A. N., MA Oxon, PhD
 (African L.) Reader
 Coulson, N. J., MA Oxon. (Islamic L.) Lectr.
 McAleavy, H., MA Camb, BA Manc
 (Chinese L.) Lectr.
 (African L.) Lectr.
 Read, J. S., LLB
 Holland, J. D., BA Oxon
 (Nr & Middle Eastern Studies)
 Res Fellow

DEPARTMENT OF ECONOMIC AND POLITICAL STUDIES**Economics**

Penrose, Mrs. Edith T., AB Calif, MA
 PhD Johns H. (Nr & Middle East) Reader
 Walker, K. R., BA Leeds, DPhil Oxon. Lectr
 Broadbridge, S. A., BSc(Econ) PhD
 (E Asia) Res. Fellow
 McLachlan, K. S., BA Durh
 (Nr & Middle East) Res Fellow
 O'Brien, P. K., BSc(Econ)
 (Nr. & Middle East) Res Fellow

Oriental History

Tinker, H. R., MA Camb, PhD Reader

Politics of South Asia

Mehrotra, S. R., MA Alld, PhD Res Fellow

DEPARTMENT OF ANTHROPOLOGY AND SOCIOLOGY**Asian Anthropology**

Furer-Haemendorf, C. von, DrPhil Vienna Prof
 Bailey, F. G., MA BLitt Oxon, PhD Manc.
 Reader
 Mayer, A. C., BA St John's (Md), PhD Lectr.
 Mendelson, E. M., MA Camb & Chic.,
 PhD Chic. Lectr.

PERCIVAL DAVID FOUNDATION OF CHINESE ART**Chinese Art and Archaeology**

Hansford, S. H., MA DLit Prof.

ADMINISTRATIVE AND OTHER STAFF

Dep. Sec. J. R. Bracken, MA BLitt Oxon.
 Asst. Sec. M. Gatehouse, BA Camb. Accountant
 Sheila E. H. Smith, BA, FCA Asst. Accountant
 Mrs. Maureen Delabye, FCA. Registrar
 Kathleen M. Wooding, MA Oxon. Educn Officer
 H. Blakemore, BA PhD. Student Health Adviser
 N. Malleson, MD, MRCP. Dep Librarian
 R. J. Hoy, BSc(Econ), FLA.

Asst. Librarians J. Lust, BA, E. S. Murrell, BLitt Oxon., MA Camb & Oxon, G. Schofield, BA
 Editorial Asst. Doris M. Johnson, MA Camb

PERCIVAL DAVID FOUNDATION OF CHINESE ART
 Sec-Librarian Betsy W. D. Martin, MA Glas.
 Curator Margaret Medley, BA

GENERAL INFORMATION

As a result of the recommendations of the Reay Cttee. in 1908, the sch. was establd. by royal charter in 1916 as the 'School of Oriental Studies, London Institution', in Finsbury Circus, it was granted the status of a sch. of the univ. and was later allocated space for a permanent (not yet fully completed) bldg on the Bloomsbury site of the univ. In 1938, among other amendments to the

charter, the title of the sch. was changed to 'School of Oriental and African Studies'. During the second world war a large number of intensive courses were given for service personnel, esp. in Chinese, Japanese, Burmese, Arabic, Turkish, Persian and Urdu, and much translation work was done for the various ministries as well as censorship duties. Largely as a result of the sch.'s

initiative an inter-dept commission was set up under the Earl of Scarborough's chairmanship to report on the provision for teaching and res at univ level in Oriental, Slavonic, E. European and African studies. The commission recommended * a substantial expansion of existing facilities, and from 1947 large grants for Oriental and African studies have been made by the U.G.C. In accordance with the commission's recommendation that the whole field of Oriental and African studies should be developed in London, as against a more restricted level in other univs, the sch. devoted its energies in the first post-war quinquennium to building up strong, coherent academic depts, in which a proper balance is sought as between linguistic and cultural studies and the classical and mod aspects of those studies. During the quinquennium 1952-57 expansion continued steadily, though at a slower rate, and the staff was strengthened by numerous new appointments.

A. sch. of the univ. in facs of arts and laws

INCOME (1959-60) £493,482 (principal sources govt grants, 87.7 per cent, contributions from official, foundation and private sources, 7 per cent, fees, 3.3 per cent, endowments, 2 per cent)

LIBRARY Over 230,000 printed books and pamphlets, and 1500 MSS, incl approx 16,000 books in the library of Sir Reginald Johnston.

PERCIVAL DAVID FOUNDATION OF CHINESE ART, 53 Gordon Square, London, W.C.1 (tel Euston 3909), attached to and administered by the sch., comprises collection of Chinese ceramics and associated library presented to univ by Sir Percival David in 1950, to which was added in 1952 a large collection of Chinese monochrome porcelains given by the Hon Mount Stuart W. Elphinstone. Its object is promotion and teaching of art and culture of China and surrounding region.

ADMISSION. See p. 953 and Appendix III

FIRST DEGREES (of Univ of London) The sch. provides courses for the BA honours degree (3 yrs) of the Univ of London in Arabic, Bengali, Burmese, classical Chinese, mod Chinese, Hindi, classical Japanese, mod Japanese, Malay, Marathi, Pali (with Sansk.), Persian, Sansk., Sinhalese, Tamil, Turkish, Urdu, hist branch III, hist branch IV, hist branch V, hist branch VII, African studies.

HIGHER DEGREES (of Univ of London). Supervision provided for LL.M., MA, PhD. LL.M.: courses and supervision in Hindu law, Muhammadan law, constitutional laws of India and Pakistan, African law. MA: courses and supervision in Indo-Aryan, Arabic, Persian, Hebrew & Aramaic, Old & Middle Iranian, Turkish, Chinese, Japanese, Bengali, Hindi, Sinhalese, Tamil, Urdu, compar. philol., gen. linguistics & phonetics, hist., Oriental anthropol., Oriental

archaeol. PhD. candidates supervised in any suby. connected with Oriental or African langs., lit., culture or hist., subject to approval of h.d. of appropriate dept.

Min period of study for all higher degrees, 2 yrs

DIPLOMAS *Academic postgrad. dipls of Univ. of London* Instrucn provided for all or part of the syllabus for dipls in anthropol., colonial studies, Chinese archaeol., Indian archaeol., compar. philol., law, librarianship, phonetics.

School dipls In certain African langs, African law, Asiatic, Armenian, Bengali, Burmese, Chinese, Gujarati, Hebrew, Hindi, Islamic & compar. law, Japanese, Kuidish, Malay, Marathi, Pashto, Persian, Sinhalese, Tamil, Turkish, Urdu.

School special dipls in Bantu langs., compai grammar of the Indo-Aryan langs., IChiew palaeog. & epigraphy, Indian palaeog. & epigraphy, Indian philos., Iranian, West African langs.

Duration of dipl. courses, 1 to 3 yrs. according to suby.

CERTIFICATES Sch. grants certs, for which it provides instrucn, in phonetics, African law, Islamic & compar. law, Indian ethnog., African ethnog. Duration of cert. course, 1 to 2 yrs. according to suby.

COMMERCIAL COURSES Advanced courses (3½ days' duration) for business executives and others arranged at rate of one per vacation on the econ., pol. and soc. problems of the various regions of Asia and Africa in turn. Details from educn officer. Courses of lang. instrucn. for reps of British commercial firms can be arranged on a whole-time or pt-time basis for from 6 to 10 wks in each of the 3 terms. Lectures on hist., culture, religions and customs can be included. Details from asst. sec.

OVERSEAS CIVIL SERVICE COURSES Although most overseas civil service probationers are now assigned either to Oxford or to Cambridge for their prelim. trg., instrucn. in certain langs. continues to be provided at the sch. Short intensive courses are provided for probationers assigned to certain territories in Africa and S.E. Asia. Courses in langs. and Oriental and African laws are also provided for officers of the service on leave.

STUDY LEAVE regularly granted to enable members of staff to visit and pursue res. in the countries in Asia and Africa with which their studies are concerned. Normal duration 1 academic yr.

FEES. Undergrad.: arts, £45 p.a.; dipls, 0.1 sp. dipls, £45 p.a. Other regular courses: fees on applicn to registrar. Postgrad.: arts and laws, £36 p.a. Registration fee on first admission, £1.1s. Union sub. (compulsory), 12s. 6d. per term.

Note: fees are expected to be increased with effect from the beginning of the session 1962-63.

* *Oriental, Slavonic, East European and African Studies. Report of Inter-Departmental Commission of Enquiry* (H.M.S.O., 1947), o/p.

SCHOLARSHIPS, ETC. Forlong scholps (value approx £300 p a) and Forlong exhibitions (value £50) are awarded as funds become available 5 Governing Body undergrad scholps (value £100 p a) offered annually, 3 on results of exam held by London Intercollegiate Scholps. Bd. and 2 on results of interview (tenable for 3 sessions) Governing Body postgrad exhibitions (approx. £300 p a.) tenable for 1 session with possibility of renewal Max of 2 exhibitioners at any one time Other *ad hoc* awards may be made to enable grads of merit to complete work for a higher degree or second first degree (value dependent on individual circumstances) Millicent Harrington scholp. (not less than £120 p a), tenable for 2 sessions, with possibility of renewal for one further session, for study of Tibetan or other langs relevant to Buddhist studies for a higher degree of

Univ. of London, is awarded as funds become available China Assocn. bursary (£250), tenable for 2 terms, for study of Chinese by student who has entered or intends to enter upon an indust or comml career See also p. 808

STUDENT HEALTH SERVICE All sch students able to consult student health adviser Consulting rooms in no 34 Woburn Sq (tel Langham 9028, ext. 50).

STUDENT UNION. All sch. students entitled to facilities, incl membership of jr. common room, facilities for sport and soc clubs. Affiliated to univ union (tel Langham 0916)

PUBLICATIONS *Calendar* (free), *Annual Report* (free), *Bulletin* (30s per part, 3 parts issued per yr.).

THE YEAR 1960

PRINCIPAL BENEFACTIONS Gulbenkian Foundation, £15,000 for seminar room in new library bldg, Leverhulme Trust, £10,000 for res fellowships in soc and econ studies.

NEW DEPARTMENTS AND CHAIRS Phonetics, W African langs

RETIREMENTS Prof C J Gadd (ancient Semitic langs. and civilizations), Prof. W Simon (Chinese)

RESIGNATIONS Dr C Birch (Chinese), apptd assoc prof. of Chinese, Calif, Dr J M B Jones (Arabic), apptd. dir of Sch of Oriental Studies, American Univ, Cairo, F R Palmer (linguistics), apptd. to chair of linguistics, Bangor, H F Simon (Chinese), apptd to chair of oriental studies, Melb.

DEATHS Dr L. D Barnett (far lectr in Indian hist and Sanskrit, 1917-48, actg librarian, 1940-47, hon fellow), J P Mills (reader in lang and culture, with sp ref to SE Asia 1948-53), Emer Prof J. R Firth (prof of gen linguistics, 1944-56, member of staff from 1932, hon fellow)

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year) *

	Full-Time	Part-Time
Men	306	59
Women	83	27
Total	389	86

Distribution by Faculties Arts, 439, laws, 36 Total 475

Included in the figures above are —

Postgraduate students, 161

New admissions, 252

Students from other countries, 286. (Countries from which largest numbers came. India, 53, U S A, 42, Pakistan, 27, Nigeria, 26, Iraq, 17, Ceylon, 11, Egypt, 9)

DEGREES AWARDED (by Univ of London) (1959-60) Arts BA (hons.), 23, MA, 6; PhD, 22 Laws LL.M., 2

DIPLOMAS AWARDED (1959-60) By Univ of London 3 By Sch 3

CERTIFICATES AWARDED (1959-60) 6

* Totals for the entire session 1960-61 were full-time, 412, pt.-time, 239

[Information compiled as at 18/8/61]

SCHOOL OF PHARMACY

Founded 1841; incorporated by Royal Charter 1952

Postal Address · 29-39 Brunswick Square, London, W C 1, England

Telephones · Terminus 7651

CHAIRMAN OF COUNCIL—SIR HARRY JEPHCOCK, DSc *Burm*, MSc, FRIC

DEAN—Professor W. H. LINNELL, MSc PhD *Durh*, DSc, FRIC
CLERK TO THE COUNCIL AND SECRETARY—S. R. CURTIS, BA, FCA

TEACHING STAFF

Pharmaceutical Chemistry		Pharmacognosy	
Whalley, W. B., DSc PhD, FRIC	Prof	Roberts, T. A., BPharm	Asst. Lectr.
Saunders, L., DSc PhD, FRIC	Reader	Lund, Barbara M., BSc <i>Manc</i> , MPharm <i>Nott</i>	Asst. Lectr.
Mathieson, D. W., BSc <i>Glas</i> , PhD	Reader	Pharmacology	
Sharp, L. K., BSc PhD, FRIC	Sr Lectr.	Buttle, G. A. H., OBE, MA <i>Camb</i>	Wellcome Prof.
Fleming, R., BPharm PhD	Lectr.	West, G. B., DSc PhD BPharm	Reader
Gilbert, J. N. T., BPharm, PhD	Lectr.	Bowman, W. C., BPharm PhD	Lectr.
Glenn, A. L., BPharm, BSc PhD	Lectr.	Callingham, B. A., BPharm PhD	Lectr.
Perrin, J. H., BPharm	Asst Lectr.	Cass, Rosemary, BSc PhD <i>St And</i> .	Lectr.
		Rand, M. J., MSc PhD	Lectr.
		Blaber, L. C., BPharm	Asst Lectr.
		Cuthbert, A. W., BSc <i>St And</i> , BPharm	Asst Lectr.
		Spencer, P. S. J., BPharm	Asst Lectr.
Pharmaceutics			
Shotton, E., BSc PhD, FRIC	Prof.		
Cook, A. M., BPharm PhD DipBact, FRIC	Reader		
Biggs, A., BPharm PhD	Lectr.		
Brown, W. R. L., BPharm	Lectr.		
Lewis, C. J., BPharm	Lectr.		
Ridout, C. W. T.	Lectr.		
Wibberley, K., BPharm	Lectr.		
Bergman, L., BPharm	Asst Lectr.		
Brown, M. R., MSc <i>Manc</i>	Asst Lectr.		
Ganderton, D., BPharm	Asst Lectr.		

ADMINISTRATIVE AND OTHER STAFF

Librarian A. J. Evans, BPharm PhD
Advisor to Overseas Students · L. K. Sharp, BSc PhD, FRIC

GENERAL INFORMATION

The sch., founded by the Pharmaceutical Soc of Gt. Britain in 1841, was admitted as a sch. of the univ. in 1925. Control of the sch. was transferred from the Pharmaceutical Soc. to a company limited by guarantee in 1949. A royal charter of incorporation was granted to the sch. in 1952. The council of the sch., as now constituted, includes reps of the Univ of London, the Pharmaceutical Soc. and the academic bd., as well as certain co-opted members. There is an academic bd. which acts in an advisory capacity.

The sch. is now housed in a new bldg. in Brunswick Sq. which was officially opened by H. M. The Queen Mother in April 1960.

LIBRARY is in course of formation and is available to all students.

ADMISSION The sch. is open to men and women students. For admission requirements see p. 953 and Appendix III. Foreign students are

admitted on the same terms as British, but are expected to produce identification papers.

FIRST DEGREE (of Univ of London) All undergrad entrants to the sch. work for the BPharm honours degree (3 yrs.).

HIGHER DEGREES (of Univ of London). MPharm and PhD in pharmaceutical chem., pharmaceutics, pharmacol., pharmacognosy, pharmaceutical engin. sci. All depts of the sch. are available for postgrad. and res. work, and the respective profs and hds of depts are always prepared to advise students wishing to undertake res.

FEES Composition fee (incl. union membership), £64 p. a.

STUDENTS' UNION. Clubs and societies, athletic and cultural, are open to all students.

PUBLICATIONS *Prospectus*, *Calendar*.

THE YEAR 1960

RETIREMENTS Prof W H Linnell (pharm chem).

RESIGNATIONS. Dr A M Barrett (pharmacol), to I C I., Dr B P Block (pharmacol), awarded fellowship at Yale, Dr B. Jaques (pharm chem), awarded post-doctoral fellowship at Stan., Dr D Train (pharm engin sci), joined a partnership of engin consultants

Included in the figures above are —

Postgraduate students, 36

New admissions, 60.

Students from other countries, 50 (Countries from which largest numbers came: Nigeria, 9, India, 9)

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	141	2
Women	60	—
Total	201	2

DEGREES AWARDED (by Univ of London)
(1959-60) BPharm (hons), 39; MPharm, 1,
PhD, 5; DSc, 3

[Information compiled as at 5/9/61]

UNIVERSITY COLLEGE

Founded 1826, incorporated in the University of London, 1907

Postal Address: Gower St, London, W.C 1, England

Cables and Telegrams University College London

Telephone Euston 7050

CHAIRMAN OF THE COLLEGE COMMITTEE—The Rt. Hon LORD COHEN

VICE-CHAIRMAN OF THE COLLEGE COMMITTEE AND TREASURER—SIR FREDERICK JAMES, OBE

PROVOST—SIR IFOR EVANS, DLit

SECRETARY—E. A. L. GUETERBOCK, MA Camb

LIBRARIAN—J. W. SCOTT, BA

TEACHING STAFF

Anatomy and Embryology		Pritchard, E A B., MA MD, FRCP	
Young, J. Z., MA Oxon, DSc Brist., FRS		(Neurol) Hon	Lectr.
(Anat.) Prof, Hd. of Dept		Bellairs, Mrs M. Ruth, PhD	Lectr.
Abercrombie, M, MA BSc Oxon, FRS		Deuchar, Elizabeth M, MA Oxon.,	
(Embryol) Prof		PhD Edn.	Lectr.
Aitken, J. T., MD Glas.	(Anat) Reader	Guillery, R W, BSc PhD	Lectr.
Evans, D H. L., MB BS	(Anat) Reader	James, D W., MB BS	Lectr.
Gray, E G, BSc PhD Wales	(Cytol.) Reader	Quilliam, T A, PhD MB BS	Lectr.
Hamlyn, L. H., MB BS	(Histol) Reader	Craven, J L, BSc MB ChB Manc	Asst Lectr
Ludford, R. J, DSc PhD	(Cytol.) Hon. Lectr.	Higton, D. I. R., MB BS	Asst Lectr

Lefford, Frances, MB BS Asst Lectr
 Lumley, J S P, MB BS Asst Lectr
 MacGregor Williamson, B C, MB BS Asst. Lectr
 Cragg, B G., MA *Camb*, PhD Hon Res Assoc
 Downer, J L de C, MSc *McG*, PhD *Johns H* Hon Res Assoc
 Stephenson, Mrs Elsie M., MSc *N Z*, PhD Hon Res Assoc
 Taylor, W K, MSc *Manc*, PhD Hon. Res Assoc.
 3 Res Assts, 3 Hon. Res Assts, 1 Hon.
 Radiologist, 1 Hon. Vet Consultant, 1
 Radiographer, 1 Artist

Anthropology

Forde, C D, PhD Prof.
 Barnicot, N. A., PhD (Phys A) Prof.
 Kaberry, Phyllis M., MA *Syd*, PhD Reader
 Douglas, Mrs M. Mary, MA DPhil *Oxon* Lectr
 Garlick, J P, BA PhD Lectr
 Middleton, J F M, BA BSc DPhil *Oxon* Lectr.
 Bradbury, R E, BA PhD Asst. Lectr
 2 Res Assts, 3 Hon Res Assts

Archæology, see also Egyptol

Corbett, P. E, MA *Oxon*
 (Classical Art & Archæol) Yates Prof.

Architecture (Bartlett School)

Llewelyn Davies, R, MA *Camb*, FRIBA Prof.
 Lisborg, N., MSc *Copenhagen* Sr Lectr
 Musgrove, J, BArch *Durh* Sr Lectr.
 White-Cooper, R. C., MC, BA, FRIBA Tutor, Sr. Lectr
 Berry, H C (Div of Decoration) Sr Lectr.
 Craig, D S Lectr
 Fisher, R J, Lectr
 Foyle, A. M., BA PhD, FRIBA Lectr
 Goddard, T D Lectr
 Hoar, H. F., BA PhD, FRIBA Lectr
 Plant, C. G. H Lectr
 Smeed, C W J, FRIBA Lectr.
 Watson, N. F., BArch *Durh*. Lectr.
 Weeks, J. R. Lectr.
 1 Hon Res Asst.

Archives, see Librarianship**Art** (Slade School of Fine Art)

Coldstream, Sir William, CBE, DLatt *Nott*
 Slade Prof, Hd of Slade Sch.
 Gerrard, A. H. (Sculpture) Prof
 Etlinger, L. D., PhD *Halle*
 (Hist of A) Durning-Lawrence Prof
 Townsend, W Sr Lectr.
 Dickinson, T, BA *Oxon*. (Film) Sr. Lectr.
 Carter, B. A. R., MA *Camb*. Lectr.
 Forge, A Lectr.
 Rogers, C, OBE Lectr.
 Jenkun, I E T., MA *Camb*. Sec., Tutor
 Aldridge, J. A. M., BA *Oxon*. Asst.
 Betts, Marina A. R., MA Asst.

Brooker, P. Asst
 Butler, R. Asst.
 Camp, J. Asst
 Charlton, G J. Asst
 Cloughton, R. B. Asst
 Collins, J. Asst.
 Feild, M Asst
 George, P Asst.
 Georgiadis, N Asst
 Gross, A. Asst.
 Jones, J S. Asst
 Lamb, L Asst
 McWilliam, F. E. Asst
 Monnington, W. T. Asst.
 Nuttall-Smith, R., BA *Oxon*. Asst.
 Ormrod, F Asst
 Snow, P. Asst
 Sutton, P. Asst.
 Vaughan, K. Asst.

Astronomy

Allen, C. W, DSc *W. Aust* Paeren Prof, Dir of Observatory
 Garstang, R. H., MA PhD *Camb*. Reader, Asst. Dir of Observatory
 Foster, E. W, BSc Lectr.
 Kiang, T, BSc Asst Lectr.
 McNally, D, MSc *Belf*, PhD Asst. Lectr.
 1 Hon Res Asst.

Bibliography, see English, and Librarianship**Biochemistry**

Baldwin, E H F, PhD *Camb* Prof.
 Kerly, L Margaret, MA *Camb*, PhD Reader
 Crook, E. M., MSc *Melb*, PhD *Camb* Reader
 Datta, S P, BSc MB BS Reader
 Greenbaum, A L, PhD DSc Reader
 Clarke, Mrs Patricia H, BA *Camb*. Lectr.
 Law, Kathleen, MSc *Melb*, PhD Lectr.
 Mathias, A. P., PhD Lectr.
 Rabin, B. R, MSc PhD Lectr.
 Shooter, E. M., MA PhD *Camb*.
 (on leave) Lectr
 Fitch, W M, PhD *Calif*. Asst Lectr
 Meadow, Pauline M, MA *Oxon*, PhD Asst Lectr.
 Campbell, P N, PhD DSc Hon. Lectr.
 Dent, Prof C. E., BSc PhD MD, FRIC, Hon. Lectr.
 FRCP
 Gray, Prof. C. H., MD DSc, FRIC, Hon. Lectr.
 FRCP
 Rees, K R, MSc PhD Hon. Lectr.
 Warren, Prof. F L., MA *Oxon*, PhD DSc, Hon. Lectr.
 FRIC
 1 Res. Asst., 5 Hon Res. Assts.

Biometry, see Eugenics**Biophysics**

Katz, B, MD *Leip*, PhD DSc, FRS Prof
 Fatt, P., BA *Calif*, PhD Reader
 Harris, E. J., DIC, PhD DSc Reader
 Mlediti, R., MD *Mexico* Lectr.

Niedergerke, R, MD *Prague* Lectr
 Couteaux, Prof R J, MD DSc *Paris* Hon Res Assoc
 Huxley, H. E., MBE, MA PhD *Camb*, FRS Hon Res Assoc
 Jenden, Prof D J, MB BS *BSc Lond.* Hon Res Assoc.
 Parkinson, J L Asst & Faculty Supt
 3 Assts, 5 Hon Res Assts

Botany

Lewis, D., DSc, FRS Quam Prof
 Bell, P. R., MA *Camb* Reader
 Syrett, P J, MA *Camb* Reader
 Fowden, L., PhD (Plant Chem) Reader
 White, D J B, PhD Sr Lectr
 Chaloner, W. G., PhD *R'dg.* Lectr
 Mahoney, Monica F., MSc PhD Lectr
 Newbould, P J, PhD Lectr
 Tristram, H., BSc *Sheff* Lectr
 Wilkie, D., PhD *Glas* Lectr
 Taylor, K., BSc *Sheff* Asst Lectr
 Gray, D O, BA *Camb* (Biol) Quam Student
 Fogg, Prof. G. E., PhD *Camb.*, BSc Hon Res Assoc
 Hase, E., DSc *Tokyo* Hon Res Assoc
 Pearsall, Prof. W H, DSc *Manc & Durh*, FRS Hon Res Assoc
 3 Res. Assts., 4 Hon Res. Assts

Chemical Engineering, see Engin., Chem

Chemistry

Hughes, E D, PhD *Wales*, DSc, FRIC, FRS Prof, Hd of Dept.
 Lonsdale, Dame Kathleen, DBE, Hon DSc *Wales*, DSc, FRS Prof
 Nyholm, R. S., DSc, FRIC, FRS Prof
 Craig, D. P., MSc *Syd*, DSc, FRIC Prof.
 Bunton, C A, PhD Reader
 Maccoll, A, MSc *Syd.*, PhD DSc Asst. Tutor, Reader
 Lewis, J., PhD *Nott*, DSc Reader
 Millen, D J., PhD Reader
 Poole, H. G., MSc *Melb.*, PhD Reader
 Wassermann, A., PhD *Munich*, DSc Reader
 Ingold, Prof Sir Christopher, DSc, FRS Sp Lectr
 Day, J. N. E., MSc PhD Sr Lectr.
 Banthorpe, D V., PhD Lectr
 Callomon, J H., DPhil *Oxon.* Lectr
 Cooper, R E, PhD Lectr
 Davies, A G, DSc, FRIC Lectr
 Dunn, T M., MSc *Syd*, PhD Lectr
 Figgis, B. N., MSc *Syd.*, PhD *N.S.W.U.T.* Lectr.

Milledge, Mrs H Judith, MSc *S A*, PhD Lectr.
 Pauling, P. J., BS *Cal.Tech.*, PhD Lectr
 Pocker, Y., MSc *Jerusalem*, PhD DSc Lectr
 Ridd, J. H., PhD Lectr.
 Tobe, M L., PhD Lectr
 Vernon, C. A., DSc Asst Tutor, Lectr
 Hoffmann, H M Asst Lectr.
 Strachan, W. M. J., MA *Tor* Asst Lectr.

Walmsley, S. H., PhD Asst Lectr
 Brown, C J, DSc *Birm*, FRIC, FIP Hon Res Assoc
 7 Hon Res Assts

Civil and Municipal Engineering, see Engin., Civil

Classics

Skutsch, O., DrPhil *Gott* (Latin) Prof
 Webster, T B L., MA *Oxon*, LittD *Dub*, FSA (Greek) Prof
 Turner, E G, MA *Oxon*, FBA (Papyrol) Prof
 Browning, R., MA *Glas & Oxon* (Latin & Greek) Reader
 Furley, D J, MA *Camb* (Greek & Latin) Reader
 McLellan, R D, PhD (Latin & Greek) Sr Lectr
 Kells, J H, MA *Camb* (Latin & Greek) Asst. Tutor, Sr Lectr
 Coffey, M, MA PhD *Camb* (Greek & Latin) Lectr
 Cunningham, Margaret L., MA *Oxon.* (Greek & Latin) Lectr
 Handley, E W, MA *Camb* (Greek & Latin) Lectr
 Willis, J A, PhD (Latin & Greek) Lectr
 Lowe, Joyce E, MA (Latin) Asst
 Jory, J, BA (Greek & Latin) Hon Lectr
 Davis, Prof S, MA *Camb & Rand*, DLitt (Greek) Hon Res Assoc
 Rand

Comparative Philology, see Philol

Danish, see Scand. Studies

Dutch History and Institutions, see Hist.

Economics, see Pol Econ.

Egyptology and Coptic

Emery, W. B., MBE, MA *Liv*, DLitt, FBA, FSA Edwards Prof
 Arkell, Rev A J., MBE, MC, DLitt *Oxon*, FSA (Egyptian Archaeol) Reader
 Faulkner, R. O., DLitt, FSA Lectr

Electrical Engineering, see Engin., Electr

Embryology, see Anat.

Engineering, Chemical

Donald, M. B., MSc *M.I.T.*, FRIC Ramsay Memorial Prof.
 Mullin, J W, BSc *Wales*, PhD, FRIC Reader
 Barnard, J. A., DIC, PhD Lectr
 Burgess, A R, DIC, PhD Lectr
 Chayen, R, DIC, BSc PhD, FRIC Lectr
 Ridgway, K, BSc PhD Lectr
 Thorp, H W, BSc Lectr
 Webb, F C., DIC, PhD (Biochem. Engin.) Guinness Lectr

Lunt, R. W., MSc PhD *Liv*, MSc(Eng),
FIP Hon. Lectr.
1 Hon. Res. Asst

Engineering, Civil and Municipal

Chulver, A. H., BSc PhD *Brus*, MA *Camb*
Chadwick Prof., Dir. of Civil & Munic
Engin. Labs
Jessop, H. T., TD, MSc, FIP
(Photoclasticity) Sp. Lectr.
Allison, I. M., BSc(Eng) PhD Lectr.
Brann, R., MEng *Liv* Lectr.
Christodoulides, S. P., BSc(Eng) PhD Lectr.
Elvery, R. H., BSc(Eng) Lectr.
Ives, K. J., BSc(Eng) PhD Lectr.
Kemp, K. O., MSc(Eng) Lectr.
Kemp, P. H., BSc(Eng) PhD Lectr.
Snell, C., MSc Lectr.
1 Res. Asst., 1 Hon. Res. Asst

Engineering, Electrical

Bailow, H. E. M., BSc(Eng) PhD, MIEE,
FRS Pender Prof., Dir. of Labs
Brailsford, F., BSc(Eng) PhD, MIEE Prof.
Brown, J., MA *Edin*, PhD DSc(Eng) Reader
Brookes, B. C., MA *Oxon.* Sr. Lectr.
Gimson, C. E., MSc(Eng) *Nott* Sr. Lectr.
Marriott, H., BEng *Sheff*, BSc(Econ),
MIEE Sr. Lectr.
Taylor, W. K., MSc *Mane*, PhD Sr. Lectr.
Effemy, H. G. Lectr.
Harris, M. R., BSc(Eng) Lectr.
Kenshole, G. E., BSc(Eng) BA Lectr.
Matthews, P. A., BSc(Eng) PhD Lectr.
Sims, G. D., DIC, MSc PhD Lectr.
Stephenson, I. M., MSc(Eng) PhD Lectr.
Stephenson, L. M., PhD Lectr.
Smith-Rose, R. L., CBE, DSc PhD,
MIEE Hon. Res. Assoc.
Susskind, Prof. C., BSc *Cal Tech*, MEng
PhD *Yale* Hon. Res. Assoc.
1 Res. Asst

Engineering, Mechanical

Bishop, R. E. D., MA *Camb*, MS PhD *Stan*,
DSc(Eng) Kennedy Prof.
Billett, H., BSc(Eng) *Birm* Sr. Lectr.
Collins, R., BSc(Eng) *Brist* Lectr.
Davies, R. M., BA Sc *Tor*, MS *Stan* Lectr.
Jackson, K. L., MSc(Eng) Lectr.
Jones, W. J. D., DIC, BSc(Eng) PhD Lectr.
Lambert, T. H., BSc(Eng) PhD Lectr.
Makomaski, A. H., BSc(Eng) PhD Lectr.
Massey, B. S., BSc(Eng) PhD Lectr.
Montgomery, S. R., MA *Camb*, SM
ScD *M.I.T.* Lectr.
Walker, T. H., MEng *Sheff* Lectr.
1 Asst., 1 Hon. Res. Asst

English

Smith, A. H., OBE, PhD *Leeds*, DLit,
FSA Quain Prof., Jt. Hd. of Dept.
2 L.

Sutherland, J. R., MA LLD *Aberd*,
BLitt *Oxon.*, FBA
Lord Northcliffe Prof., Jt. Hd. of Dept.
Quirk, R., MA PhD (Engl. Lang.) Prof.
Brown, A., MA Reader
Haddakin, Mrs. Lilian F., MA PhD
Asst. Tutor, Sr. Lectr.
Mitchell, Prof. A. G., MA *Syd*, PhD
Thomas, D. B., BA *Camb* Hon. Res. Assoc.
Wright, Prof. B. A., MA *Oxon.* Hon. Res. Assoc.
Hulme, Hilda M., MA PhD Sr. Lectr.
Chalker, J., MA Lectr.
Dodgson, J. M., MA Lectr.
Emslie, McD., MA PhD *Camb.* Lectr.
Goolden, P., MA BLitt *Oxon.* Lectr.
Greenslade, B. D., MA Lectr.
Needham, G. I., MA *Oxon* Lectr.
Nowotny, Mrs. Winifred M. T., MA Lectr.
Palmer, K. J., MA Lectr.
Peake, C. H., MA Lectr.
Turner, D. L., MA *Camb.* Lectr.
Warburg, J. F., AM *Wis*, MA Lectr.
Petti, A. G. R., MA Quain Student, Lectr.
1 Res. Asst., 1 Asst., 2 Hon. Res. Assts

Eugenics, Biometry and Genetics

Penrose, L. S., MA MD *Camb*, Hon
DSc *McG*, FRS
(Eugenics) Galton Prof., Hd. of Dept.
Gruneberg, H., PhD *Berl*, MD *Bonn*,
DSc, FRS (Genetics) Prof.
Smith, C. A. B., MA PhD *Camb.*
(Genetical Stats.) Reader
Kalmus, H., MD DSc *Prague* (Biol.) Reader
Ellis, J. R., PhD *Mane.* Lectr.
Holt, Mrs. Sarah B., BSc *Brus*, PhD
(Eugenics) Lectr.
Karn, Miss M. Noel, MA *Camb.* (Eugenics) Lectr.
Bell, Julia, MA *Dub.*, FRCP
(Eugenics) Hon. Res. Assoc.
13 Hon. Res. Assts

French, see also Hist.

Wolledge, B., MA *Leeds*, DUParis Fielden Prof.
Tancock, L. W., PhD Reader
Underwood, V. P., DSc *Lille*, PhD Reader
Smith, C., MA *Mane.*, PhD Sr. Lectr.
Hall, G., PhD Asst. Tutor, Lectr.
King, C. D., PhD Lectr.
Lequet, A. E. A., LèsL. Dipl'd'ÉtSup
Paris, BA Lectr.
Screech, M. A., DLitt *Birm.* Lectr.
Jones, Shirley E., BA Asst. Lectr.
Amraoui, M., LèsL. *Lille* Asst.
Bertaud, J. E., LèsL. Dipl'd'ÉtSup *Paris* Asst.
Grunwald, Mrs. Eva, PhD Asst.
Sandoz, M. A., LèsL. *Paris* Asst.
1 Res. Asst

Genetics, see Eugenics

Geography

Darby, H. C., OBE, MA PhD LittD *Camb.* Prof.
Mead, W. R., MSc(Econ) PhD Reader

- Brown, E H, MSc *Wales*, PhD
Asst Tutor, Reader
- Fleure, Prof. H J, MA *Manc*, DSc *Wales*,
LLD *Edin*, ScD *Bowdoin*, FRS Hon. Lectr.
- Barbour, K. M., BLitt MA *Oxon*. Lectr.
- Bird, E C. F., PhD *A.N.U.*, MSc Lectr.
- Chandler, T. J., MSc Lectr.
- Coppock, J. T., MA *Camb*, PhD Lectr.
- Johnson, J. H., MA *Wis.* Lectr.
- Prince, H C., MA Lectr.
- Sinnhuber, K. A., DPhil *Imbruck* Lectr.
- Thomas, D., MA *Wales* Lectr.
- Ward, R. G., MA *N.Z.* Lectr.
- French, R. A., MA (Eastern Europe) Lectr.
- Broek, Prof. J. O. M., PhD *Utrecht*
Hon. Res. Assoc.
- Clark, Prof. A. H., BA *McM*, MA *Tor.*,
PhD *Calif* Hon. Res. Assoc.
i Res. Asst.
- Geology**
- Hollingworth, S. E., MA *Camb*, DSc
Yates-Goldsamid Prof.
- Barnard, T., DIC, PhD
(Micropalaeontol.) Reader
- Wells, M. K., MSc PhD Reader
- Lloyd, A. J., PhD Lectr.
- Robinson, J. E., PhD *Durh.* Lectr.
- Rutland, R. W. R., PhD Lectr.
- Smith, A. J., PhD *Wales* Lectr.
- Stumpff, E. F., DrRerNat *Heidel.* Lectr.
- Skevington, D., BSc *Brist.* Asst. Lectr.
- Hudson, R. G. S., DSc, FRS Hon. Res. Assoc.
i Hon. Res. Asst.
- German**
- Wilkinson, Elizabeth M., PhD Prof.
- Butler, G. P. G., MA *N.Z.* Lectr.
- Frowen, Mrs Irene, BA Lectr.
- Mowatt, D. G., BA Lectr.
- Rowley, B. A., MA PhD *Camb*.
Asst Tutor, Lectr.
- Sacker, H. D., MA *Camb*. Lectr.
- Wells, G. A., MA PhD Lectr.
- i Res. Asst.
- Greek, see Classics**
- Hebrew**
- Stein, S., PhD *Heidel* (on leave) Reader
- Weiss, J. G., MA *Jerusalem*, PhD Lectr.
- Wisenberg, E., PhD Lectr.
- Parkes, Rev. J., MA *Camb* & *Oxon*,
DPhil *Oxon* Hon. Res. Assoc.
- History**
- Cobban, A. B. C., MA PhD *Camb*.
(French H) Prof., Hd. of Dept.
- Thomson, M. A., MA DPhil *Oxon*
(Engl. H) Astor Prof.
- Allen, H. C., MC, MA *Oxon*
(Amer. H.) Commonwealth Fund Prof.
- Humphreys, R. A., OBE, MA PhD *Camb*
(Latin-Amer. H) Prof.
- Momigliano, A. D., MA *Oxon*,
DLitt *Turn* & *Brist.*, FBA (Anc. H.) Prof.
- Hurstfield, J., BA (Mod. H.) Prof.
- Burns, J. H., MA *Edin* & *Oxon*,
PhD *Aberd* (H. of Pol. Thought) Reader
- Christie, I. R., MA *Oxon* (Mod. H.) Reader
- Kossmann, E. H., LittD *Ley*
(Dutch H. & Instns) Reader
- Reddaway, T. F., MA *Camb*, FSA
(London H.) Reader
- Drower, Margaret S., MBE, BA
(Anc. H.) Sr. Lectr.
- Holdsworth, C. J., MA PhD *Camb*.
Asst. Tutor, Lectr.
- Lynch, J., MA *Edin*, PhD
(Hispanic & Latin-Amer. H.) Lever-
hulme Lectr.
- Morris, J. R., BA *Oxon*, PhD (Anc. H.) Lectr.
- Pole, J. R., BA *Oxon*, PhD *Prin*
(Amer. H.) Lectr.
- Thompson, F. M. L., MA DPhil *Oxon*
Asst. Tutor, Lectr.
- Chorley, G. P. H., BA *Oxon* Asst. Lectr.
- Morgan, D. A. L., BA *Oxon* Asst. Lectr.
- Neale, Prof. Sir John E., MA *Lw* & *Manc*,
DLitt *Wales* & *Birm*, Hon. LittD
Lw, *Camb* & *Leeds*, LHD *Amherst*,
Hon. DLitt, FBA Hon. Res. Assoc.
i Res. Asst.
- Icelandic, see Scand. Studies**
- Italian**
- Weiss, R., BA *Oxon*. Prof.
- Fahy, C., MA *Camb*, PhD *Manc*. Lectr.
- Moores, J., BA Asst. Lectr.
- Latin, see Classics**
- Laws**
- Keeton, G. W., MA LLD *Camb*
(Engl. L.) Prof., Hd. of Dept.
- Lloyd, D., MA *Camb*, LLD
(Jurisp.) Quam. Prof.
- Powell, R., DCL *Oxon* (Roman L.) Prof.
- Ryder, E. C., MA LLB *Camb*. (Engl. L.) Prof.
- Ivamy, E. R. H., LLB PhD (Law) Prof.
- Schwarzenberger, G., DrJur *Tubingen*,
PhD (Internat. L.) Reader
- Millner, M. A., BA LLB *Rand*, BCL *Oxon*
(Engl. L.) Reader
- Scamell, E. H., LL.M. (Engl. L.) Reader
- Webber, G. J., LLD *Manc*. (Engl. L.) Reader
- Forrest, R. M., LLB (Internat. L.) Hon. Lectr.
- Goodman, A., MA *Camb*, LL.M.
(Engl. L.) Hon. Lectr.
- Jacob, I. H., LLB (Engl. L.) Hon. Lectr.
- Cheng, B., LicenDr *Geneva*, PhD
(Internat. L.) Lectr.
- Hargrove, B., LL.M. (Engl. L.) Lectr.
- Holland, D. C., MA *Camb* (Engl. L.) Lectr.
- Korah, Mrs Valentine, LL.M. (Engl. L.) Lectr.
- Parkinson, F., BA (Internat. L.) Lectr.
- Prevezar, S., MA *Camb*, LL.M. *Harv*
(Engl. L.) Lectr.
- Waters, D. W. M., MA BCL *Oxon*
(Engl. L.) Lectr.

Strange, Susan, BSc(Econ)
(Internat. Reins.) Lectr
Zeman, Z A B, DPhil *Oxon*
(Internat. Reins.) Lectr
Harding, R W, LLB (Engl L) Asst Lectr
Brown, E D, BL *Edin*
(Internat L) Asst Lectr
Joynt, Prof C B, MA *W Ont*, PhD *Clark*
(Internat L) Hon Res Assoc
3 Hon Res Assts

Librarianship and Archives

Irwin, R, MA *Oxon*, FLA Prof, Dir of Sch.
Piggott, Mary, BA, FLA Sr Lectr.
Staveley, R., BA, FLA Sr. Lectr.
Watson, A G MA BLitt *Oxon*, FLA Lectr.
Denham, E W., MA *Oxon* (Paleog.) Lectr.
Ede, J R, MA *Camb* (Archive Admin) Lectr.
Foskett, D J, MA, FLA (Sp Libraries) Lectr.
Nixon, H M., BA *Oxon*, FSA (Bibliog) Lectr.
Timings, E K, MA *Camb*, FSA
(Admin. Hist.) Lectr
Vollans, R. F., FLA (Public Libraries) Lectr
1 Demr

Mathematics

Dean, W. R., MA *Camb*
Goldsmid Prof, Jt Hd of Dept
Rogers, C A, DSc, FRs
Astor Prof, Jt Hd of Dept
Roth, K F, BA *Camb*, MSc PhD, FRs Prof
Du Val, P, PhD *Camb*, BSc (Geom) Reader
Bosanquet, L S., MA DSc DPhil *Oxon*
(Pure M) Reader
Estermann, T., DNatSc *Hamburg*, DSc Reader
Stevenson, A. C., MSc (Appl M.) Reader
Kestelman, H, MSc Asst. Tutor, Reader
Archbold, J. W., MA *Camb*. Sr Lectr.
Harris, F. C., MSc PhD Sr. Lectr.
Belinfante, D. C., PhD Lectr.
Few, L., PhD Lectr.
Gillon, J. G., MSc PhD Lectr.
Gladwell, G. M. L., PhD (on leave) Lectr.
Hocking, L. M., MA *Camb*, MSc PhD
(on leave) Lectr
Michael, D H, BSc *Wales*, PhD *Camb* Lectr.
Powell, E. A., MSc PhD Lectr.
Rigby, Constance M., MA *Oxon*, PhD Lectr
Watson, G. L., MA *Camb*, PhD DSc Lectr
Wigglesworth, L. A., MSc Lectr
Davies, H. L., MA *Camb*, BSc *Birm*
Asst Lectr
Smith, S H, BSc Asst Lectr.
Briggs, Prof W. E., PhD *Colorado*
Hon. Res Assoc.
Pearson, Prof E. S., CBE, MA *Camb*,
DSc Hon. Res. Assoc.
1 Hon Res. Asst

Mechanical Engineering, see Engin ,
Mechanical

Municipal Engineering, see Engin , Civil

Norwegian, see Scand. Studies

Pharmacology

Schild, H O., MD *Munch*, PhD *Edin*, Prof.
DSc
Mongar, J L., PhD
(Chem Pharmacol) Reader
Laurence, D R., MD, MRCP
(Pharmacol & Therapeutics) Reader
Dicker, S E., MD *Brussels*, PhD
DSc *Brist* Lectr.
Jenkinson, D. H., BA MSc *Dub* Lectr.
Steinberg, Hannah, PhD Lectr.
Bergel, Prof F., DPhilNat *Fresb*, PhD
DSc, FRIC, FRs
(Pharmacol Chem.) Hon. Lectr
Damelli, Prof J F., PhD *Camb & Lond*,
DSc, FRs (Cell P.) Hon Lectr.
Feldberg, W S., MA *Camb*, MD *Berl*,
FRs Hon Lectr.
Gaddum, J H, MA ScD *Camb*, FRs
Hon Lectr.
Work, T S., PhD DSc *Edin*.
(Chemotherapy) Hon. Lectr.
5 Hon Res Assts, 1 Hon Consultant
Pharmacist

Philology

Szemerényi, O J L., DrPhil *Bud*.
(Compar Philol) Prof

Philosophy

Hampshire, S. N., MA *Oxon*, FBA
(P of Mind & Logic) Grote Prof.
Wollheim, R A., MA *Oxon* Reader
Basson, A. H., BA Lectr.
Downing, P. B., MA *Camb*, PhD Lectr.
Sprigge, T L S., MA PhD *Camb*. Lectr.
Watling, J. L., PhD Lectr.
Williams, B A O., MA *Oxon* Lectr

Phonetics

Fry, D B, PhD (Exper. P.) Prof.
Coustenoble, Hélène, DLit Reader
Arnold, G F., BA Lectr.
Chapallaz, Marguerite, MA Lectr.
Denes, P., MSc *Manc*, PhD Lectr
Fourcin, A. J., BSc(Eng) PhD Lectr
Gimson, A. C., BA Lectr.
O'Connor, J D., BA Lectr.
Fring, J. T., MA *Oxon*. Lectr.
Toohey, Olive M., BA Lectr
Goldman-Eisler, Mrs Frieda, DrPhil *Vserma*
Hon. Res. Assoc.
1 Hon. Res. Asst.

Photogrammetry and Surveying

Thompson, E H., OBE, BA *Camb* Prof.
Miskin, E A., MA *Oxon*, BSc *Steff*,
PhD (Photogrammetry) Reader
Biddle, C. A., MA *Camb*. Sr. Lectr.
Mroz, A., DiplIng *Warsaw* Lectr.
1 Asst.

U.K.—ENGLAND (LONDON)

Physics

- Massey, Sir Harrie, MSc *Melb.*, DSc *Belf.*,
PhD *Camb.*, FRS Quain Prof., Dir. of Labs.
Burbop, E. H. S., BA MSc *Melb.*,
PhD *Camb.* Prof
Hamilton, J., MA *Camb.*, MSc *Belf.*,
PhD *Manc.* Prof.
Gibbs, R. E., DSc, FIP Reader, Dep. Dir. of Undergrad. Labs.
Boyd, R. L. F., BSc(Eng) PhD, MIEE Reader
Brown, G. B., MSc *Manc.*, PhD Reader
Dodd, C., PhD Reader
Hasted, J. B., MA DPhil *Oxon* Reader
Heymann, F. F., BSc(Eng) *Cape T.*, PhD Reader
Seaton, M. J., BSc PhD St Lectr.
Brown, R. C., PhD Sr Lectr.
Jennings, R. E., PhD Lectr.
Aitken, D. K., PhD Lectr.
Davis, D. G., PhD Lectr.
Fox, J. W., PhD Lectr.
Gilbody, H. B., PhD Lectr.
Griffith, T. C., PhD *Wales* Lectr.
Groves, G. V., MA *Camb.*, PhD Lectr.
Heddle, D. W. O., PhD *R'dg* Lectr.
Henderson, C., PhD Lectr.
Heyland, G. R., PhD Lectr.
Roberts, P. W., PhD Lectr.
Lectr., Adviser on Radiation Hazards
Stannard, F. R., PhD Lectr.
Willmore, A. P., PhD Lectr.
Zienau, S., PhD *Liv* Lectr.
Buckingham, R. A., PhD *Camb.* Hon. Res. Assoc.
Edmonds, A. R., PhD *Burm.* Hon. Res. Assoc.
Robins, M. O., MA *Oxon*, FIP Hon. Res. Assoc.
1 Asst., 23 Hon. Res. Assts.

Physiology

- Huxley, A. F., MA *Camb.*, FRS Jodrell Prof.
Gray, J. A. B., MA MB BChir *Camb* Prof
Eggleton, M. Grace, DSc Reader
Harkness, R. D., BSc MB BS Reader
Wilkie, D. R., MD *Yale*, MB BS, Reader
MRCP (Exper. P.) (on leave) Lectr.
Diamond, J., PhD MB BS Lectr.
Harkness, Mrs Margaret L. R., BSc Lectr.
Hubbard, S. J., PhD Lectr.
Lippold, O. C. J., MB BS Lectr.
Pascoe, J. E., BSc Lectr.
Schachter, M., MSc MD CM *McG.* Lectr.
Dawson, G. D., MSc MB ChB *Manc.* Hon Lectr.
Hutter, O. F., PhD Hon Lectr.
Lewis, H. E., BSc MB ChB *Cape T.* Hon Lectr.
Bhoola, K. D., BSc MB ChB *Dub.*, PhD Asst. Lectr.
Noble, D., BSc Asst. Lectr.
Dietz-Spiff, K., BSc Sharpey Scholar
Bayliss, L. E., BA PhD *Camb.* Hon. Res. Assoc.
Carlson, F. D., PhD *Penn* Hon. Res. Assoc.
Davson, H., DSc Hon. Res. Assoc.

- Hill, Prof. A. V., CH, OBE, ScD *Camb.*,
LLD *Belf.* & *Edm.*, DSc *Oxon*, *Manc.*,
Leige, *Johns H.* & *Col.*, MD *Louvain*,
FRS Hon. Res. Assoc.
1 Res. Asst., 9 Hon. Res. Assts

Political Economy

- Allen, G. C., CBE, MCom PhD *Burm.* Prof.
Bowley, Marian E. A., BSc(Econ) PhD Reader
Corlett, W. J., MA *Camb* Reader
Tout, H., CMG, MA *Oxon.* Reader
Sturmer, S. G., MSc *Adel.*, PhD *Manc* Tutor, Lectr.
Donnithorne, Audrey G., MA *Oxon* (Chinese Econ. Studies) Lectr.
Cramp, A. B., BA *Durh.*, PhD Lectr.
Mazumdar, D., BA *Calc.* & *Camb.*,
PhD *Camb* (on leave) Lectr.
Spraos, J., MA *Edin* Lectr.
Sutherland, A., MA *Yale* Lectr.
Allan, I. K., BCom *S.A.* Hon. Res. Assoc.
1 Res. Asst.

Psychology

- Drew, G. C., MA *Brist.* Prof.
Whitfield, J. W., MA *Camb.* Reader
Keir, Gertrude H., MA *St. And* Sr Lectr.
Audley, R. J., PhD Lectr.
Banks, E. K., Charlotte, PhD Lectr.
de Monchaux, Cecily, BA *Syd.*,
PhD *Leid* Lectr.
Dixon, N. F., MBE, PhD *R'dg* Lectr.
Foulds, G. A., MA *Liv*, PhD Lectr.
Green, R. T., PhD Lectr.
Jonckheere, A. R., PhD Lectr.
Kelvin, R. P., MA *Oxon*, PhD Asst. Tutor, Lectr.

- Marshak, Mildred, BA *San Francisco*,
PhD Lectr.
Pond, D. A., MD *Camb.* & *Duke*, DPM,
FRCP Lectr.
Rawlings, Grace, BA Lectr.
Legge, D., BSc Asst. Lectr.
Soddy, K., MD, DPM Hon. Lectr.
Downer, J. L. de C., MSc *McG.*,
PhD *Johns H.* Hon. Res. Assoc.
Marriott, R., MSc *Manc.* Hon. Res. Assoc.
Mason, Prof. G. P., MA *Br. Col.*,
PhD *Wash.* Hon. Res. Assoc.
Summerfield, Prof. A., BSc *Manc.* & *Lond* Hon. Res. Assoc.
1 Demr., 1 Asst., 14 Hon. Res. Assts

Scandinavian Studies

- Smith, Prof. A. H., OBE, PhD *Leeds*,
DLat, FSA (see also Engl.) Dir.
Stromback, Prof. D. Visiting Prof.
Footte, P. G., MA (Old Scand.) Reader
Glyn Jones, W., PhD *Camb.* (Danish) Queen Alexandra Lectr.
Stoverud, T., CandPhilol *Oslo* (Norwegian) W. P. Ker Lectr.

Bergmann, S. A., FilMag *Göteborg*
(Swedish) Crown Princess Louise Lectr
Benediktz, E., CandPhil *Copenhagen*
(Mod. Icelandic) Hon. Lectr

Science, History and Philosophy of

McKie, D., DSc PhD, FRIC Prof
Armstrong, A., MSc PhD Reader
Heathcote, N. H. de V., PhD Reader
Gibbs, F. W., DSc PhD, FRIC
(Hist. of Technol.) Hon. Lectr
Underwood, E. A., MA BSc MD *Glas*,
MRCP (Hist. of Med.) Hon. Lectr
Smeaton, W. A., MSc PhD, FRIC Lectr
Wilkie, J. S., PhD Lectr
Finlay, M. S., BS *Northwestern*, MA *Tor*
Asst. Lectr.

Statistics

Bartlett, M. S., MA *Camb.*, DSc, FRS Prof
David, Florence N., DSc
(on leave) (Probability & Stats) Reader
Johnson, N. L., MSc PhD, FIA Reader
Barton, D. E., PhD Lectr
Pleasant, N. W., BSc Lectr
Saw, J. G., BSc *Birm.*, PhD Lectr
1 Demr & Res Asst, 1 Asst., 3 Hon. Res
Assts

Surveying, see Photogrammetry

Swedish, see Scand Studies

Town Planning

Holford, Sir William, MA *Liv*, Hon.
DCL *Duh*, FRIBA

Prof

Keeble, L. B., MC, MA *Mane*, BSc
Sr Lectr., Dir of Studies
Clarke, J. J., MA *Liv* Sp Lectr.
Youngman, G. P., MA *Camb.*
(Landscape Design) Lectr

Baker, L. F., MA Lectr & Drawing Office Instr.
Glass, Miss Ruth, MA *Col.* Hon. Res. Assoc.
Schlaffenberg, B., DrArch *Rome* Visiting Lectr.
2 Hon. Res. Assts

Zoology and Comparative Anatomy

Medawar, P. B., CBE, MA DSc *Oxon*,
DU *Lodge*, FRS Jodrell Prof.
Wells, G. P., MA ScD *Camb*, FRS Prof.
Freeman, R. B., MBE, MA *Oxon*.
(Taxonomy) Reader
Blest, A. D., DPhil *Oxon*, BSc Lectr.
Boycott, B. B., BSc Lectr.
Bent, L., PhD Lectr.
O'Connor, F. B., PhD *Wales* Lectr.
Robinson, Pamela Lamplugh, PhD Lectr.
Smith, J. M., BA *Camb*, BSc Lectr.
Whitear, Mary, PhD Lectr.
Kermack, K. A., PhD (Biol Stats) Lectr.
Vickerman, K., PhD
(Protozool.) Wellcome Res. Fellow &
Hon Lectr
Dee, Jennifer J., PhD *Glas* Asst. Lectr.
Fisher, R. C., MA PhD *Camb* Asst Lectr.
Comfort, A., MA MB BChir *Camb.*,
PhD Hon. Res. Assoc.
Flynn, Prof. T. T., MBE, DSc *Syd*.
Hon. Res. Assoc.
Fraser, Elizabeth A., DSc Hon. Res. Assoc.
Newth, Prof. D. R., PhD Hon. Res. Assoc.
Watson, Prof. D. M. S., DSc *Cape T. Manc.*
& *Rand*, LLD *Aberd.*, FRS
Hon. Res. Assoc.
3 Res. Assts., 5 Hon. Res. Assts.

ADMINISTRATIVE AND OTHER STAFF

ADMINISTRATIVE OFFICERS Finance Sec. and
Accountant. H. W. Claxton, OBE, FCA.
Bursar E. H. Swann, Registrar. A. J. L.
Cahill, BSc(Econ). Establishment Officer: J. A.
Hussey, OBE. Asst Sec Winifred Radley.
Exec Asst. S. Angus, OBE, MA. Supt. of
Office Services. R. L. Gregory

TUTORS Sr. Tutor and Tutor to Arts Students:
R. D. McLellan, PhD Tutor to Laws Students:
D. C. Holland, MA *Camb* Tutor to Sci. Stu-
dents. R. E. Gibbs, DSc, FIP Tutor to Engin-
Students. H. Marriott, BEng *Sheff*, BSc(Econ),
MIEE. Tutor to Med. Students D. W. James,
MB BS. Tutor to Women Students Mrs. Olive

D Maguinness, MSc DSc Adviser to Post-
grad. Students D. J. B. White, PhD Super-
visor of Dental Students. R. D. Harkness, BSc,
MB BS

LIBRARY Dep Librarian. I. D. Angus, MA
Camb.

WARDENS OF HALLS OF RESIDENCE R. B.
Freeman, MBE, MA *Oxon*. (Bentham Hall);
Kathleen Law, MSc *Melb.*, PhD (Campbell Hall).

STUDENT HEALTH CENTRE Dir. & Asst
Physician: C. J. Lucas, MB BS DPM, Physician.
A. Linken, MB BCh *Rand*

APPOINTMENTS Carcers Adviser. R. C.
Brown, PhD.

GENERAL INFORMATION

University Coll., London, was founded in the
year 1826 and opened on Oct. 1, 1828, under the
title of the University of London. It was incor-

porated as University Coll., London, by royal
charter dated Nov. 28, 1836. This charter was
annulled by act of parliament, passed June 24,

1869, whereby the coll was reincorporated with addnl. powers and divested of its proprietary character. On Jan. 1, 1907, in accordance with the provisions of the University Coll London (Transfer) Act, 1905, passed July 11, 1905, the coll was incorporated in the Univ of London. The facs of arts and laws, and med., were establd in 1832, the fac of sci. in 1870 and the fac. of engin. in 1908, the Slade Sch of Fine Art in 1871, the Bartlett Sch. of Archit in 1913, and the Sch of Librarianship in 1919. Full admission of women to the coll. was permitted in 1878.

INCOME Total income (1959-60), £1,801,048 (govt. grants, 86.2 per cent, fees, 9.2 per cent; endowments, 2.6 per cent, misc., 2 per cent)

FACULTIES AND DEANS *Arts*, Prof J R. Sutherland (Engl); *engin.*, Prof H. E. M. Barlow (electr engin), *laws*, Prof E C. Ryder, *med. scis*, Prof J Z. Young (anat), *sci.*, Prof W R. Dean (maths) The fac of arts includes the Slade sch. of fine art, the sch. of librarianship & archives, the Bartlett sch. of archit and the dept. of town planning

COLLEGE PRECINCT The coll bldgs are being devel within a precinct bordered by Gower St, Gower Place, Gordon St. and Square, and Torrington Place The dept. of town planning is situated outside this precinct, in Flaxman House, Flaxman Terrace, WC 1.

LIBRARY Some 690,000 vols and pamphlets, covering all subjs taught in the coll The working collections in classical archaeol., Egyptol., London, American and Latin-American hist, and Scand. studies, and its sets of periodicals in all subjects, are particularly strong Important MSS. collections are: papers of Jeremy Bentham (75,000 sheets); over 50,000 letters addressed to Lord Brougham, minute books, correspondence, etc., of the Soc. for the Diffusion of Useful Knowledge, papers of Sir Edwin Chadwick, and papers of Sir W. Ramsay Other sp. collections are Graves early sci libr; Barlow Dante libr; Whitley Stokes Celtic libr; Smith Woodward palaeontol. libr.; C K. Ogden libr

The libraries of the following learned socs are housed in the coll. library. British Soc of Franciscan Studies; Geologists' Assocn., Folk-Lore Soc; Hertfordshire Nat Hist Soc & Field Club, Huguenot Soc; London Mathematical Soc; Malacological Soc.; Mocatta Libr. of Anglo-Judaica; Philological Soc, Viking Soc. for Northern Res

MUSEUMS, OBSERVATORY, BOTANICAL GARDEN and FIELD STATION. *Museums*: anat, archit, bot., Egyptol., geol. & mineral, Jewish antiquities (Gustave Tuck), vulcanological (Johnston-Lavis collection), zool. *Univ. Observatory*, Mill Hill Park, NW 7 (tel. Mill Hill 1618) administered by Univ Coll since 1951, designed to meet needs of undergrad and postgrad workers in astron. Applicant for admission should be made to the dir, Prof C. W. Allen, DSc *W Aust Nuffield Res. Garden*, Regent's Park, NW 1.

administered by Univ Coll. since 1953, for population and cytogenetic studies on plants. *Blakeney Field Stn* maintained by dept of bot since 1910 for field trg and res on maritime ecol

COMMUNICATION RESEARCH CENTRE Formed in 1953, concerned with usage and efficiency of signs and symbols, and at present engaged in res on trade, professional and similar dialects of English, enquiries to sec, Communication Res Centre, Univ Coll, Gower St., WC 1

ADMISSION See p 953 and Appendix III Admissions to undergrad courses are arranged by the fac. tutors in consultation with the depts. concerned There is no general coll entrance exam., but sp. entrance tests are set for candidates desiring admission to certain lang. depts. A very limited number of places is available in certain facs and depts for students who are not registered with univ and wish to attend individual lecture courses

Foreign students are admitted to the coll on the same terms as British, but their applicants should be made through the appropriate authorities in this country or through the British Council. The Ramsay Memorial fellowships in chem sci founded by certain foreign govts are tenable at Univ Coll, Lond, among other places.

FIRST DEGREES (of Univ. of London) The coll. provides courses for degrees of the Univ of London as listed below 3 yrs.—BA hon. in archit, classics, Engl, French, geog, German, hist, Italian, philos, psychol, etc., BSc(Econ), LLB, BSc (spec) in biochem, bot, chem, geog, geol, maths, phys, physiol, psychol, stats, zool., etc., BSc(Archit), BSc(Eng) in chem, civil, electr., mech. engin, 5 terms—med (pre-clin only)

HIGHER DEGREES (of Univ of London) MA, MSc(Econ), LLM, MSc, MSc(Eng), 2 yrs from corresp 1st degree Courses of instruct provided for most master's degrees. PhD in arts, econ, laws, sci, engin, med., 2 yrs from 1st degree (3 yrs sci, engin) Higher degrees are open to grads. of other univs

DIPLOMAS. *Awarded by Univ of London.* Undergrad. fine art, 4 yrs Postgrad: anthropol., archaeol., Egyptol., phonetics, normally 2 yrs.; archive admin., law, librarianship, psychol., stats., town planning, normally 1 yr. *Awarded by the coll.* Postgrad. Engl linguistic studies, chem. engin, biochem engin, conservation, micropaleontol., photogrammetry, surveying, 1 yr

CERTIFICATES *Awarded by the coll* Undergrad: landscape design, 2 yrs; town planning, phonetics, Scand langs, normally 1 yr

RESEARCH All depts. as set out above in the teaching staff list are available for postgrad. res work, and the respective profs. are always prepared to advise students wishing to undertake res.

FEES (1961-62) Entrance registration, £2.10s; overseas students, £3.10s Tuition

composition fee *Degree courses*—undergrad arts, £53 to £63 p a, archit., £68 p a; laws, day, £54 p a, evg, £33 p a; sci, £58 to £68 p a, engin, £68 p a, med, for 2nd exam, £118 (5 terms), econ, £52 p a. Postgrad full-time, MA, MSc(Econ), PhD in arts & econ, £38 p a, LL.M. and PhD in laws, £48 p a; MSc and PhC in sci, £38–£68 p a, MSc(Rng) and PhD in engin and med, £68 p a. *Univ academic or postgrad dipls*—anthropol, archaeol., archive admin., Egyptol., librarianship, psychol., £53 (1st yr), £38 (2nd yr, if necessary), stats., £63, law, £42, phonetics, £40, town planning, £26 10s., univ dipl in fine art, £58 p a. *Coll dipls and certs.* Engl linguistic studies dipl, £40; landscape design cert, day, £26 10s (1 yr), evg, £18 p a (2 yrs), town planning cert, evg, £26 10s., Scand studies cert, £6; chem. engin dipl, £68 (1st yr), £46 (2nd yr, if necessary), photogrammetry dipl, £68, surveying dipl, £68; biochem engin dipl, £68, micro-paleontol. dipl, £68, conservation dipl, £68.

ACADEMIC YEAR Each session, comprising 3 terms of about 10 wks each, begins on last Monday in Sept or first in Oct., and ends on last, or last but one, Friday in June.

VACATION COURSE (2 wks, in July) in Engl. phonetics for foreign students and teachers.

ENTRANCE SCHOLARSHIPS. Open awards for undergrads: in arts, 7, agg. value £285 p a, archit., 2, agg. value £80 p a; fine art, 2, agg. value £80 p a, librarianship & archives, 2, agg. value £80 p a; sci, 2, agg. value £80 p a; laws, 1, value £40 p a, med. sci., 3, agg. value £124 p a, engin, 1, value £50 p a, archit. or fine art, 1, value £40 p a., any fac., 2, agg. value £80

p a. Most of these are eligible for supplementation by the Ministry of Educn.

POSTGRADUATE AWARDS open to grads. of other univs. *see* p 808

OLD STUDENTS' ASSOCIATION, founded in 1890

STUDENT HALLS OF RESIDENCE Benthall Hall, 31–44 Cartwright Gdns, W.C.1 (tel. Euston 1836), for men, fees, £135 to £148 per session. Campbell Hall, 5–10 Taviston St., W.C.1 (tel. Euston 5891), for women; fees, £135 to £148 per session.

STUDENT HEALTH ASSOCIATION Establd. in 1945 for students and other members of the coll. Its work is governed by cttee representative of coll cttee and union. Every student of the coll. is a member, membership is optional for other members of the coll. Health centre in coll for treatment and general health exams., general practitioner service under N.H.S. Act available to all members of coll who register with assocn's physician; dental treatment; mass radiography survey.

STUDENTS' UNION. The original union soc (founded 1893) and the women's union soc. (founded 1897) were federated in 1954. The athletic ground is at Shenley, Herts.

PUBLICATIONS *Calendar* (Oct), 17s 6d; *Annual Report*, *University Coll, London*, 1826–1926, by Prof. H. Hale Bellot (Univ of London Press, enquiries to University Coll), 1929, 25s; *Inaugural Lectures* (list from University Coll); *Students' Handbook*; students' magazine, *New Phoenix*; students' newspaper, *PI*; various fac and dept *Prospectuses*.

THE YEAR 1960

PRINCIPAL BENEFICIARIES U.S. National Institutes of Health, \$182,100 for res in pharmacol., physiol., zool., anat and genetics.

MAJOR BUILDING DEVELOPMENTS *Bldgs completed* 3rd and 4th stages of biol sci block, students' refectory.

NEW DEPARTMENT Photogrammetry & surveying (separated from civil & munic engin.)

RETIREMENTS. P. L. Capper (civil & munic engin.), Prof. H. O. Corfiato (archit.); Prof. E. S. Pearson (stats.), T. Ritchie (archit.)

RESIGNATIONS C. P. Andren (civil & munic engin.), Prof. Sir Lunder Brown (physiol.), apptd to Waynflete chair of physiol., Oxford; Dr. P. B. D. de la Mare (chem.), apptd to chair of chem., Bedford Coll, Lond.; Dr. G. E. Fogg (bot.), apptd to chair of bot., Westfield Coll., Lond.; L. C. Green (laws), apptd to chair of internat law, Malaya, C. L. Malloes (stats.), to apptmnt. Columbia Univ and in U.S.A. industry; Dr. D. M. Ross (zool.), apptd to chair of zool., Alta

DEATHS A. Digby Besant (treasurer of coll, 1929–48), Dr. P. Haas (reader in plant chem, 1921–42); H. Winifred Husbands (sr. lectr in Engl.), S. Hyde (sr. lectr in archit.), Sir David Pye (provost, 1943–51), Dr. E. G. Richardson (hon. lectr. in acoustics), D. A. Sholl (reader in anat.), Emer. Prof. Charles Singer (prof. of hist. of med, 1931–42).

Statistics

STUDENT NUMBERS, 1960–61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	2178	436
Women	693	240
Total	2871	676
Distribution by Faculties	Arts, 1535; econ, 139; engin, 265; laws, 420; med. sci., 174; sci., 1014.	Total. 3547

Included in the figures above are:—

Postgraduate students, 852

New admissions (full-time) Undergrad, 817, postgrad, 204

Students from other countries, 676 (Countries from which largest numbers came India, 57; U.S.A., 56, Nigeria, 42)

DEGREES AWARDED (by Univ. of London) (1959-60) *Archit.* BA, 1, (hons), 3 *Arts* BA (agrotat), 2, (hons), 199; MA, 7; PhD, 10; DLitt, 1 *Econ.* BSc(Econ), 7 (incl 1 student jly registered at another instn), (hons), 34 (incl 2 students jly registered at another instn), MSc(Econ), 7 *Engn.* BSc(Engn), 22; (hons.), 32, BSc(ChemEngn), 6, (hons), 8, MSc(Engn), 1, PhD, 9; DSc(Engn), 1 *Law* LLB, 29, (hons), 44; LL.M., 8 *Med*

PhD, 1 *Sci.* BSc, 11, (hons), 193, MSc, 20, PhD, 60, DSc, 7. Total number of first degrees awarded, 591

DIPLOMAS AWARDED (1959-60) *By Univ. of London:* anthropol., 1; archive admin., 3; fine art, 49, law, 4; librarianship, 20, phonetics, 3; psychology, 6; town planning, 24 *By Coll:* archit., 19, biochem engn., 2; chem. engn., 12, micropaleontol., 4, photogrammetry, 7, surveying, 1

CERTIFICATES AWARDED (1959-60) *By Univ. of London:* proficiency in mod foreign langs, 1 *By Coll:* archit., 29, decoration, 9, landscape design, 5; phonetics, 22; town planning, 15.

[Information compiled as at 23/8/61]

WESTFIELD COLLEGE*

Founded 1882; incorporated by Royal Charter 1933

Postal Address: Kidderpore Avenue, Hampstead, London, N.W.3, England

Telephone and Telegrams: Hampstead 7601

CHAIRMAN OF COUNCIL—Rt. Rev THE LORD BISHOP OF CHESTER

PRINCIPAL—KATHLEEN CHESNEY, MA DPhil DLitt Oxon.

SECRETARY TO COUNCIL—ROSALIE M. FORSTER, BA

TEACHING STAFF

Botany

Fogg, G. E., PhD Camb, BSc Prof
Cunnell, G. J., BSc PhD Lectr
Clymo, R. S., BSc Asst Lectr.

Chemistry

Klyne, W., MA Oxon., PhD Edin, DSc Prof
Aylett, B. J., MA PhD Camb. Lectr
Throssell, J. J., BSc Nott., PhD Syr. Lectr
Scopes, Mrs Patricia M., BA BSc DPhil Oxon Asst Lectr
Walton, Annette, BSc PhD Nott Asst Lectr

Classics

Jones, D. M., MA Oxon. Prof
Barratt, Christine, MA Oxon Lectr
Glanville, Irene M., MA Oxon., PhD Lectr.
Beare, Rhona, BA Camb Asst Lectr

English Language and Literature

Jenkins, H., DLitt Rand, MA Prof.
White, Beatrice M. I., MA DLit, FRSL, FRHistS, FSA Reader

Dorsch, T. S., BA Adel, MA Oxon Lectr.
Mackenzie, Eileen K. A., PhD Lectr.
Harlow, C. G., MA BLitt Oxon Lectr
Southam, B. C., MA BLitt Oxon Asst Lectr.

French Language and Literature

Johnston, R. C., MA Oxon & Lond, DUStras Prof
Dickinson, Gladys, LèsL Lyons, BA Prof
Chesney, Kathleen, MA DPhil DLitt Oxon Lectr.
Rutherford, Mrs Marie-Rose, MA PhD Lectr.
Curtis, Renée L., PhD Lectr.
Groves, Margaret, BA Birm Asst Lectr
Marzac, Nicole A. D., LèsL Dipd'ÉtSup Paris Lectrice

German

Beare, Mary, MA Belf & Camb, PhD Bonn Reader
Wynn, Mrs. Marianne, MA Melb., PhD Camb. Lectr
Waldeck, Marie-Luise M. L., BA Asst. Lectr
Braun, Margarete Lektorin

* For women. (Men are admitted for postgraduate work)

History

McKisack, May, MA BLitt <i>Oxon</i> , FSA	Prof.
Hill, Rosalind M. T., MA BLitt <i>Oxon</i> , FSA, FRHistS	Reader
Carsten, F. L., DPhil <i>Oxon</i>	Reader
Rubinstein, N., PhD <i>Florence</i> , FRHistS	Lectr.
Anderson, Mrs. Olive R., MA BLitt <i>Oxon</i> .	Lectr.

Italian

Waley, Mrs. Pamela, BA	Lectr.
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Mathematics, Pure and Applied

Sondheimer, E. H., MA PhD <i>Camb.</i>	Prof.
Stanley, Gertrude K., BSc <i>Oxon</i> , MSc	Reader
Hebborn, J. E., BSc PhD	Reader
Fishel, B., BSc	Lectr.
Doman, B. G. S., BA <i>Oxon</i>	Lectr.
Lampitt, G. A., BSc	Asst. Lectr.
Noiman, C. W., BSc <i>Birm</i>	Asst. Lectr.

Physics

Bellamy, E. H., MA PhD <i>Camb.</i>	Prof.
Donovan, B., BSc PhD	Lectr.
March, P. V., BSc PhD <i>Birm</i>	Lectr.
Ionides, Penelope A., BA <i>Oxon</i>	Asst. Lectr.
Maitin, R. W., MSc	Asst. Lectr.

Spanish

Varey, J. E., MA PhD <i>Camb.</i>	Reader
Deyerdmond, A. D., MA BLitt <i>Oxon</i>	Lectr.
Chapman, Janet A., MA <i>Oxon</i>	Asst. Lectr.
Madariaga, Maria R., Licen Fil&Let <i>Madrid</i>	Lectora

Zoology

Webb, J. E., DSc PhD	Prof.
Sandison, Miss Eyvor E., BSc <i>St And.</i> , PhD <i>Edin</i>	Lectr.
Newell, R. C., BSc	Asst. Lectr.

MAYNARD DIVINITY LECTURER

1961-62—The Rev. Prof. H. Chadwick, DD

ADMINISTRATIVE AND OTHER STAFF

Librarian Dorothy M. Moore, BA <i>Belf.</i>	Asst. Sec. : Eileen McCully, BA, Bldgs. Officer
FLA. Registrar. Joan M. Sims, MA <i>Camb.</i>	J. B. Bate Domestic Bursar Margaret Hills.
Finance Officer. Gwen Chambers, MA <i>Oxon</i> .	

GENERAL INFORMATION

Founded in 1882 by Miss Dudin Brown for the higher educn. of women, the coll. is undenominational, but the principal must be a member of the Church of England. Governed by a council which incl. the principal and reps. of the L.C.C., the univ., the staff and old students. A sch. of the univ. in arts, offering in addn. approved courses in maths (hons. and spec.) in the fac. of sci. Recog. as sch. of the univ. in sci. in Dec. 1959. New depts. of bot., chem., phys. & zool., headed by profs., opened in Oct. 1961. Situated nr. Hampstead Heath with residential accomm. for 300 students.

LIBRARIES The coll. libraries have spacious reading rooms and contain approx. 48,000 vols. and pamphlets and a microfilm reader.

ADMISSION See p. 953 and Appendix III. Students are not admitted under the age of 18 and are required to take the coll. schol. and entrance exam., at which open schol. and exhibitions (aggregate value, £700) are awarded annually. Men as well as women students are admitted to read for higher degrees.

FIRST DEGREES (of Univ. of London). The coll. provides 3-yr. courses for the following degrees of the Univ. of London: BA (hons.) in classics, Greek (with Latin), Latin (with Greek), Engl.,

French, German, hist., maths, Spanish, BSc (spec.) and BSc (gen.) in bot., chem., maths, phys., zool.

HIGHER DEGREES (of Univ. of London) MA and PhD in classics, Engl., French, German, hist., maths, Spanish, MSc and PhD in bot., chem., maths, phys., zool.

FEES Tuition (subject to review)—Undergrad arts, £45 p.a., maths (arts or sci.), £50 p.a., sci., £60 p.a. Postgrad arts, £21 p.a., maths (arts or sci.), £21 p.a., sci., £30 p.a. Union sub. (compulsory) £3 p.a. Residence, £145 per session.

STUDY LEAVE Study leave (1 or 2 terms) is normally given every 7th yr. to members of staff in lectr. and higher grades.

HEALTH SERVICE A student health service has been establd. under the care of the nursing sister (S.R.N.) with a sick-room and dispensary.

ATHLETIC FACILITIES Near-by athletic ground with 3 tennis courts, hockey, net-ball and cricket pitches. There are also 3 hard and 2 grass tennis courts in the coll. grounds.

PUBLICATIONS. *Prospectus* (May), *Report* (Oct.), both issued free of charge; *Hermes* (students' mag.), 1s. 6d., *Old Students' Directory*, 3s. 6d.

THE YEAR 1960

NEW PROPERTIES Nos 328 & 336 Finchley Rd bought to house 12 students & 1 sr member from Oct 1961

RESIGNATIONS Dr P F. Ganz (German), apptd. to univ readership in German at Oxford

DEATHS Dr. Evelyn C Martin (formerly reader in imperial hist); Prof W D Elcock (prof. of romance philol & mediev. French lit).

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	4	3
Women	293	14
Total	297	17

Distribution by Faculties. Arts, 266, sci, 48
Total 314

Included in the figures above are —

Postgraduate students, 26

New admissions, 123.

Students from other countries, 26 (Country from which largest number came U S A, 13)

DEGREES AWARDED (by Univ of London) (1959-60) Arts. BA (gen.), 1; BA (hons.), 80, MA, 2; PhD, 1 Sci: BSc (spec), 19. Total number of first degrees awarded, 100

[Information compiled as at 1/8/61]

WYE COLLEGE

(THE COLLEGE OF ST. GREGORY AND ST. MARTIN AT WYE)

Founded 1893

Postal Address: Wye, Ashford, Kent, England

Cables and Telegrams: College, Wye

Stations: Ashford, 5 m, Wye, $\frac{1}{2}$ m

Telephone: Wye 401

VISITOR—THE MOST REVEREND ARCHBISHOP and Rt Hon LORD FISHER OF LAMBETH

CHAIRMAN OF GOVERNING BODY—The Rt. Hon LORD NORTHBOROUGH

PRINCIPAL—D. SKILBECK, CBE, MA Oxon.

VICE-PRINCIPAL AND LIBRARIAN—E. SITA SMYTH, BA Brist., FLA

SECRETARY AND CLERK TO GOVERNING BODY—C. W. A. GARLAND, BSc

TEACHING STAFF

[†=Part-Time]

Agriculture

Holmes, W., BSc(Agric) PhD Glas Prof.
Bell, R D., BSc Lectr.
Duckworth, J. E., BSc(Agric) PhD Durh (Pig Husb. Res) Lectr
Jones, J G W., BSc Durh, PhD Aberd Lectr
Milbourn, G M., MSc R'dg Lectr
White, N., BSc Durh, MSc Asst Lectr
Paterson, J. D. †Lectr
Gregg, A S., BSc R'dg.
(Seconded from Nat. Inst of Agric.
Bot) Exper. Officer
Keen, P H., BSc(Agric) Farm Mgr.

Statistics Section

Wimble, R. H., BSc Oxon. Lectr.
Poultry Husbandry Research Section
Sykes, A H., BSc DipAgrSc Camb, PhD Edin Lectr, Hd of Section
Hunton, P., BSc Durh, MSc Asst. Lectr.

Biological Sciences

Selman, I W., BSc PhD Reader
Harrison, R M., BSc Lectr.
Schummer, Freda C., MSc Lectr
Ede, D. A., BSc PhD Edin Lectr

Pegg, G F, MSc *Nott*, PhD
 Dowrick, G. J., BSc PhD
 Hill, T. A., BA *Camb*
 Hooper, M. D., BSc PhD
 Freeman, B. E., BSc *Hull*
 Hinchliffe, J. R., BA *Oxon*
 Hull, R., BA *Camb*

Lectr
 Lectr
 Asst Lectr.
 Asst. Lectr.
 Asst Lectr
 Demr.
 Demr

Coley-Smith, J. R., BSc PhD *Birm.*
 Scientific Officer
 Roberts, J. B., MSc *Sheff.*
 Farrar, R. F. Scientific Officer
 Exper. Officer

Horticulture

Miles, H. W., MSc *Brist*, PhD DSc *Manc.* Prof.
 Wilkinson, E. H., BSc *Birm.*, PhD *Brist.*

Agric Res Council Plant Morphogenesis and
 Nutrition Unit
 Richards, F. J., DSc *Birm*, FRS Dir
 Schwabe, W. W., DSc Scientific Officer
 Smith, T. A., BSc PhD *Birm* Scientific Officer

Jackson, A. A., BSc *Manc* Sr. Lectr
 Sykes, J. T., BSc BSc(Hort) Lectr.
 Page, Mary Asst
 Lewis, R. S. Mkt. Gdns. Mgr

Economics

Wibberley, G. P., BSc(Agric) PhD *Wales*,
 MS III Reader
 Folley, R. R. W., BSc BCom *Leeds* Lectr
 Reid, I. G., DipAgric *Camb*, BSc(Econ) Sr Lectr

Sykes, J. D., BSc(Agr) *Leeds*,
 DipAgricEcon *Oxon* Lectr
 Allanson, G., BA *Camb*, MSc Lectr
 Clayton, E. S., BSc(Econ) PhD Lectr
 Best, R. H., BSc *Durh*, MSc Asst Lectr
 Hardaker, J. B., BSc(Agric) *Nott*, MSc
 Asst Lectr.
 Gasson, Ruth, BSc DipAgrEcon *Oxon*
 Res Asst
 Hooper, J. H., DipAgric Admin Asst

Hops

Darling, H. S., BSc MAgr *Belf.*, PhD
 Hd of Dept
 Thompson, F. C., BSc MSc(AgricChem)
Durh Sr Exper Officer
 Beard, F. H., DipHort Sr Exper Officer
 Neve, R. A., BSc R'dg., DipAgricSc *Camb*,
 PhD Sr. Scientific Officer
 Williams, I. H., MSc PhD *Nott*
 Sr Scientific Officer

Physical Sciences

Wain, R. L., MSc PhD *Sheff*, DSc,
 FRIC, FRS (Agric Chem.) Prof.
 Smith, Margaret S., BSc PhD Sr Lectr
 Flood, A. E., MA *Camb*, PhD *Manc* Sr. Lectr
 Askew, G. P., BSc(Agric) BSc Lectr
 Ingram, Jeanne, BSc(Agric) *Edin*, MSc* Lectr
 Rutherford, P. P., BA *Camb*, PhD *Dub* Lectr.
 Jenkins, N. K., BSc PhD *R'dg* Lectr
 Garraway, J. L., BSc Asst Lectr
 Weston, E. W., BSc Asst Lectr.
 Jones, M. A., BSc Asst Lectr
 Whitehead, D. C., BSc PhD *R'dg* Asst. Lectr

Agric Res. Council Growth Substance &
 Fungicide Unit

Fawcett, C. H., MSc PhD Scientific Officer
 Spencer, D. M., BSc *Wales*, PhD
 Taylor, H. F., BSc(Hort) Scientific Officer
 Clarke, G. G., BSc PhD *Brist* Scientific Officer
 Wright, S. T. C., BSc R'dg., PhD *Brist*
 Scientific Officer
 Rothwell, K., BSc *Hull*, PhD Scientific Officer
 Carter, G. A., BSc *R'dg* Scientific Officer

ADMINISTRATIVE AND OTHER STAFF

Registrar, Appointments Sec & Curator of
 Museum A G Page, MA *Oxon* Warden of
 men students I. H. Williams, MSc PhD *Nott*

Warden of women students E Sita Smyth, BA
Brist, FLA. Accounts Officer A Ireland.
 Domestic Bursar Eleanor M. Knight

GENERAL INFORMATION

Originally founded by cardinal archbishop John
 Kempe in 1447 as a secular foundation, the coll
 continued as a teaching instn. until 1893, as part
 of the original foundation consisted of a grammar
 sch. In 1893 it was reorganized as an agric.
 coll for men under the principalship of the late
 Sir A. D. Hall. In 1945 Swanley Hortic Coll.
 (for women) was incorporated.

Closely associated with the coll is the S.E.
 sub-provincial headquarters of the national agric.
 advisory service (N.A.A.S.), the central offices
 and labs of which are located on the coll estate.

CONSTITUTION. Sch of Univ of London since
 1900, and now the dept. of agric. & hort. for
 the univ. Royal charter granted in 1948. Govern-
 ing body of 32 members, incl. reps. of univ,
 Ministry of Agric, coll. staff, S.E. counties, Oxford
 and Cambridge univs, old students' assocns., etc.

INCOME (1959-60). Approx. £265,000 (univ.,
 52 per cent.; govt depts, 22 per cent.; fees, 20
 per cent.; other sources, 6 per cent.).

COLLEGE PRECINCT The bldgs of the original
 15th-cent. foundation remain in use, with con-

siderably extended teaching and residential accomm. added mainly in the present cent. In addn there is a mod. hall of residence at Withersdane, about a quarter of a ml from the coll. The estate comprises approx 850 acres, incl farm, hortic, hop res, etc.

LIBRARY. Approx 12,000 vols

LABORATORIES. Bot., chem., geol., hop resf, hortic, pathol., phys., zool. **MUSEUM** of agric implements (at Court Lodge Farm, Brook, Wye)

ADMISSION. *See* p. 953 and Appendix III. The requirements of the fac. of sci. must be satisfied.

FIRST DEGREES (of Univ of London). The coll provides courses for the following degrees of the Univ of London BSc(Agric), BSc(Hortic), BSc(Agric) with honrs, 3 yrs. Honrs. degree requires higher pie-entry standard in chem and bot or zool. or biol. and course proceeds to greater depth in pure sci subjects

HIGHER DEGREES (of Univ of London): MSc, 2 yrs from BSc, in agric., hortic, and allied sci. subjects by res, or exam. and dissertation, MSc in poultry sci, 2 yrs. from BSc(Agric), zool., or vet sci. by exam. PhD, 3 yrs from BSc by res, candidates normally required to register first for MSc

DIPLOMA 1 yr postgrad in farm bus admin

RESEARCH. Facilities for postgrad res in agric., hortic., agric. chem., bot., zool., geol., agric. econ., hops

FEES PER SESSION. Tuition—undergrad, £60; postgrad., £30. Student union sub. (compulsory), £4

ACADEMIC YEAR. Oct–June. 3 terms of 10 weeks each

ADULT EDUCATION. Lectures given to agric., hortic and sci. socs, farmers' clubs, etc

COLLEGE APPOINTMENTS BUREAU assists in placing qualified students in suitable employment.

GRADUATES' ASSOCIATION. Agricola club and Swanley guild (men and women).

STUDENT RESIDENCES. Main coll bldgs and Withersdane Hall for 145 men and 50 women, Squires residence for 12 postgrad men. Fees, £165 per session (30 wks) for full bd residence

STUDENT UNION. All students belong to the union, which has an elected pres, vice-pres, and council

PUBLICATIONS. *Prospectus*, *Annual Report*; various occasl. publicns, esp. on econ. and hops; reprints from scientific journals and other publicns; student magazine (3s per term).

OTHER FEATURES. Agric Res Council growth substance & fungicide unit and plant morphogenesis unit housed at the coll.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS. Conversion of addnl. bldg for undergrad hostel

RESIGNATIONS. P. Innes (agric.), apptd to farm management post; J. Dalrymple (phys sci), apptd asst. lectr. at Univ. of Auckland; W. A. Kelly (biol sci), apptd asst. lectr., Aberd; A. E. Maddison (agric.), to post in industry; Marion Murray (agric.), to post in industry; P. Payne (agric), apptd sr lectr in agric engin., King's Coll, Newcastle; G. J. Tyler (econ), apptd econ res officer, New South Wales dept of agric; J. Ward (econ), apptd sr lectr in agric. econ at Canterbury Agric Coll, N.Z., D. R. Williams (phys. sci.)

Statistics

STUDENT NUMBERS, 1960–61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	201	8
Women	34	—
Total	235	8

Distribution by Faculties. Sci, 243 (incl agric, 172, hort, 64, agric econ., 7)

Included in the figures above are —

Postgraduate students, 38

New admissions, 71

Students from other countries, 8

DEGREES AWARDED (by Univ. of London) (1959–60). BSc(Agric) honrs, 12, BSc(Agric), 28, BSc(Hort), 17, MSc, 12; PhD, 4. Total number of first degrees awarded, 57

THEOLOGICAL SCHOOLS OF THE UNIVERSITY

[Information compiled as at 18/8/61]

APPOINTED AND RECOGNIZED TEACHERS

In the following list the names of the Theological Schools are indicated thus .

KING'S COLLEGE, THEOLOGICAL DEPT. (KT)

NEW COLLEGE, LONDON (N)

RICHMOND COLLEGE (R)

Theology

Blackman, Rev E C, BD MA Camb. Lectr. (N)

Nuttall, Rev G F, MA DD Oxon. Lectr. (N)

Roberts, Rev. H., MA Wales, PhD Camb.,

DD

Lectr (R)

Simon, Rev U E, MTh DD

Ward, A M, MA Camb

Reader (KT)

Lectr (R)

GENERAL INFORMATION

§KING'S COLLEGE, THEOLOGICAL DEPARTMENT (Church of England), Strand, London, W C.2 (tel : Temple Bar 5454). Dean—Rev Canon S H. Evans, MA BD *Durh.* Sec.—I P Shaw, MA. Founded 1846 (see p 998). Complete courses for all theol. degrees of the univ. Fees for tuition, undergrad course, £50 per session. Hostel for students, King's Coll. Theological Hostel, Vincent Square, S W 1. Fee for residents, £150 per session. Full-time students, 304, internal students of the univ., 127, pt-time students, 22 (*Degrees obtained, 1959-60* BD, 29, PhD, 1 Univ dipls and certs, 2) The coll grants the AKC dipl in theol. to Anglican students who satisfactorily complete the 3-yr course in the Strand and a 4th yr in the dept.'s coll. at St Boniface College, Warminster, Wilts (tel. 3122), warden Rev. E J Townroe, MA Oxon

§NEW COLLEGE, LONDON (Congregational), 527 Finchley Road, London, N W 3 (tel

Hampstead 3719) Principal—Rev W J F. Huxtable, MA. Sec—Miss M A Canning New College, London, the origin of which goes back to 1673, is a theol. coll. (a div sch of the Univ of London), primarily for the trg. of men and women for the Congregational ministry. Internal students of the univ., 44. Fees (for students not on the foundation) . sessional composition fee of the univ., £50, or 9 gs. for each class (*Degrees obtained, 1959-60* . BD, 8, PhD, 1)

§RICHMOND COLLEGE (Methodist), Richmond, Surrey (tel Richmond 1886). Principal—Rev H Roberts, MA Wales, PhD Camb., DD. Opened 1843. Students are, normally, candidates who have been accepted for ministry of the Methodist church, but other univ students may be admitted. Residential accomm for about 60. Internal students of the univ., 55. Fees: £250 per session for residence and tuition. (*Degrees obtained, 1958-59* . BD, 7)

§ Not in receipt of U G C grants

UNDERGRADUATE MEDICAL AND DENTAL SCHOOLS

[Information compiled as at 18/8/61]

CHARING CROSS HOSPITAL MEDICAL SCHOOL

Founded 1834

Postal Address · 62-65 Chandos Place, London, W C.2, England

Telephones : Temple Bar 0581-4, 5256-9

CHAIRMAN—The Rt Hon THE LORD INMAN

DEAN—Professor W. J. HAMILTON, DSc *Glas.*, MD, FRCOG

SECRETARY—B. S. DREWE, TD, MA *Camb.*, LLB, FTCL

TEACHING STAFF

[†=Part-Time]

Anæsthesia		McAllister, R. A. C., BSc <i>Edn</i>	Lectr.
Ashworth, H. K., TD, MB ChB <i>Manç.</i> , FFARCS	†Sr Lectr	Bone, A. H., BSc	Lectr.
Smuth, A. J., FFARCS	†Lectr.	Dentistry	
Hopkin, D. A. Buxton, MD DTM&H, FFARCS	†Lectr	Blennerhassett, T. H., FDSRCS	†Sr. Lectr.
Thompson, R. C. W., MB BS, FFARCS	†Lectr.	Dermatology	
Fairer, J. G., MB BS, FFARCS	†Lectr.	Scott, O. L. S., MA MB BChir <i>Camb.</i> , MRCP	†Sr. Lectr.
Anatomy		Forensic Medicine	
Hamilton, W. J., DSc <i>Glas.</i> , MD, FRCOG	Prof.	Gorsky, J. A.	†Sr. Lectr.
Glenister, T. W., PhD MB BS	Reader	Medicine	
Hill, W. C. O., MD <i>Birm.</i>	†Lectr	De Wardener, H. E., MBE, MD, FRCP	Prof.
Backhouse, K. M., MB BS	Lectr	Hickling, R. A., BA MD <i>Camb.</i> , FRCP	†Sr Lectr
McAllister, Jean R. W., BSc MB ChB <i>Edn.</i>	Lectr	Smith, K. Shirley, MD BSc, FRCP	†Sr Lectr
Biochemistry and Organic Chemistry		Warner, E. C., BSc MD, FRCP	†Sr Lectr.
Patterson, J., MSc PhD <i>St.And.</i>	Prof.	Plummer, N. S., MD, FRCP	†Sr. Lectr.
Sykes, W. O., MSc <i>Sheff</i>	Sr Lectr.	Ironsides, R., MB ChB <i>Aberd.</i> , FRCP	†Sr. Lectr

Parsons-Smith, B. G., OBE, MA MD *Camb.*,
FRCP †Sr Lectr
Fowler, P. B. S., BA DM *Oxon*, MRCP
Bagshawe, K. D., MB BS, MRCP †Sr Lectr

Morbid Anatomy and Histopathology

Symmers, W. St. C., MD *Belf.*, PhD *Birm.*,
MRCP Prof
Sloper, J. C., MA MD *Camb.*, MRCP Reader
Evans, W. E. D., MD †Sr Lectr.
Shore, J., MD Sr Lectr.
Fox, B., MB BS Lectr

Neuro-Surgery

Oliver, L. C., MB BS, FRCS †Sr Lectr.

Obstetrics and Gynaecology

Morris, N. F., MD, FRCOG Prof
Arthure, H. G. E., MD, FRCS, FRCOG †Sr Lectr
Barnes, A. Josephine M. T., MA DM *Oxon*,
MRCP, FRCS, FRCOG †Sr Lectr
Morris, E. D., FRCS Lectr

Ophthalmology

Milner, J. G., MA MB BChir *Camb.*,
FRCS †Sr Lectr.

Orthopaedic Surgery

Trevor, D., MB MS, FRCS †Sr Lectr

Oto-Rhino-Laryngology

Sharp, H. S., BA MB BChir *Camb.*,
FRCS †Sr Lectr
Taylor, L. R. S., BA MB BChir *Camb.*,
FRCS †Sr Lectr

Pædiatrics

Bell, A. D. C., MA DM BCh *Oxon*,
FRCP †Sr Lectr
Jolly, H., MA MD, MRCP †Sr Lectr

Pathology, Chemical

Patterson, J., MSc PhD *St And* Prof
Swale, J., MB BS Sr Lectr.
Pollard, A. C., MA BSc MB BS Sr Lectr

Pathology, Clinical

Shaw, S., MD (Hæmatol.) Reader
Winner, H. I., MA MD *Camb*
Hurley, Rosalinde, LLB MB BS (Bacteriol.) Reader
Pegrum, G. D., MB BS, MRCP Lectr.

Pharmacology

Baker, J. B. E., BSc MA BM BCh *Oxon*. Reader

Physical Medicine

Dunham, W. F., BA BM BCh *Oxon* †Sr Lectr

Physiology

Burns, W., DSc MB ChB *Aberd.* Prof.
Lee, J., MD, MRCP Sr Lectr
Jones, J. J., BSc MB BS PhD Lectr

Psychological Medicine

Randell, J. B., BSc MD *Wales*, MRCP †Sr Lectr.

Public Health

Walton, W. S., GM, MD BHy DPH *Durh.* †Prof.
Stewart, A. B., MD ChB DPH *St. And.* †Sr Lectr.

Radiology, Diagnostic

Reynolds, S. J. R., MA MB BChir
DMRE *Camb.* †Sr Lectr
MacLean, C. D. T., MD ChB *Glas.*,
MRCPed †Lectr.

Radiotherapy

Kunkler, P. B., MA MD, MRCP †Sr Lectr.

Surgery

Rains, A. J. H., MB MS, FRCS Prof.
MacLeod, A. C., MB BS, FRCS †Sr Lectr.
Tanner, N. C., MD ChB *Brist.*, FRCS †Sr Lectr.
Greening, W. P., FRCS †Sr Lectr.
Makey, A. R., MS, FRCS †Sr Lectr.
Philip, P. F., MS, FRCS †Sr Lectr.
Stubbs, J., MB BS PhD Lectr.

ADMINISTRATIVE AND OTHER STAFF

Accountant. C. Wilkins. Librarian B. Armitage, FLA.

GENERAL INFORMATION

Charing Cross Hosp. and Med Sch. were founded in 1818 by Dr. Benjamin Golding, and were formally opened in 1834. A royal charter of incorporation was granted in 1883, and the constitution thereafter continued unchanged until 1948 when, with the introduction of the National

Health Service Act, the med. sch. became incorporated as a separate unit.

LIBRARY. Over 10,000 vols. Small branches in some depts and associated hospis.

MUSEUMS, ETC Pathol. museum (incl. Lockyer

collection of gynaecol & obstet pathol) Anat. dept contains unique collection of human uteri in various stages of gestation

ADMISSION See p 953 and Appendix III

COURSES. Courses for degrees in med and surg Each student holds clin appts in every dept. of the hosp House posts available for mst students after qualification

FEES Annual composition fee, 80 gns (incl boarding charges during studentship in the

associated hosps of the group and union membership)

SCHOLARSHIPS Numerous scholps, exhibitions and prizes awarded annually.

STUDENTS' CLUB Provides facilities for rugger, soccer, cricket, hockey, tennis, golf, netball, swimming, sailing, fencing and athletics, and includes the medical, dramatic, musical, folk-dancing and debating societies.

PUBLICATIONS *Prospectus* Students: *Charing Cross Hospital Gazette* (once a term).

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS *Bldgs completed* professional units in med, surg, and obstet and gynaeol

NEW DEPARTMENTS AND CHAIRS Med

RETIREMENTS R M Patterson (radiotherapy)

RESIGNATIONS G W Bisset (pharmacol.), apptd. to Nat Inst Med Res, Dr P J Huntingford (obstet & gynaeol), apptd. sr lectr in obstet, Lond

Included in the figures above are —

Postgraduate students, nil.

New admissions, 45

Students from other countries, 10. (Country from which largest number came Australia, 4)

DEGREES AWARDED (1959-60). MB BS Lond., 37, PhD Lond., 1; MD Lond., 2, PhD Camb, 1

Statistics

STUDENT NUMBERS, 1960-61

	<i>Full-Time</i>	<i>Part-Time</i>
Men	190	—
Women	44	—
Total	234	—

DIPLOMAS AWARDED (1959-60) LRCP, MRCS, 7, FRCS, 1, FFARCS, 1, DA, 3, DIH, 1, DLO, 2, DMRD, 1, DRCOG, 5; DPM, 3, DTM&H, 2

[Information compiled as at 10/8/61]

GUY'S HOSPITAL MEDICAL SCHOOL

Founded 1769

Postal Address: St. Thomas's Street, London Bridge, London, S.E.1, England

Telephone . Hop 7600

DEAN—E R. BOLAND, CBE, MD, FRCP

SUB-DEAN (Medical School)—J. C. HOUSTON, MD, FRCP

SUB-DEAN (Dental School)—F S. WARNER, FDSRCS

SECRETARY—W. F. COOK

APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time Clin Teacher]

Anæsthetics		Dermatology	
McConnell, W. S., MB BS, FFARCS	(†)	Forman, L., MD	(†)
Helliwell, P. J., MB ChB <i>Edin</i> , FFARCS	(†)	Moynahan, E. J., MRCP	(†)
Hutton, A. M., FFARCS	(†)	•	
Hall, J. M., MB BS, FFARCS		Endocrinology	
Anatomy		Bishop, P. M. F., DM <i>Oxon.</i>	
Warwick, R., BSc PhD MD <i>Manc.</i>	Prof.	Experimental Medicine	
Joseph, J., MD <i>Glas</i>	Reader	Butterfield, J. W. H., OBE, MD	Prof.
Thomas, G. A., PhD BSc	Sr Lectr.	Tlounce, J. R., MD	(Theiap) Reader
Williams, P. L., MA MB BChir <i>Camb</i>	Sr. Lectr.	Forensic Medicine	
Bacteriology		Simpson, C. K., MD	
Knox, R., MD	Prof.	Medicine	
Gorrill, R. H., MD	Reader	Boland, E. R., CBE, MD, FRCP	(†)
Biochemistry		Mann, W. N., MD	(†)
Haslewood, G. A. D., DSc PhD	Prof	Hardwick, C., MD <i>Camb</i>	(†)
Biology		Baker, C. G., OBE, MD	(†)
Foxon, G. E. H., MA <i>Camb</i> , MSc <i>Wales</i>	Prof	Kauntze, R., MD <i>Camb</i>	(†)
Baxter, E. W., PhD BSc	Sr. Lectr.	Maclean, K. S., MD <i>Camb</i>	(†)
Cardiology		Houston, J. C., MD, FRCP	(†)
Baker, C. G., OBE, MD	(†)	Acheson, R. M., MD	(†)
Kauntze, R., MD <i>Camb.</i>	(†)	Mental Diseases	
Deuchar, D. C., MD	(†)	Stafford-Clark, D., MD, DPM	(†)
Chemistry		Neurology	
Gent, W. L. G., PhD BSc	Reader	McArdle, M. J. F., FRCP	(†)
Brain, F. H., MA PhD BSc	Sr Lectr	Obstetrics and Gynæcology	
Children's Diseases		Gibberd, G. F., MS, FRCS, FRCOG	(†)
Evans, P. R., MD MSc <i>Manc</i>	(†)	Blakley, J. B., MB BS, FRCS, FRCOG	(†)
MacKeith, R. C., MA DM <i>Oxon.</i>	(†)	Lewis, T. L. T., MB BChir <i>Camb</i> , FRCS	(†)
Dental Medicine		Tomkinson, J. S., FRCS	(†)
Rushon, M. A., CBE, MA MD <i>Camb</i> , FDSRCS	Prof.	Ophthalmology	
Cooke, B. E. D., FDSRCS	Reader	Law, F. W., MA MD <i>Camb</i> , FRCS	(†)
Dental Prosthetics		Cook, C. A. G., MC, GM, FRCS	(†)
Neill, D. J., DFC, FDSRCS	Sr. Lectr	Orthopædics	
Dental Surgery		Stamm, T. T., MB BS, FRCS	(†)
Warner, F. S., FDSRCS	(†)	Batchelor, J. S., FRCS	(†)
Herbert, W. E., FDSRCS	Prof	Oto-Rhino-Laryngology	
Manne, J. W., FDSRCS	(†)	Cann, R. J., MS	(†)
Thompson, A. R. F., BDS, FDSRCS	(†)	Reading, P. V., MS	(†)
Macdonald, D. M., FRFPGS <i>Glas</i> , FRCSEd	(†)	Salmon, L. F. W., MBE, MS	(†)
Pringle, K. E., FDSRCS (Orthodontics)	(†)	Pædiatric Research	
Rux, R. E., FDSRCS (Orthodontics)	(†)	Polani, P. E., MD <i>Pisa</i>	Prince Philip Prof
Emslie, R. D., BDS, FDSRCS	(Preventive Dent.) Reader	Pathology	
Tulley, W. J., BDS, FDSRCS	(Orthodontics) Reader	Wright, G. Payling, DM <i>Oxon.</i>	Prof.
Vale, W. A., BDS	Sr. Lectr.	De Navasquez, S. J., MD	Reader

Pathology, Chemical

Thompson, R. H. S., DM <i>Oxon.</i>	Prof
Webster, G. R., MA BM BCh <i>Oxon.</i>	Reader
Baker, R. W. R., MA PhD	Sr Lectr.
Wright, P. H., MSc MB ChB	Sr Lectr

Anderson, D. J., MSc BDS

Reader

Macdonald, I., PhD MD

Lectr.

Radiology

Hills, T. H., DMRE <i>Camb.</i> , MB BS	(†)
Dow, J. D., MC, MD	(†)

Pathology, Clinical

Merivale, W. H. H., MB BS	(†)
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Radiotherapy

Wayte, A. B., DMRE <i>Camb.</i> , MB BS	(†)
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Pharmacology

Robson, J. M., DSc MD <i>Leeds</i>	Prof.
Nissim, J. A., MD	Reader

Surgery

Eckhoff, N. L., MS	(†)
Atkins, H. J. B., DM MCh <i>Oxon.</i>	Prof
Wass, S. H., MS	(†)
Blackburn, G., OBE, MCh <i>Oxon</i>	(†)
Lawrie, R. S., MD MS	(†)
Glover, F. N., MS	(†)
Braun, R. H. F., FRCS	(†)
Clarkson, P. W., MBE, FRCS	(†)
Kilpatrick, F. R., MS (Genito-Urinary)	(†)
Kunder, C. H., MChir <i>Camb</i>	(†)
Brock, Sir Russell, MS (Genito-Urinary)	(†)
	(Thoracic) (†)

Physics applied to Medicine

Allsopp, C. B., MA PhD DSc	Prof
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Physiology

Spurrell, W. R., MS, FRCS	Prof
Bishop, P. M. F., DM <i>Oxon</i>	(†)
Hunt, J. N., DSc MD	Reader

ADMINISTRATIVE AND OTHER STAFF

Warden of the College. C. G. Baker, OBE, MD.

Director of Student Health Service. R. Kauntze, MD *Camb.***GENERAL INFORMATION**

MEDICAL SCHOOL. The hosp. itself was founded by Thomas Guy in 1724, but the sch. of med. & surg. attached to Guy's Hospital may be considered to date its formal commencement from about the year 1769.

LIBRARY. The Wills library, available for the use of students, contains approx. 20,000 vols., incl. up-to-date text-books, and the usual med. journals.

MUSEUM. The Gordon museum, presented to the sch. in 1905, contains specimens of pathol. anat. which form a collection unrivalled for its extent and educ. value.

ADMISSION. See p. 953 and Appendix III.

COURSES. Teaching covers all subs. of the med. curriculum, incl. a course for the 1st exam. for med. degrees. Approved courses in the fac. of sci. in anat., physiol. and chem. are also provided.

SCHOLARSHIPS. 2 pre-clin. entrance scholps. of £40 p.a. each for 5½ yrs., awarded annually in March; War Memorial entrance scholp. of £40 p.a., awarded in alternate yrs., confined jr. sci. scholp. of £100 p.a.; confined Epsom scholp. entitling holder to free med. educn. for 5½ yrs.; clin. entrance scholp. entitling holder to free med. educn. for 3 yrs., and exhibition of £120.

POSTGRADUATE AWARDS open to grads. of other univs.: see p. 808.

RESIDENCE. Accommodation is provided for approx. 65 sr. students.

DENTAL SCHOOL. Establd. 1888, it is fully equipped on mod. lines and provides for the teaching of the entire dent. curriculum. Dent. students benefit by the intimate assocn. with the med. sch. **Schols.** 1 War Memorial entrance scholp. of £50 p.a., 1 entrance scholp. of the same value, 1 confined jr. sci. scholp. of the value of £100; Jubilee scholp. of £50 p.a. for sons and daughters of men and women who have (a) obtained a registrable qualif. in med., dent., or nursing after studying at Guy's, or (b) held a teaching appt. in the hosp. or schs. for a period of not less than 5 yrs., 1 confined Epsom scholp. and 1 confined Christ's Hospital scholp. entitling the holders to free dent. educn., 1 Newland-Pedley confined scholp. of £600 offered every 3rd yr. to a grad. of Oxford or Camb. Scholps. (except jr. sci. scholps.) are for normal period of students' course. Annual and other studentships, prizes and medals. See also p. 808.

FEES. Annual composition fee (incl. union membership). med. and dent., £84. 9s.

PUBLICATIONS. *Guy's Hospital Gazette* (fortnightly); *Guy's Hospital Reports* (quarterly).

THE YEAR 1960

Statistics

MEDICAL SCHOOL

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	503	62
Women	86	5
Total	589	67

Included in the figures above are :—

Postgraduate students, 45

New admissions, 122

DEGREES AWARDED (1959-60) MB BS Lond, 61, MD Lond, 9, BSc Lond, 2, PhD Lond, 1, MB BCh Camb, 20, MD Camb, 1, MCh Camb, 1, BM BCh Oxon, 7, MS Lond, 3

DIPLOMAS, ETC, AWARDED (1959-60) LRCP, MRCS, 87, LMSSA, 6, FRCS, 5, FRFPGlas, 1, MRCP, 9, MRCOG, 3, DA, 5, DObsRCOG, 29, DCH, 6, DMRD, 2, DPM, 4; DPH, 1, DLO, 1, FFARCS, 2, FRCP, 4

DENTAL SCHOOL

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	374	20
Women	61	8
Total	435	28

Included in the figures above are :—

New admissions, 79

DEGREES, ETC, AWARDED (1959-60) BDS Lond, 38, FDSRCS, 3, DO, 2, LDSRCS, 82.

Students (full-time) from other countries at med and dent schs, 93.

[Information compiled as at 19/7/61]

KING'S COLLEGE HOSPITAL MEDICAL
SCHOOL

Founded 1831

Postal Address . Denmark Hill, London, S.E.5, England

Cables and Telegrams King's Medical School, London, S.E.5

Telephone : Brixton 8661

DEAN—V. F. HALL, CVO, FFARCS

VICE-DEAN—R. C. F. CATTERALL, MChir Camb, FRCS

SUB-DEAN OF THE DENTAL SCHOOL—Professor R. COCKER, MB ChB Manc, FDSRCS

SECRETARY—W F GUNN, LLB, FCIS

LIBRARIAN—LILIAN SERGEANT, FLA

APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time]

Anæsthetics

Hall, V F, CVO, FFARCS
Cartwright, F. F, FFARCS
Galley, A. H., MB BS, FFARCS
Mason, S. A., MB BS, FFARCS

†Lectr.

Dental Surgery

Cocker, R., MB ChB Manc., FDSRCS
†Lectr. Laddelow, K P., FDSRCS
†Lectr. Moore, A. S
†Lectr. Wade, W. N. L.

Prof.

Prof.

†Lectr.

†Lectr.

U.K.—ENGLAND (LONDON)

Clarke, R. E., FDSRCSed	†Lectr.	Cawthorne, T., FRCS	†Lectr.
Collyer, W. F., FDSRCS	Sr Lectr	Lewis, R. S., MA MB BChir <i>Camb.</i> ,	
Leighton, B. C., MDS	Sr Lectr.	FRCS	†Lectr.
Kettle, M. A., FDSRCS	†Lectr.	Mawson, S. R., MB BChir <i>Camb.</i> , FRCS	†Lectr.
Mayhew, R. A. J., BDS, FDSRCS	Sr Lectr.		
Rosenstiel, E., MDS	Sr Lectr	Pathology	
Halder, A. R.	Sr Lectr	Magnus, H. A., MD, FRCP	Prof
Gimson, A. P.	Sr Lectr	Gray, C. H., MD DSc, FRIC, FRCP	Prof
Cawson, R. A., MB BS BDS, FDSRCS	Sr Lectr.	Cunliffe, A. C., MA MD <i>Camb.</i>	Prof
		Davidson, W. M., MD <i>Aberd.</i>	Prof.
Bennett, D. T., FDSRCS	Sr Lectr.	Cardell, B. S., MD	Reader
Schreiber, C. K.	Lectr	Smuth, M. J. H., MPharm <i>Wales</i> , PhD,	
Garrett, J. R., BSc MB BS	Lectr	FRIC	Reader
2 Demrs.		Jackson, F. L., MB BS DipBact	Sr. Lectr.
Dermatology		Powell, M. E. A., MB BS	Sr Lectr.
Williams, D. I., MB BS, FRCP	†Lectr.	Nicholson, D. C., PhD <i>Leeds</i>	Lectr.
Marten, R. H., BM BCh <i>Oxon</i> , MRCP	†Lectr.	Flute, P. T., MB BS	Lectr.
Diseases of Children		Rawstron, J. R., MB BS	Lectr.
Sheldon, Sir Wilfrid, KCVO, MD, FRCP	†Dir.	Allott, E. N., MA DM <i>Oxon.</i> , FRCP,	Assoc. Teacher
Wilmer, Mary J., MD, FRCP	†Tutor	FRIC	
Fofensic Medicine		Dixon, P. F., MB BChir <i>Camb.</i>	Miles-Ames Fellow
Cogswell, A. P. L., MB BS	†Lectr	4 Demrs	
Rushton, D. G., MB BS	†Lectr	Physical Medicine	
Industrial Medicine		Cooksey, F. S., OBE, MD, FRCP	†Lectr
...		Public Health	
Medicine		Standring, T., MD	†Lectr
Hoyle, J. C., MD, FRCP	†Dir	Radiology	
Livingstone, J. L., MD, FRCP	†Lectr.	Blewett, J., MD <i>Melb.</i> , FFR	†Lectr.
Cutcliffe, M., MD <i>Brist.</i> , FRCP	†Lectr	Rackow, A. M., BSc MB BS DMRE	†Lectr.
Nevin, S., MD <i>Belf.</i> , BSc, FRCP	†Lectr.	Radiotherapy	
Pearson, R. S. B., DM <i>Oxon</i> , FRCP	†Lectr.	Shawcross, E. W. H., MA <i>Camb.</i> , DMRE	
Oakley, W. G., MA MD <i>Camb.</i> , FRCP	†Lectr.		
Oram, S., MD, FRCP	†Lectr	Dailey, Vera M., MB BS DMRT	†Lectr
Anderson, J., MA MD BSc <i>Durh.</i>	Sr. Lectr	Surgery	
Pyke, D. A., MD <i>Camb.</i> , MRCP	†Lectr.	Edwards, H. C., CBE, MS, FRCS	†Dir
Hugh-Jones, F., MA MD <i>Camb.</i> , FRCP	†Lectr.	Yates-Bell, J. G., MB BS, FRCS	†Lectr
Freedman, B., MB BS	†Assoc Teacher	Wood, H. L. C., MS, FRCS	†Lectr
Mental Diseases		Kendall, A. W., MS, FRCS	†Lectr
Liddell, D. W., MB BS DPM, MRCP	†Lectr.	Muir, E. G., MS, FRCS	†Lectr
Wheeler, Lorna, MD <i>Aberd.</i> , DPM	†Lectr.	Heriot, A. J., MS, FRCS	†Lectr
Freudenberg, R. K., MD <i>Freib</i>	†Lectr.	Rees, H., MA MCh <i>Oxon.</i> , FRCS	†Lectr
Obstetrics and Gynaecology		Cleland, W. P., MB BS <i>Adel.</i> , FRCS	†Lectr
Peel, Sir John, KCVO, MA BM		Moore, F. T., OBE, FRCS	†Lectr.
BCh <i>Oxon</i> , FRCS, FRCOG	†Dir.	Catterall, R. C. F., MChir <i>Camb.</i> , FRCS	†Lectr.
Clayton, S. G., MD MS, FRCS, FRCOG		Taylor, S. F., MA BM MCh <i>Oxon</i> ,	
		FRCS	†Tutor
Feroze, R. M., MD, FRCS	†Tutor	Cotton, L. T., MCh <i>Oxon</i> , FRCS	†Lectr
Burt, Lady Joyce M., MB BS	†Assoc. Teacher	Murray, J. G., MB ChB <i>Aberd.</i> , FRCSed	Sr. Lectr
Ophthalmology		McCrea, A. N., MB BChir <i>Camb.</i> , FRCS	†Assoc Teacher
Savin, L. H., MD MS, FRCS	†Lectr		Pfizer Fellow
Lyle, T. K., CBE, MA MD MChir <i>Camb.</i> ,		Tropical Medicine	
FRCS	†Lectr.	Walters, J. H., MD <i>Camb.</i> , FRCP	†Lectr.
Crick, R. P., FRCS	†Lectr.	Veneral Diseases	
Oto-Rhino-Laryngology		Lydon, F. L., MB BCh BAO <i>N.U.I.</i>	†Lectr
Daggett, W. I., MA MB BChir <i>Camb.</i> ,			
FRCS	†Lectr		

ADMINISTRATIVE AND OTHER STAFF

Student Medical Officer. D. A. Pyke, MD
 MA Camb Accountant C. H. Meredith
 Camb, MRCP. Physicist R. D. Moore, Asst Sec D J Britten, BSc(Econ)
 MSc Consultant Statistician M. P. Curwen,

GENERAL INFORMATION

King's Coll Hospital Med Sch. was founded in 1831 and was admitted as a sch. of the univ in the fac. of med in 1909. The med sch provides the clin trg for students reading for the degrees of London, Oxford and Cambridge univs. Under the conditions of the incorporation of King's Coll. in the univ, the univ continues to teach in the King's Coll bldgs the prelim. and inter. med studies leading to the MB BS and BDS degrees of the Univ of London.

The new bldgs of the med sch were opened in 1933, and the new dent sch in 1940. A further extension to the med sch was completed in 1958. The present bldgs incl a library (7000 vols) and reading-room and a pathol museum. The students' hostel is within 5 minutes' walk of the hosp and med sch, and the athletic ground is within 10 minutes' walk. There is a 2nd athletic ground near by.

TEACHING HOSPITALS King's Coll H.; Belgrave H., Dulwich H.

ADMISSION See p 953 and Appendix III.

FIRST DEGREES. Clin course only for MB BS Lond., MB BChir Camb, BM BCh Oxon, each 3 yrs; for BDS Lond., 3 yrs. 3 mos

LICENCE Clin. course for LDS of Royal Coll. of Surgeons, 3 yrs.

RESEARCH Facilities in med., surg and all branches of pathol Sp MRC res inst. in deafness

ALLIANCE Registrar exchange scheme with Univ of Toronto

FEES Annual composition fee (incl. union membership) med., £90, and dent, £78

SCHOLARSHIPS Schols. to the value of £2000 are available for award annually. 23 approved intern appts. are made every 6 mos

POSTGRADUATE AWARDS open to grads of other univs see p 808.

STUDENT HEALTH SERVICE. Instituted 1938, a pt-time med officer, who is also available for consultation, is in charge

PUBLICATIONS Official: Med. and Dent. Sch. *Prospectuses, Annual Report* Student. *King's Coll. Hospital Gazette* (3 times p a). *King's and Some King's Men*, by W. Lyle (O U.P., 1935, 25s, *Addendum*, 1950, 30s)

THE YEAR 1960

NEW DEPARTMENTS AND CHAIRS Chairs in bacteriol and hæmatol

DEATHS Sir Charlton Briscoe (lectr. in med, 1908-35), J Bell Milne (lectr. in prosth, 1923-31, dir, dent sch, 1932-47)

Statistics

STUDENT NUMBERS, 1960-61
 (as at the beginning of the academic year)

	Full-Time	Part-Time
Men	222	—
Women	55	—
Total	277	—

Distribution by Faculties Dent, 79; med, 193; sci., 5.

Included in the figures above are —

Postgraduate students, 30

New admissions, 74 (50 med, 20 dent, 4 sci)

Students from other countries, 17. (Country from which largest number came Ghana, 3)

DEGREES AWARDED (1959-60) Dent. BDS Lond., 12 Med. MB BS Lond., 40; MB BChir Camb, 9, BM BCh Oxon., 2, MD Lond., 1; MDS Lond., 1 Total number of first degrees awarded, 63

DIPLOMAS, ETC, AWARDED (1959-60) LDSRCS, 18; LRCP, MRCS, 48, FRCS, 1, MRCP, 3

[Information compiled as at 18/8/61]

LONDON HOSPITAL MEDICAL COLLEGE

Founded 1785, incorporated as a constituent School of the University of London in 1900

Postal Address: Turner Street, London, E 1, England

Telephones: Bishopsgate 0644-8

CHAIRMAN—R. M. M. PRYOR, MBE

DEAN—H. B. MAY, MD *Camb*, FRCP

MEDICAL SUB-DEAN—J. V. CRAWFORD, MBE, MB BS, FRCS

DENTAL SUB-DEAN—N. L. WARD, DDS *Chic*, LDS *Liv*

SECRETARY—H. P. LAIRD, BA

APPOINTED AND RECOGNIZED TEACHERS

[† = Part-Time]

Anæsthetics		Ward, N. L., DDS <i>Chic</i> , LDS <i>Liv</i>	
Brown, A. I. P., FFARCS	(†)	Asst. Dir. of Conservative Dent	
Fox, G. P., MA <i>Camb</i> , FFARCS	(†)	Wilson, H. E., LDS <i>Belf.</i>	(†)
Anatomy		Dermatology	
Harrison, R. J., DSc <i>Glas.</i> , MA MD <i>Camb.</i>		Russell, B. F., MD, FRCP	(†)
Johnson, F. R., MD	Prof Reader	Diseases of Children	
Bacteriology		Dobbs, R. H., MD <i>Camb.</i> , FRCP	(†)
Barwell, C. F., MA MD <i>Camb</i>		Forensic Medicine	
Goldsmith Company's Prof		Camps, F. E., MD	Reader
White, R. G., MA DM <i>Oxon.</i>	Reader	Medicine	
Biochemistry		Bornford, R. R., DM <i>Oxon</i> , FRCP	(†)
Warren, F. L., MA <i>Oxon.</i> , PhD DSc, FRIC	Prof	Brigden, W. W., MD, FRCP	(†)
Biochemistry, Experimental		Ellis, J. R., MBE, MD <i>Camb</i> , FRCP	(†)
Morris, C. J. O. R., PhD MSc, FRIC	Prof.	Evans, Lord, GCVO, MD, FRCP	(†)
Dental Anatomy		Floyer, M. A., MA MD <i>Camb</i> , MRCP	(†)
Fearnhead, R. W., MDS	Reader	Henson, R. A., MD, FRCP	(†)
Dental Pathology		Hunter, D., CBE, MD, FRCP	(†)
Miles, A. E. W., FDSRCS	Prof.	Ledingham, J. M., MD	Reader
Dental Prosthetics		Mason, A. S., MD <i>Camb</i> , MRCP	(†)
Fish, S. F., FDSRCS	Asst. Dir	Perry, K. M. A., MD, FRCP	(†)
Dental Surgery		Rusby, N. L., DM <i>Oxon</i> , FRCP	(†)
Allen, S. G., FDSRCS	(†)	Wilson, C., MA DM <i>Oxon.</i> , FRCP	Prof
Beresford, J. S., BDS NZ, DOrth	(†)	Wright, J. T., DM <i>Oxon</i> , MRCP	(†)
Hankey, G. T., OBE, TD, FDSRCS	(†)	Mental Diseases	
Keizer, W. R., FDSRCS	(†)	Wilson, H. L., MD <i>Camb</i> , FRCP	(†)
Slack, G. L., OBE, TD, DDS <i>Liv</i> , FDSRCS	Prof	Morbid Anatomy	
		Doniach, I., MD	Prof
		Landells, J. W., MB BChir <i>Camb</i>	Reader
		Weinbren, H. K., MD BSc <i>Rand</i>	(Exper. Pathol.) Reader

Neuro-Surgery		Physical Medicine	
Northfield, D. W. C., MS, FRCS	(†)	Mason, R. M., MA <i>Oxon</i> , DM, MRCP	(†)
Crawford, J. V., MB, MB BS, FRCS	(†)	Tegner, W. S., MA BM BCh <i>Oxon</i> , FRCP	(†)
Obstetrics and Gynaecology		Physiology	
Brews, R. A., MD MS, FRCS, FRCOG		Cross, K. W., PhD MB BS, MRCP	Prof
Easton, A. L. T., MD <i>Camb</i> , FRCS		Plastic Surgery	
Percival, R. C., FRCS, FRCOG	(†)	Heanley, C. L., TD, MB BCh <i>Camb.</i> , FRCS	(†)
Ophthalmology		Radiology	
Lister, A., MB BCh <i>Camb.</i> , FRCS	(†)	Murray, R. S., MD <i>Belf</i> , DMR, FRCSI	(†)
Orthopaedics		Rae, L. J., MA MB BCh <i>Camb.</i> , DMRE	(1)
Clarke, H. Osmond, CBE, MB BCh		Radiotherapy	
BAO <i>Dub</i> , FRCS, FRCSI	(†)	Shanks, W., MSc MB BCh BAO <i>Belf</i> , FFR	(†)
Lew, W. A., OBE, TD, MD <i>Camb</i> , FRCS	(†)	Social and Preventive Medicine	
Vaughan Jackson, O. J., BM BCh <i>Oxon</i> , FRCS	(†)	Morris, J. N., MA <i>Glas</i> , DSc DPH, FRCP	Prof.
Watson-Jones, Sir R. W., BSc MChOrth <i>Liv.</i> , Hon FRCS, Hon FRACS, Hon FACS, FRCSEd	(†)	Surgery	
Oto-Rhino-Laryngology		Butler, E. C., MB BS, FRCS	(†)
Bowen-Davies, A., MB BCh <i>Camb</i> , FRCS	(†)	Dix, V. W., MA, FRCS	Prof
Keogh, C. A., MB BCh BAO <i>Belf</i> , FRCS	(†)	Moore, A. M. A., FRCS	(1)
Lindahl, J. W. S. H., MA MCh <i>Camb</i> , FRCS	(†)	Richardson, J. E., MS, FRCS	(†)
Pathology		Rutchie, H. D., MA <i>Glas.</i> , ChM <i>Edn</i> , FRCSEd	Reader
May, H. B., MD <i>Camb</i> , FRCP		Taylor, H., MA MD MCh <i>Camb.</i> , FRCS	(†)
Perrin, J., MD <i>Camb</i> , MRCP		Tresidder, G. C., MB BS, FRCS	(†)
Salaman, M. H., MA MD DipBact	(†)	Thoracic Surgery	
Pharmacology		Thompson, V. C., MB BS, FRCS	(†)
Joyce, C. R. B., MA BSc PhD	Sr Lectr.	Flavell, G., FRCS	(1)
Weatherall, M., MA DM <i>Oxon</i>	Prof	Venereal Diseases	
		King, A. J., MB BS, FRCS	

GENERAL INFORMATION

The hosp. and annexe at Brentwood provide 884 beds.

LIBRARY AND MUSEUM. Library (11,000 vols) incl Thomson Yates res. library, containing chief British and foreign periodicals for anat., physiol. and pathol. New addns. to museum incl. section on forensic med.

LABORATORIES. Teaching and res. labs are provided for (1) bacteriol., (2) pathol. & morbid anat. in the Bernhard Baron Inst. of Pathol., (3) anat., (4) pharmacol., (5) physiol. & histol., (6) org. chem. & biochem., (7) exper. biochem., (8) forensic med., (9) med. & surg. res. labs., (10) dent. pathol., (11) conservative & prosthetic dent.

ADMISSION. See p. 953 and Appendix III.

FIRST DEGREES MB BS Lond., 4½ yrs; BM BCh *Oxon*, MB BCh *Camb*, each 3 yrs.; BSc (spec.) Lond., 1 yr. after passing and MB Lond.; BDS Lond., 4½ yrs.

FEES Entrance fee. £10. 10s. Annual competition fee (incl. union membership) med. and dent., £72.

SCHOLARSHIPS. There are 48 scholcs. and prizes.

RESIDENCE. Hostel for 128 men and 16 women students adjacent to coll. (tel. Bishopsgate 7017). Charges. £3. 7s to £4. 1s. per week.

PUBLICATIONS. *Prospectus* and *Calendar* (annual); *Directory of former students* (every 3 yrs); *The Hist. of the London Hosp.* (Arnold & Co, 1910); (students) *L.H. Gazette*.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS Commencement of long-term modernization of London Hosp

RETIREMENTS. Sir Russell Brain, Bt. (neurol.), Dr. W. Evans (cardiol.)

RESIGNATIONS. W T Irvine (surg), apptd to chair of surg at St Mary's Hosp., London, Dr E M. Glaser (physiol), apptd to post in industry

HONORARY DEGREES. DSc—Dr W Evans

Statistics

	STUDENT NUMBERS, 1960-61	
	Full-Time	Part-Time
Men	455	3
Women	95	—
Total	550	3

Distribution by Faculties Dent, 133; med, 414, sci., 5

Included in the figures above are —

Postgraduate students, 4

New admissions, 118

Students from other countries, 42

DEGREES AWARDED (1959-60) BDS Lond, 17, MDS Lond, 1, MB BS Lond, 46; BSc Lond, 4, DSc Lond, 1, MD Lond., 1, PhD Lond, 2, MD Camb, 2, MB BCh Camb, 16, DM Oxon, 1, BM BCh Oxon., 6 Total number of first degrees awarded, 89

OTHER QUALIFICATIONS AWARDED (1959-60) LDS, 9, LRCP, MRCS, 42, LMSSA, 2

[Information compiled as at 18/8/61]

MIDDLESEX HOSPITAL MEDICAL SCHOOL

Founded 1835

Postal Address: Mortimer St., London, W 1, England

Cables and Telegrams Middlesex Hospital Medical School, London, W.1

Telephone: Museum 8333

CHAIRMAN—Colonel The LORD ASTOR OF HEVER

DEAN—Professor Sir BRIAN WINDEYER, MB BS Syd, DSc Br Col, DMRE Camb, MRCP, FRCS, FRCSed, FRACS, FFR

SECRETARY—EILEEN M. WALTON

APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time]

Anæsthetics		Lawson, W, MSc <i>Lw</i> , FRIC	Reader
Dinnick, O P., MB BS	(†)	Kellie, A E, PhD	Sr Lectr.
Sellick, B. A , MB BS		Jepson, J B., MA <i>Camb</i> , BSc DPhil <i>Oxon</i> , FRIC	Sr Lectr
Anatomy			
Walls, E W., BSc MD <i>Glas</i>	Prof.	Biology	
Silver, P H S , PhD MB BS	Reader	Newth, D. R , PhD	Prof
Bacteriology			
Thompson, R E M, MB BS	Reader	Cardiology	
Biochemistry		Somerville, W, MD <i>N U.I</i> , MRCP	(†)
Dodds, Sir Charles, MVO, DSc PhD MD, FRCP, FRIC, FRS	Prof.	Chemistry	
Dickens, F., MA <i>Camb.</i> , DIC, DSc PhD, FRIC, FRS	Prof	O'Sullivan, D G , DIC, BSc PhD	Lectr.
		Holt. S. I. BSc PhD. FRIC	Lectr.

Dermatology		Pharmacology	
Bettley, F R, TD, MD, FRCP	(†)	Keele, C A, MD, FRCP	Prof. Reader
		Hobgiger, F, MD <i>Vienna</i> , PhD	
Diseases of Children		Physical Medicine and Rheumatism	
Hart, E W., MBE, MA MD <i>Camb.</i> , DCH	(†)	Boyle, A C., MD, FRCP	(†)
Diseases of Nervous System		Physics	
Kremer, M., MD BSc, FRCP	(†)	Roberts, J. E., DSc, FIP	Prof. Reader
Gilliat, R W., MC, MA DM <i>Oxon</i> , MRCP	(†)	Cook, H. F., BSc PhD, FIP	
Hematology		Physiology	
Stewart, J W., MB BS	Reader	Neil, E, BSc MD	Prof. Reader
Medicine		Green, J H., MA MB BChr <i>Camb.</i> , PhD	
Bedford, D E., MD, FRCP	(†)	Duke, Helen N., MB ChB PhD	
Marnott, H L., CBE, MD, FRCP	(†)	Plastic Surgery	
Willcox, A., MA MD <i>Camb.</i> , FRCP	(†)	Mowlem, R., MB ChB N Z, FRCS	(†)
Hadley, G D., MA MD <i>Camb.</i> , FRCP	(†)	Radiodiagnosis	
Kekwick, A., MA MB BChr <i>Camb.</i> , FRCP	Prof. (†)	Golding, F. C., MB ChM <i>Syd.</i> , DMRE <i>Camb.</i> , FRCP, FFR	(†)
Scadding, F. H., MD, FRCP	(†)	Radiotherapy	
Nabarro, J. D. N., MD	(†)	Windeyer, Sir Brian, MB BS <i>Syd.</i> , DSc Br.Col., DMRE <i>Camb.</i> , MRCP, FRCS, FRCSed, FRACS, FFR	Prof., Dean of Med. Sch
Mental Diseases		Snelling, Margaret D., MB BS, MRCP, FFR, FRCS	(†)
Hobson, J. A., BSc MD, DPM	(†)	Surgery	
Hill, J D N., MB BS DPM, FRCP	Prof.	Riches, Sir Enc, MC, MB MS, FRCS	(†)
Morbid Anatomy		Patey, D H., MB MS, FRCS	(†)
Thackray, A C., MD <i>Camb.</i>	Reader	Handley, R S., OBE, MA MB BChr <i>Camb.</i> , FRCS	(†)
Neuro-surgery		Murray, C J. B., MS, FRCS	(†)
Logue, V., FRCS	(†)	Lloyd-Davies, O V, MS, FRCS	(†)
Obstetrics and Gynaecology		Ferguson, J. H. L., MBE, MA MB BChr <i>Camb.</i> , FRCS	(†)
Roques, F W., CBE, MA MD MChr <i>Camb.</i> , FRCS, FRCOG	(†)	Thoracic Surgery	
Winterton, W R., MA MB BChr <i>Camb.</i> , FRCS	(†)	Sellers, T. H., MA DM MCh <i>Oxon</i> , FRCS	(†)
Jackson, I M., BA MB BChr <i>Camb.</i> , FRCS	(†)	SPECIAL LECTURESHIPS	
Ophthalmology		Medicine	
Goldsmuth, A J B., MB BS, FRCS	(†)	Joules, H., MD, FRCP	(†)
Orthopaedics		Avery Jones, F., MD, FRCP	(†)
Newman, P H., DSO, MC, FRCS	(†)	Asher, R. A. J., MD, FRCP	(†)
Oto-Rhino-Laryngology		Ball, K. P., MD, MRCP	(†)
Wilson, C. P., CVO, FRCS	(†)	Surgery	
Monkhouse, J. P., MB BS, FRCS	(†)	Illyd James, T G., BSc MCh MB, FRCS	(†)
Ranger, D., MB BS, FRCS	(†)	Fergusson, J D., MA MD <i>Camb.</i> , FRCS	(†)
Pathology			
Scarff, R W., CBE, MB BS, FRCS	Prof.		

ADMINISTRATIVE AND OTHER STAFF

Accountant: N. D. Stone. Librarian: Jean Hickling, FLA

GENERAL INFORMATION

The sch. was built as a complete med. sch. for the teaching of anat. and physiol., chem., phys. and biol. in 1835, but teaching in the wards had begun in the earliest days of the hosp.'s existence, nearly 100 yrs before.

The first section of the new pre-med. and pre-clin. sch. was occupied in Jan. 1960. It comprises large teaching labs. and lecture theatres.

The second section will contain professorial rooms, res. labs., dining hall, admin. rooms, etc., and the final phase will be the residential coll. for 175 students which will also contain student amenities.

The theoretical and practical teaching of all the subjects of the med. curriculum, incl. chem., phys. and biol. for the 1st MB exam, is carried out within the sch., which contains the Bland-Sutton Inst. of Pathol., with museum and labs.; Barnato-Joel res. labs. (phys.); S. A. Courtneald Inst. of Biochem.; Ferens Inst. of Otol.; Meyerstein Inst. of Radiotherapy; clin. res. inst.; professorial med. unit and surg. unit.

LIBRARY. The Boldero library (5015 vols.) is open to all students of the sch. and contains the latest med. text-books and the leading med. journals.

ADMISSION. See p. 953 and Appendix III.

ALLIANCE. An exchange scheme exists at consultant and professional level with the med. fac. of the Univ. of Toronto.

STUDY LEAVE. Applicants for study leave are considered individually by the sch. council.

FEES. Entrance, £15.15s., annual tuition fee, £60 p.a., clubs' sub. (compulsory), £7:7s. p.a.

SCHOLARSHIPS AND PRIZES. Numerous scholships and prizes are awarded annually to a total value of over £1000. These incl. 2 entrance scholships to the value of £100 each, 2 scholships value £100 each for Univ. of London students of the med. sch. who have completed studies in anat. and physiol., and 2 open to students of the univs. of Oxford and Camb. who have completed the curriculum for, or passed, the exams in anat. and physiol.

POSTGRADUATE AWARDS open to grads. of other univs. see p. 808.

RESIDENCE. There is limited accomm. for resident students. Surgical dressers live in during their 'emergency week', as do the extern clerks during their course in midwifery.

PUBLICATIONS. *Med. School Prospectus* (annually in mid-Sept.); *The Story of the Middlesex Hosp. Med. School 1835-1935*, by Dr H. C. Thomson (written for sch.'s centenary); *Middlesex Hosp. Journal* (produced by students bi-monthly).

THE YEAR 1960

PRINCIPAL BENEFACTIONS. Lord Astor of Hever, £200,000 for rebuilding fund; Wellcome Foundation, £83,000 for pharm. res. labs.; Nuffield Foundation, £45,000 for Res. Unit in dept. of biol. as applied to med.

DEATHS. Dr R. E. Apperly (hon. cons. anæsth.); Sir Harold Boldero (hon. cons. phys.); Sir Gordon Gordon-Taylor (hon. cons. surg.); Sir Harold Graham Hodgson (hon. cons. radiol.); Dr A. E. W. Idris (hon. cons. anæsth.).

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	324	—
Women	74	—
Total	398	—

Included in the figures above are —

Postgraduate students, 60 (55 m., 5 w.)

New admissions, 84 (71 m., 13 w.)

Students from other countries, 37 (34 m., 3 w.)
(Countries from which largest numbers came: Malaya, 3; Pakistan, 3; Jordan, 3).

DEGREES AWARDED (1959-60). MB BS Lond., 51; PhD Lond., 4; MB BChir Camb., 20; BM BCh Oxon., 8. Total number of first degrees awarded, 79.

OTHER QUALIFICATIONS AWARDED (1959-60). LRCP, MRCS, 20; MRCP, 4; FRCS, 5.

[Information compiled as at 31/7/61]

ROYAL DENTAL HOSPITAL OF LONDON, SCHOOL OF DENTAL SURGERY

Founded 1838

Postal Address · 32 Leicester Square, London, W C.2, England

Telephone · Whitehall 6427

CHAIRMAN OF THE COUNCIL—The Rt Hon VISCOUNTESSE MONCKTON OF BRENCHELY, CBE

DEAN—Professor R B. LUCAS, MD DPH *Edin*, MRCP

SCHOOL SECRETARY—K R MCK BIGGS, BA

APPOINTED AND RECOGNIZED TEACHERS

[† = Part-Time]

Children's Dentistry		Coffin, F R., FRCS, FDSRCS	* (†)
Hovell, J. H., FDSRCS	† Hd. of Dept.	Cook, H P., MDS MB BS, FDSRCS	(†)
James, P M C., DPD <i>St And</i>	Sr. Lectr	Oral Anatomy	
Conservative Dentistry		Blackwood, H J. J., MD BDS <i>Belf</i>	Reader
Pickard, H M., FDSRCS	Reader	Oral Pathology	
Dental Prosthetics		Lucas, R. B., MD DPH <i>Edin</i> , MRCP	Prof
Chuck, A. O., MDS PhD <i>Brist</i>	Prof	Oral Surgery	
Dental Surgery		Fickling, B. W., FRCS, FDSRCS	†
Walker, D G., MA MD BAO	(†)	McCague, J N W., FRCSEd, FDSRCS	† Sr Lectr.
MDentSc <i>Dub</i> , FDSRCS	(†)	Orthodontics	
Hovell, J H., FDSRCS	(†)	Walther, D P.	Prof.
Hardwick, H L., FDSRCS	(†)	Radiology	
Graham, M P., FDSRCS	(†)	Blackman, S., DMRE <i>Camb.</i>	(†)
James, P M C., DPD <i>St And</i>	Sr. Lectr		
McCague, J N W., FRCSEd, FDSRCS	† Sr. Lectr.		

ADMINISTRATIVE AND OTHER STAFF

Asst Dean P M C James, DPD *St And* Hon Librarian · H. M. Pickard, FDSRCS.
Asst School Secretary · Beryl D. Cottell Accountant · E. G Smith

GENERAL INFORMATION

Founded 1838 by Odontological Soc. of London. Opened in Soho Square 1859, after successful appeal to Royal Coll of Surgeons and parliament for establt of exam. for licentiate in dent surg. Moved to Leicester Square in 1874. Present bldg erected 1901. A sch. of the univ. since 1911. Incorporated 1948, pursuant to section 15 of the N.H.S Act (1946), when its parent hosp was designated to St. George's Hosp. group.

CONSTITUTION Governed by a council incl. reps. of univ, Royal Dental Hosp and teaching staff

INCOME (1959-60). Total income: £106,832 (endowments, 0.5 per cent; univ court, 88.5 per cent., fees, 8 per cent; other sources, 3 cent)

LIBRARY Stobie memorial library, 3190 vols.; full reading service.

U.K.—ENGLAND (LONDON)

FACILITIES OF SPECIAL INSTITUTIONS. Pre-clin. students attend courses in anat. and physiol. at St Bartholomew's Hosp. Med. Coll. Clin. students attend courses in general med. and surg. at Charing Cross Hosp. Med. Sch. New dept. of pathol. provides teaching of general pathol. and bacteriol. as well as dental aspects of these subjects.

ADMISSION. See p. 953 and Appendix III. Students are admitted in Oct. to courses leading to the BDS degree of the univ. or LDS dipl. of the Royal Coll. of Surgeons. Candidates must have satisfactory qualifs. in general educn. and pass or gain exemption from the 1st MB or pre-med. exam., except that a limited number of selected students may now be admitted to the 1st MB course at St. Bartholomew's Hosp. Med. Coll. Admission to LDS course now severely restricted.

COURSES. BDS, approx. 4½ yrs after passing 1st MB exam. LDS, approx. 4 yrs after passing pre-med exam.

FEES. BDS degree or LDS dipl.—entrance fee, 10 gs; composition fee (incl. all normal tuition fees, materials, hire of apparatus, etc.), 75 gs. p. a (final instalment for BDS students, £25).

SCHOLARSHIPS. Numerous scholps. and prizes are awarded annually, incl. an entrance scholp. of £100.

STUDENT HEALTH SERVICE. Annual exam. of all students by mass miniature radiog. by arrangement with univ. General student health service by arrangement with St. George's Hosp. Med. Sch. has operated since 1951.

STUDENTS' SOCIETY AND ATHLETIC CLUB. Provide facilities for academic and soc. meetings, debates, etc., and the following sports: athletics, badminton, cricket, fencing, golf, hockey, judo, rugby, sailing, soccer, squash, swimming, tennis.

PUBLICATIONS. *Calendar*; *Royal Dental Hosp. Magazine*.

THE YEAR 1960

PRINCIPAL BENEFACTIONS. W. Warwick James, OBE, £22,000 2½ per cent. consolidated stock for endowment to produce an income of £550 p. a. to further res. in compar. anat.

RETIREMENTS. Dr. F. Dorothy Hawes (anaesth.), Dr. J. E. Garside (dent. metall.), Dr. R. G. Karn (anaesth.).

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time*	Occasional
Men	129	34	27
Women	40	12	1
Total	169	46	28

* BDS students attending pre-clin. courses at other schs. of the univ.

Included in the figures above are—

Postgraduate students, 33.
New admissions, 46 (incl. 39 pre-clin.* and 5 full-time postgrad.)

Students from other countries, 15 (Countries from which largest numbers came: India, 2, S. Africa, 2; Greece, 2)

DEGREES AWARDED (by Univ. of London)
(1959-60) BDS Lond., 11

DIPLOMAS, ETC., AWARDED (1959-60). DOrth RCS, 1, LDSRCS, 33 (incl. 10 students who also graduated BDS).

[Information compiled as at 18/8/61]

ROYAL FREE HOSPITAL SCHOOL OF MEDICINE

Founded 1874

Postal Address: Hunter Street, Brunswick Square, London, W.C. 1, England

Telephone: Terminus 5385

PRESIDENT—Professor MARY F. LUCAS KERNE, DSc MB BS, FRCS

DEAN—KATHARINE G. LLOYD-WILLIAMS, CBE, MD, FFARCS

CHAIRMAN OF THE COUNCIL—SIR FRANCIS W LASCELLES, KCB, MC

HON. TREASURER—SIR DONALD F. ANDERSON, MA Oxon

SECRETARY—STEPHANIE C S. ROBINSON, MA

APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time]

Anaesthetics		Medicine	
Dawkins, C J. M., MA MD <i>Camb.</i> , FFARCS	(†)	Compston, N. D., MA MD, FRCP	(†)
Gilchrist, Edith, MB BS, FFARCS	(†)	Davis, H., MA MB BChir <i>Camb.</i> , FRCP	(†)
Steel, G. C., FFARCS	(†)	Drmsdale, Mrs. Helen E., MA MD <i>Camb.</i> , FRCP	(†)
Willis, J., FFARCS	(†)	Gardner, Frances V., MD, FRCP	(†)
Wynter, T., MD, FFARCS	(†)	Hancock, P. E. T., MB BChir <i>Camb.</i> , FRCP	(†)
		Ledingham, Mrs. Una C., MD, FRCP	(†)
		Lee Lander, F. P., OBE, MD, FRCP	(†)
		Macpherson, Alice M. C., MD, FRCP	(†)
		Sherlock, Sheila P. V., MD <i>Edin.</i> , FRCP	Prof
Anatomy		Mental Diseases	
Bowden, Ruth E. M., MB BS DSc	Prof	Brown, F. W., DM <i>Oxon.</i> , MRCP	(†)
Napier, J.	Reader	Elthorn, A., MA MD <i>Camb.</i> , DPM, MRCP	(†)
Davis, P. R., PhD MB BS	Sr. Lectr.	Hardwick, S. W., MD, MRCP	(†)
MacKinnon, Pamela C. B., PhD MB BS	Lectr.		
Biochemistry		Morbid Anatomy	
Ryman, Brenda E., MA <i>Camb.</i> , PhD <i>Birm.</i>	Reader Lectr.	Beswick, Isabel P., MD	Sr. Lectr.
		Scott, G. B. D., MD	Reader
Biology		Obstetrics and Gynaecology	
Hughes, Mrs. Margaret, BSc PhD	Reader	Barnes, A. Josephine, MA DM <i>Oxon.</i> , MRCP, FRCS, FRCOG	(†)
Chemistry, Inorganic		Howkins, J., MD MS, FRCS, FRCOG	(†)
Sanderson, Phyllis M., DIC, BSc PhD	Sr. Lectr.	Mocatta, Sybil G., MD, FRCS	(†)
Kurzer, F., BSc PhD DSc	Sr. Lectr.	Moore, Jocelyn A. M., MB BS, FRCS, FRCOG	(†)
Chemistry, Organic		Robinson, Kathleen M., MD, FRCS FRCOG	(†)
Lawson, A., BSc PhD <i>Glas.</i> , DSc	Prof.		
Dental Surgery		Ophthalmology	
Downton, D., FDSRCS	(†)	Dollar, Jean M., MS, FRCS	(†)
Dermatology		Hobbs, H. E., MB BS, FRCS	(†)
Calnan, C. D., MA MB BChir <i>Camb.</i> , MRCP	Prof.	Oto-Rhino-Laryngology	
		...	
Haematology		Paediatrics	
Fleming, W. J. D., MB BChir <i>Camb.</i>	Sr. Lectr.	Hart, E. W., MBE, MD <i>Camb.</i> , FRCP	(†)
Infectious Diseases		James, Ursula, MB BS, FRCP	(†)
Gunn, W., MA MB ChB <i>Aberd.</i> , DPH, FRCP	(†)	Moncreiff, Zana E., MA MB ChB <i>Aberd.</i> , MRCP	(†)
Ramsay, A. M., MA MD	(†)	Shelley, Ursula, MD, FRCP	(†)
Laryngology and Otology		Pathology	
Scott-Brown, W. G., CVO, MA MD <i>Camb.</i> , FRCS	(†)	Hill, K. R., BSc MD, MRCP	Prof
Medical Microbiology		Pathology, Chemical	
Crowley, Nuala F. T.	Sr. Lectr.	Baron, D. N., MD	Reader
		Matthews, D. M., PhD MB BS	Lectr.

Pharmacology

Zaimus, Mrs Eleanor J, BSc MD *Athens* Prof
Hodges, J. R., BPharm PhD Sr. Lectr

Radiology

Davis, S., MB BS, MRCP, FFR (†)
Madden, E. B. P., LRCP, MRCS, DMRE (†)

Physical Medicine and Rheumatology

Richardson, A. T., MB BS, MRCP (†)

Radiotherapy

Wade, Phyllis, MB BS (†)

Physics

Simons, H. A. B., MA *Camb.*, PhD Reader

Surgery

Gray, C. H., BSc MB ChB *Mane.*, FRCS (†)
Hindenach, J. C. R., MD *N Z.*, FRCS (†)
Hopewell, J. P., MB BS, FRCS
Johnson, H. D., MA MB BCh *Camb.*, FRCS (†)
MacLeod, A. C., MB BS, FRCS (†)
Qvist, G., MB BS, FRCS (†)
Radley Smith, E. J., MS, FRCS (†)
Rees, H., MA MCh *Oxon.*, FRCS (†)
Emlyn Williams, A., BSc MB BCh *Wales*, FRCS (†)

Physiology

Downman, C. B. B., BSc PhD
Sophia Jex-Blake Prof
Coleridge, J., BSc MB ChB *Leeds* Reader
Scott, Mrs Patricia P., BSc PhD Sr Lectr
Moore, R. E., PhD MB BS Lectr

ADMINISTRATIVE AND OTHER STAFF

Registrar Pauline McCormick, BA Accountant; Winifred Webb. Asst Sec. Mrs. Gladys Barnes, BA Librarian Patricia Fear House Steward Carmen Norfolk

GENERAL INFORMATION

Founded 1874 Incorporated as a sch of the univ. in 1900. Royal charter granted 1938.

LIBRARIES AND MUSEUMS. Main library (10,000 vols.) in sch bldgs. Small libraries in depts. and in all hosps. New anat museum in main sch, pathol. at Gray's Inn Rd.

ADMISSION. See p. 953 and Appendix III.

COURSES Entry is restricted to students over the age of 18 to read for univ. degrees. Complete courses of study for med. exams of the univ., incl. 1st MB. Courses in anat. and physiol. in fac. of sci. Facilities in clin. and pre-clin. depts. for postgrad. and res. students, incl. MSc course in radiation biol. and radiation phys. Pre-clin. teaching is given in the main sch. bldgs., clin. teaching in the Royal Free Hosp. teaching group (over 900 beds), comprising the parent hosp. in Gray's Inn Rd., W C 1, and its annexes at Lawn Rd., Hampstead, and Liverpool Rd., N 1, the Elizabeth Garrett Anderson and Hampstead General Hosps.

FEES. Entrance fee, £5. Annual composition fee (incl. students' union sub.) undergrad., £65, postgrad., £40, MSc course in radiation biol. and radiation phys., 90 gs.

SCHOLARSHIPS Entrance scholps. and undergrad. awards to total value of £2000 offered annually, and postgrad. scholps. to total value of £2500, incl. Annie McCall fellowship in midwifery, value £1500. See also p. 808.

STUDENT HEALTH SERVICE. Full med. exam every 2nd yr. Physician-in-charge holds weekly clinics.

ATHLETIC FACILITIES The sch.'s athletic ground is at Myddelton House, Enfield. Pitches for rugby and assocn. football, hockey, lacrosse, net-ball, cricket and tennis. Club-house and gardens adjoining.

PUBLICATIONS. *Annual Prospectus*, *Annual Report*, *Royal Free Hosp. Journal* (quarterly).

THE YEAR 1960

RETIREMENTS Doris M. Baker (med.); Geraldine Barry (surg.); Sir Daniel Davies (med.); Muriel E. Landau (obstet. & gynaecol.).

RESIGNATIONS Joan I. Beale (secretary), apptd. to post at Bristol; Dr Helen N. Duke (physiol.), apptd. sr. lectr. at Middx. Med. Sch.; E. O'F. Walsh (biochem.), apptd. to chair at Hong Kong.

DEATHS Esther M. Killick (Sophia Jex-Blake prof. of physiol.)

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	67	2
Women	362	2
Total	429	4

Distribution by Faculties Med., 415, sci., 18.
Total 433.

<i>Included in the figures above are —</i>	BSc (spec) (anat), 2; (physiol), 2	PhD (all
Postgraduate students, 28.	fac) : 4	Total number of first degrees awarded,
New admissions, 94	81	
Students from other countries, 54	(Countries	DIPLOMAS AWARDED (1959-60)
from which largest numbers came	India, 8,	LRCP,
Malaya, 7, Nigeria, 5)		MRCs, 61; FRCS, 1; FFRCS, 1; FRCOG,
DEGREES AWARDED (by Univ of London)		2, MRCP, 2, MRCCOG, 2, DA, 5; DCH, 10,
(1959-60). Med · MB BS, 77, MD, 2	DMRD, 1; DMRT, 1, DPM, 3, DPH, 2,	
Sci ·	DACOG, 12, DTM&H, 1	

[Information compiled as at 18/8/61]

ST. BARTHOLOMEW'S HOSPITAL MEDICAL COLLEGE

Founded 1662

Postal Address: West Smithfield, London, E.C. 1, England

Telephones: Monarch 7404

PRESIDENT—M W PERRIN, CBE
VICE-PRESIDENT—C F. HARRIS, MD, FRCP
DEAN—D F ELLISON NASH, FRCS
SUB-DEAN—H W BALME, MA MD, MRCP
SECRETARY—C. E. MORRIS, FCA

APPOINTED AND RECOGNIZED TEACHERS

Anæsthetics		Dermatology	
Evans, F. T., MB BS, FFRCS		MacKenna, R. M. B., MD Camb., FRCP	
Ellis, G. H., FFRCS			
Bowen, R. A., MB BS, FFRCS		Medicine	
Ballantyne, R. I. W., FFRCS		Black, K. O., MD Camb., FRCP	
Anatomy		Cullinan, E. R., MD, FRCP	
Cave, A. J. E., MD DSc Manc., FRCS,		Gibb, W. E., DM Oxon., FRCP	
FLS	Prof	Hayward, G. W., MD, FRCP	
Lewis, O. J., MD Melb	Reader	Oswald, N. C., MD Camb., FRCP	
Bacteriology		Scott, R. Bodley, DM Oxon., FRCP	
Shooter, R. A., MD Camb	Prof	Scowen, E. F., MD, FRCP	Prof
Biochemistry		Spence, A. W., MD Camb., FRCP	
Wormall, A., DSc Leeds, FRs, FRIC	Prof.	Spencer, A. G., MD Lond., MRCP	Reader
Francis, G. E. C., PhD Lond., FRIC	Reader	Turner, J. W. A., DM Oxon., FRCP	
Wills, E. D., MA Camb., MSc PhD		Obstetrics and Gynæcology	
Hawkins, J. D., MA Camb., PhD Lond.		Beattie, W. J. H. M., MD Camb., FRCS,	
Children's Diseases		FCOG	
Harris, C. F., MD, FRCP		Fraser, D. B., BM BCh Oxon., FRCS	
Franklin, A. W., MA MB BChir Camb., FRCP		Howkins, J., MD MS, FRCS, FRCOG	
Dental Surgery		Ophthalmology	
Hankey, G. T., OBE, TD, FDSRCS		Stallard, H. B., MBE, TD, MD Camb.,	
		Hon. LLD St.And., FRCS	

U.K.—ENGLAND (LONDON)

Orthopaedics		Psychiatry	
Burrows, H. J., MA MD <i>Camb</i> , FRCS			
FRACS			
Coltart, W. D., MB BS, FRCS		Radiology	
Oto-Rhino-Laryngology		Harper, R. A. K., MD <i>Edin</i> , FFR,	
Capps, F. C. W., FRCS		FRCPEd, FRFPsGlas	
Hogg, J. C., MB BChir <i>Camb</i> , FRCS		Simon, G., MD DMRE <i>Camb</i> , FFR	
		Williams, I. G., DMRE <i>Camb</i> , MB BS,	
		FRCS, FFR	
Pathology		Surgery	
Blacklock, J. W. S., MD <i>Glas</i> , FRFPsGlas		Badenoch, A. W., MA MD ChM <i>Aberd.</i> ,	
	Prof	FRCS	
Lehmann, H., MD <i>Basle</i> , PhD <i>Camb</i> ,		Catchpole, B. N., MD ChM <i>Manc</i> ,	
FRIC		MD <i>Adel</i> , FRCS	Reader
Stansfeld, A. G., MD BChir <i>Camb</i>		Hill, I. M., MS, FRCS	
Brewer, H. F., MD <i>Camb</i>		Hunt, A. H., DM MCh <i>Oxon</i> , FRCS	
Anderson, A. B., PhD, FRIC		Nash, D. F. E., FRCS	
Pharmacology		Naunton Morgan, C., MB BS, FRCS	
Quilliam, J. P., MSc MB BS <i>Lond</i>	Prof	O'Connell, J. E. A., MS, FRCS	
		Taylor, G. W., MB BS, FRCS	Prof.
Physics		Tubbs, O. S., MB BChir <i>Camb</i> , FRCS	
Rotblat, J., DSc <i>Warsaw</i>	Prof.	Tuckwell, E. G., MCh <i>Oxon</i> , FRCS	
Banks, T. E., PhD <i>Bum</i> , FIP	Sr. Lectr	Venereal Diseases	
Physiology		Nicol, C. S., MD	
Daly, M. de B., MA MB BChir <i>Camb</i>	Prof	Zoology and Comparative Anatomy	
McDonald, D. A., MB BCh <i>Oxon</i> ,	Reader	Lacy, D., MA <i>Oxon</i> , PhD <i>Lond</i> .	
Aumonier, F. J., MSc		Reader	

ADMINISTRATIVE AND OTHER STAFF

Warden. G. Ellis, FFARCS. Medical Officer. J. H. Coulson, DCH. Librarian. J. L. Thornton

GENERAL INFORMATION

St. Bartholomew's Hosp was founded in 1123 by the monk Rahere, who subsequently founded the priory of St Bartholomew's. The med coll was founded in 1662.

The coll. forms part of the Univ of London and carries out its clin teaching in St. Bartholomew's Hosp in the city of London. Non-members of the univ may be admitted to classes but each case is considered separately. Grads of the univs of Oxford and Camb. may undertake their clin trg in the coll.

LIBRARY AND MUSEUM Approx. 23,000 vols in 2 libraries (one in pre-clin sch, the other in clin sch) which contain all the standard works on med, surg, and the allied scis., med. and other scientific periodicals, with a valuable collection of works on religion, hist. and general lit. The museum contains a complete series of pathol. specimens in addition to extensive series of casts and drawings and large collections of specimens illustrating general and compar. anat., physiol., zool. and morphol.

ADMISSION See p 953 and Appendix III.

COURSES Full course in the fac of med. for MB BS, 5½ yrs. Postgrad courses are run for DMR students and the final fellowship exam of the Royal Coll of Surgeons.

FEES. Annual tuition fee, £65. Union sub. (compulsory): 7 gs p a.

SCHOLARSHIPS. Total annual sum of the value of over £2000 available for scholps; entrance scholps in arts and sci., value £40 p a. for 3 yrs.; Jeaffreson exhibition, value £40 p a. for 3 yrs.; 4 scholps. for res. (in med, surg and pathol) are open to grads of any univ studying at St Bartholomew's Hosp. See also p. 808.

STUDENT RESIDENCE Residence in College Hall (accommodates for 80 men and 20 women) is restricted to internal students of the coll. who are undertaking their clin studies.

STUDENTS' HEALTH SERVICE. There is a whole-time med officer. Incl. in the service are the various protective measures against infectious dis.

ST. BARTHOLOMEW'S HOSPITAL MEDICAL COLLEGE 1057

STUDENTS' UNION. All full-time students become life members of the students' union on payment of the appropriate fee. Full-time students are eligible to join all clubs and each

student receives a free copy of the *Journal* monthly

PUBLICATION. *Handbook* (annual).

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	520	60
Women	130	6
Total	650	66

Included in the figures above are —
Postgraduate students, 80 (24 full-time).

Dental students, 53 (43 full-time)
New admissions, 121
Students from other countries, 60 (Country from which largest number came. Hungary, 8)

DEGREES AWARDED (1959-60) MB BS Lond, 63, MB BChir Camb., 23; BM BCh Oxon, 7.

OTHER QUALIFICATIONS (1959-60) MRCS, LRCP, 32, LMSSA, 6.

[Information compiled as at 18/8/61]

ST. GEORGE'S HOSPITAL MEDICAL SCHOOL

Founded soon after 1734

Postal Address: Hyde Park Corner, London, S.W. 1, England

Telephone BELGRAVIA 1716

CHAIRMAN OF THE MEDICAL SCHOOL COUNCIL—The Rt Hon SIR GERALD UPHORN, CBE, MA Camb.

DEAN—M. I. A. HUNTER, MD Camb., FRCP

VICE-DEAN—A. H. CHARLES, TD, MB BChir Camb, FRCS, FRCOG

HON. LIBRARIAN—G. EDWARDS, FFARCS

SECRETARY—C. R. CUTHBERT

APPOINTED AND RECOGNIZED TEACHERS

Anæsthetics

Edwards, G., FFARCS	Sr. Lectr.
Johnson, E. F., MB BS, FFARCS	Sr. Lectr.
Landau, E., FFARCS	Sr. Lectr.
Headley, S. R. T., MB BS, FFARCS	Sr. Lectr.

Cameron, C. B., MD N.Z.	Sr. Lectr.
Perkins, D. J., MSc PhD, FRIC	Sr. Lectr.

Dental Surgery

Fickling, B. W., FRCS, FDSRCS	Sr. Lectr.
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Bacteriology

Elek, S. D., PhD MD DSc DCP DPH	Prof Reader
Hilson, G. R. F., MD BS	Sr. Lectr.
Stern, H., PhD MB ChB Glas.	Sr. Lectr.

Dermatology

Gordon, H. W., MC, BA MB BChir Camb., FRCP	Sr. Lectr.
Gold, S. C., MD Camb.	Sr. Lectr.

Cardiology

Hunter, M. I. A., MD Camb., FRCP	Sr. Lectr.
Lentham, A. G., MB BChir Camb., FRCP	Sr. Lectr.

Forensic Medicine

Teare, R. D., MD Camb, MRCP	Sr. Lectr.
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Chemical Pathology

Martin, N. H., BSc Durh., MA BM BCh Oxon., FRIC	Prof.
2 M	

Genito-Urinary Surgery

Nicholls, M. F., CBE, MA MChir Camb, FRCS	Sr. Lectr.
Anderson, H. F., MB BChir Camb., FRCS	Sr. Lectr.

U.K.—ENGLAND (LONDON)

Hæmatology		Young, R. H., MB BChir <i>Camb</i> , FRCS	
Stafford, J. L., MB ChB <i>Barn</i>	Sr. Lectr.	Oto-Rhino-Laryngology	
Infectious Diseases		Peacock, J. R., MB BChir <i>Camb</i> , FRCS	
McEntee, J. C., MA MD <i>Dub</i> , MRCP	Sr. Lectr.	Pereira, A. L., MB BS, FRCS	
Medicine		Pædiatrics	
Dornhorst, A. C., MD, FRCP	Prof.	Pinckney, C. P., MA MB BChir <i>Camb</i> , FRCP	
Dow, J. F., BA MB BChir <i>Camb.</i> , FRCP	Sr. Lectr.	Kesson, C. W., MD BS	
Hunter, M. I. A., MD <i>Camb</i> , FRCP	Sr. Lectr.	Pathology	
Leatham, A. G., MB BChir <i>Camb</i> , FRCP	Sr. Lectr.	Crawford, T., BSc MD <i>Glas.</i> , FRFPGlas	
Robson, K., MA MD <i>Camb</i> , FRCP	Sr. Lectr.	Dexter, D., MD <i>Sheff</i>	
Nassim, J. R., MA BM BCh <i>Oxon.</i> , FRCP	Sr. Lectr.	Physical Medicine	
Mental Diseases (Psychiatry)		Shields, D. C., BM BCh <i>Oxon.</i>	
Curran, D., MB BChir <i>Camb</i> , DPM, FRCP	Sr. Lectr.	Plastic Surgery	
Mallinson, Sir Paul, MA BM BCh <i>Oxon.</i>	Sr. Lectr.	Blake, H. E., MA MB BChir <i>Camb</i> , FRCS	
Miller, E., MA DPM <i>Camb.</i> , FRCP	Sr. Lectr.	Proctology	
Partridge, M., MA DM BCh <i>Oxon</i> , DPM, MRCP	Sr. Lectr.	Marnham, Sir Ralph, KCVO, MA MChir <i>Camb</i> , FRCS	
Neurology		Radiology	
Williams, D. J., CBE, DSc MD <i>Manc</i> , FRCP	Sr. Lectr.	Allen, E. H., DMRE <i>Camb</i>	
Paterson, J. H., MD BS, FRCP	Sr. Lectr.	Bull, J. W. D., MA MD <i>Camb</i> , DMR, FRCP, FFR	
Neuro-Surgery		Radiotherapy	
McKissock, W., OBE, MB MS, FRCS	Sr. Lectr.	Richmond, J. J., MB BS <i>Melb.</i> , DMRT, FRCS	
Obstetrics and Gynæcology		Surgery	
Gwillm, C. M., MD DPH, FRCP, FRCS, FRCOG	Sr. Lectr.	Marnham, Sir Ralph, KCVO, MA MChir <i>Camb.</i> , FRCS	
Charles, A. H., TD, MA MB BChir <i>Camb.</i> , FRCS, FRCOG	Sr. Lectr.	Nicholls, M. F., CBE, MA MChir <i>Camb.</i> , FRCS	
Ophthalmology		Riddell, V. H., MA MD <i>Camb.</i> , FRCS	
Duke-Elder, Sir Stewart, KCVO, MA MD DSc <i>St. And.</i> , PhD, FRCS, FRS	Sr. Lectr.	Siddons, A. H. M., BA MChir <i>Camb</i> , FRCS	
Bridgeman, Hon G. J. O., MB BChir <i>Camb</i> , FRCS	Sr. Lectr.	Smith, E. R., MS, FRCS	
Miller, S. J. H., MD <i>Aberd.</i> , FRCS	Sr. Lectr.	Anderson, H. F., MB BChir <i>Camb</i> , FRCS	
Orthopædics			
Burns, B. H., MB BChir <i>Camb.</i> , FRCS	Sr. Lectr.		

ADMINISTRATIVE AND OTHER STAFF

Dean's Sec. · Maureen Rattue Accountant W. H. Martin.
Asst Librarian Major L. Carr, MBE.

GENERAL INFORMATION

St. George's Hosp. was opened in 1734 and the physicians and surgeons were permitted to have a limited number of pupils from its inception. The

sch has been unchanged since 1868 until the present rebuilding scheme was begun. Since 1906 the teaching in the sch has been devoted entirely

to the clin. subj's, although recently univ units in med and surg have been set up and a prof has been apptd to a chair of med. By arrangement, students entering for the full course do the pre-clin work at King's Coll, London, but clin students are also accepted from the univs of Cambridge and Oxford. The numbers entering are deliberately kept small, and, in spite of recent increases, it has been possible to maintain the old tradition of individual teaching.

LIBRARY, MUSEUM, ETC. The sch library (5848 vols) contains text-books and journals dealing with all branches of clin study. The pathol. dept. contains labs of morbid anat., bacteriol., hæmatol. and chem pathol.

ADMISSION See p. 953 and Appendix III

RESEARCH Qualified students wishing to undertake res are encouraged to do so. Small annual grants from endowments are available for the purpose.

FEES Annual composition fee (incl. union membership), £67. 7s

SCHOLARSHIPS Six entrance schols of the total value of £800 are offered for competition annually. The subjects of exam are either anat and physiol. or pathol. Prizes of the total value of £260 are also offered for competition each year.

PUBLICATIONS *Prospectus*, *Gazette*.

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1959-60

	Full-Time	Part-Time
Men	123	22
Women	19	2
Total	142	24

Included in the figures above are —

Postgraduate students, 48 (43 m., 5 w) (15 m. and 3 w full-time)

New admissions, 39 (35 m., 4 w)

Students from other countries, 19 (Country from which largest number came Nigeria, 5)

DEGREES AWARDED (1959-60) MB BS Lond., 30, MB BChir Camb., 10, MB Durh., 1.

[Information compiled as at 18/8/61]

ST. MARY'S HOSPITAL MEDICAL SCHOOL

Founded 1854

Postal Address: Norfolk Place, Paddington, London, W.2, England

Cables and Telegrams: St. Mary's Hospital Medical School, London, W.2

Telephone: Paddington 3612

ACTING PRESIDENT—THE LORD COHEN

DEAN—G. B. MITCHELL-HEGGS, OBE, TD, MD, FRCP

SECRETARY—J. E. STEVENSON, LLB

APPOINTED AND RECOGNIZED TEACHERS

[† = Part-Time]

Anæsthetics

Morris, L. H., BA, FFARCS
Lloyd Owen, M. W., TD, MB BChir Camb
Thornton, H. L., FFARCS

Breathnach, A. S., MSc MB BCh
†(C)* BAO NUI
†(C) Menzies, A. G. H., MD BCh PhD
†(C) Gamble, H. J.

Sr. Lectr.

Sr. Lectr.

Lectr.

Anatomy

Goldby, F., MA MD Camb.
Bellairs, A. d'A., MA MSc

Bacteriology
Williams, R. E. O., BSc MD, MRCP
Prof. Hughes, W. H., MD
Reader Hummelweit, H., MD Berl., PhD

Prof.

Reader

Lectr.

* (C) = Clinical Teacher

U.K.—ENGLAND (LONDON)

Biochemistry		Oto-Rhino-Laryngology	
Williams, R. T., DSc <i>Burm.</i> , PhD <i>Wales</i>	Prof.	Simpson, J. F., FRCS	†(C)
Parke, D. V., BSc PhD, FRIC	Sr. Lectr.	Robin, I. G., MA MB BChir <i>Camb.</i> , FRCS	†(C)
Smith, J. N., BSc PhD, FRIC	Lectr.	Pædiatrics	
Robinson, D., BSc PhD, FRIC	Lectr.	Lightwood, R. C., MD, FRCP	†Dir
Biology		Pathology and Morbid Anatomy	
Foster, C. L., MSc PhD	Reader	Pryce, D. M., MD	Prof.
Fisk, A., MSc	Lectr.	Wright, E. A., MD	Reader
Cameron, E., PhD DSc	Lectr.	Porter, K. A., MD DSc	Sr. Lectr.
Dermatology		Neumark, E., MD	Lectr.
Mitchell-Heggs, G. B., OBE, TD, MD, FRCP	†(C)*	Pathology, Chemical	
Feiweil, M., MB BChir <i>Camb.</i> , MRCP	†(C)	Neuberger, A., MD PhD, FRS	Prof.
Immunology		Pharmacology	
Porter, R. R., BSc PhD	Prof.	Stewart, H. C., MD <i>Camb.</i> , PhD	Reader
Cohen, S., MD PhD	Reader	Nasmyth, P. A., BPharm <i>Wales</i> , PhD	Lectr.
Medicine		Andrews, W. H. H., MA DM <i>Oxon.</i> , DTM&H <i>Liv</i>	Lectr.
Hunt, T. C., BA DM <i>Oxon.</i> , FRCP	†(C)	Physics	
Brooks, W. D. W., MA DM <i>Oxon.</i> , FRCP	†(C)	Rowlands, S., PhD <i>Liv</i>	Reader
Litchfield, J. W., BA BM BCh <i>Oxon.</i> , FRCP	†(C)	Physiology	
Kemp, T. A., MA MD BChir <i>Camb.</i> , FRCP	†(C)	Huggett, A. St. G. J. McC., DSc PhD MB BS, FRS	Prof.
Young, C. A., MD, FRCP	†(C)	Creese, R., MB BS PhD	Reader
Peart, W. S., MD, FRCP	Prof.	Holton, Mrs. F., BA <i>Camb.</i> , DPhil <i>Oxon.</i>	Sr. Lectr.
Ackroyd, J. F., DSc MB ChB <i>Brist.</i>	Sr. Lectr.	Nixon, D. A., MSc PhD	Lectr.
Sanderson, P. H., BA MB <i>Camb.</i>	Sr. Lectr.	Radiology (Diagnostic)	
Mental Diseases		Williams, E. R., DMRE <i>Camb.</i> , MD, FRCP, FFR	†Dir
Pearce, J. D. W., MA MD <i>Edm.</i> , FRCPEd	†(C)	Sutton, D., MD <i>Mane.</i>	Asst. Dir.
Metabolic Unit		Radiotherapy	
Wynn, V., MD <i>Melb.</i>	Reader	Hulbert, M. H. E., DMRE <i>Camb.</i> , MB BS	
Neurology		Surgery	
Brinton, D. H., DM <i>Oxon.</i> , FRCP	†(C)	Irvine, W. T., BSc MD ChM <i>Glas.</i> , FRCSEd, FRCS	Prof.
Edwards, C. H., FRCP	†(C)	Wright, A. D., MB MS DTM&H, FRCS	†(C)
Obstetrics and Gynæcology		Porritt, Sir Arthur, KCMG, KCVO, CBE, MA BM MCh <i>Oxon.</i> , FRCS	†(C)
MacGillivray, I., MD, FRCOG	Prof.	Eastcott, H. H. G., MS <i>Lond.</i> , FRCS	†(C)
MacLeod, D. H., MB MS, FRCP, FRCS, FRCOG	†(C)	Thoracic Surgery	
Ophthalmology		Bromley, L. L., MA MChir <i>Camb.</i> , FRCS	†(C)
Cross, A. G., MA MD <i>Camb.</i> , FRCS	†(C)	Venereal Diseases	
Ligh, A. G., MD <i>Liv.</i> , FRCS	†(C)	Jefferiss, F. J. G.	†(C)
Orthopædics		Willcox, R. R., MD BS	†(C)
Adams, J. C., MD, FRCS	†(C)		
Bonney, G. L. W., MS	†(C)		

ADMINISTRATIVE AND OTHER STAFF

Accountant . E. J. Morris, FCA	Asst Secretary . Mary D. Scott, MBE.	Librarian . Miss W. M. Gallagher, BA, FLA	Student Health .	Service Physicians . T. A. Kemp, MA MD BChir <i>Camb.</i> , FRCP ; H. D. Cockburn, MC.
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* (C) = Clinical Teacher

GENERAL INFORMATION

Founded 1854. A sch. of the univ. in the fac. of med. and incorporated under the National Health Service Act, 1946

LIBRARY Over 5000 text-books and bound journals.

WRIGHT-FLEMING INSTITUTE OF MICROBIOLOGY consists of depts. of bacteriol. and immunol., and units dealing with virol, allergy and other specialized fields, it also houses a Medical Res. Council unit of hammatol.

ADMISSION. See p 953 and Appendix III

COURSE OF STUDY Entry is restricted to students reading for univ. degrees, though students may take the conjoint exams in addn. if they wish. The med. sch. provides complete courses of study for the med. exams of the univ. Students from other univs. who have completed their exams in anat. and physiol. are admitted to complete the clin. part of the course leading to a degree of their own univ.

CLINICAL UNITS There are clin. units in med., surg. and paediatrics, the personnel of which wholly devote themselves to teaching and res. and assist students wishing to carry out original work.

STUDY LEAVE Applicants for study leave are considered individually.

FEES Annual composition fee (incl. union membership), £69

SCHOLARSHIPS Entrance. 1 of £100 p.a.; 5, each of £40 p.a. for 5 or 6 yrs., univ., for clin. students. 1 of £100 p.a., 2 of £50 p.a. and 1 of £40 p.a. (all tenable for 3 yrs.). All these scholps. are eligible for supplementation by the Ministry of Educn. (applicn. to be made in Jan.). Res. fellowships and many other prizes and scholps. are available. For postgrad. awards, see p 808.

PUBLICATIONS *Prospectus* (annual), *St. Mary's Hosp. Gazette*; *History of St. Mary's Hosp. Med. Sch.*, by Sir Zachary Cope (Heinemann, London, 1954)

THE YEAR 1960

PRINCIPAL BENEFACTIONS Wellcome Trust, £60,000; National Sci. Foundation, U.S.A., \$100,000 over 5 yrs.; dept. of health, educn. & welfare, U.S.A., \$88,100 over 5 yrs.

NEW DEPARTMENTS AND CHAIRS. Dept. and chair of immunol., dept. of hammatol.

RESIGNATIONS R. H. Heptinstall (morb. anat.), apptd. visiting prof. in pathol., Wash., T. Stapleton (paed.), apptd. to chair of child health, Syd.

DEATHS The Earl of Verulam (pres. of med. sch.)

Distribution by Faculties. *Med.*, 433; *sci.*, 10. Total 443

Included in the figures above are:—

Postgraduate students, 20

New admissions, 102.

Students from other countries, 31. (Countries from which largest numbers came: Nigeria, 7, Ceylon, 6)

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	342	—
Women	101	—
Total	443	—

DEGREES AWARDED (1959-60). MB BS Lond., 45; MB BCh Camb., 13; BM BCh Oxon., 10.

DIPLOMAS, ETC., AWARDED (1959-60). MRCS, LRCP, 33; LMSSA, 1; DMRD, 2.

[Information compiled as at 16/8/61]

ST. THOMAS'S HOSPITAL MEDICAL SCHOOL

Founded in the 13th century

Postal Address . Albert Embankment, London, S.E 1, England*Cables and Telegrams* St Thomas's Hospital Medical School, London, S.E 1*Telephone* Waterloo 5656, exts 23 and 356

DEAN—R. W. NEVIN, TD, MA MB BChir Camb, FRCS

SUB-DEAN—Professor D. V. DAVIES, MA Camb, MB BS

MEDICAL SECRETARY—A. L. CROCKFORD, CBE, DSO, MC, TD, MA MB BChir Camb.

APPOINTED AND RECOGNIZED TEACHERS

[† = Part-Time]

Anæsthetics

Bourne, J. G., MA MD Camb., FFARCS

Wylie, W. D., MA MB BChir Camb, FFARCS

Nosworthy, M. D., MA MD Camb, FFARCS

Wright, R. B., MA MB BChir Camb., FFARCS

Anatomy

Davies, D. V., MA Camb., MB BS

Barnett, C. H., MB BChir Camb., FRCS

Hewitt, W., MB BS

Prof

Reader

Sr Lectr

Bacteriology

Hare, R., MD

Prof.

Biochemistry

Young, Leslie, DSc PhD, FRIC

Thorn, M. B., PhD BSc

Prof

Lectr

Biology

Hamilton, A. G., BAgr DSc Belf, PhD

Sr. Lectr

Digby, P. S. B., BA

Lectr

Cardiology

Jones, E., MD, FRCP

Daley, R., MD Camb., FRCP

Children's Diseases

Wilson, B. D. R., MB BS, FRCP

Dental Surgery

Hovell, J. H., FDSRCS

Dermatology

Wallace, H. J., MA MD Camb., FRCP

Medicine

Goadby, H. K., MA MD Camb., FRCP

Jones, E., MD, FRCP

Richardson, Sir John S., MVO, MA MD Camb., FRCP

Harman, J. B., MA MD Camb., FRCP,

FRCS

Anderson, H. J., MB BChir Camb, FRCP

Sharpey-Schafer, E. P., MB BChir Camb, FRCP

Creamer, B., MD, MRCP

Naylor, P. F. D., MA MD Camb.

Prof

Neurology

Elkington, J. St. C., MA MD Camb., FRCP

Kelly, R. E., MD, FRCP

Neuro-Surgery

Jackson, H., FRCS

Obstetrics and Gynæcology

Wrigley, A. J., MD, FRCS, FRCOG

Rickford, R. B. K., MD, FRCS, FRCOG

Garland, G. W., MD, FRCOG

Rhodes, P., MA MB BChir Camb, FRCS

Ophthalmology

Rudley, N. H. L., MA MD Camb., FRCS

Orthopædic Surgery

Furlong, R. J., MB BS, FRCS

Oto-Rhino-Laryngology

Mill, W. A., MS, FRCS

Bateman, G. H., MA BM BCh Oxon., FRCS

Pathology

Curran, R. C., MD *Glas*, MRCP Prof
 Spencer, H., MD PhD DTM&H, FRCS Reader
 John, R. W. Sr Lectr

Pathology, Chemical

Griffiths, W. J., BSc PhD
 Prunty, F. T. G., MA MD *Camb*, FRCP Prof
 McSwiney, R. R., MB BS Sr Lectr

Pathology, Clinical

Pinniger, J. L., MA DM *Oxon*, FRCP
 Sr Lectr., Dir
 Wetherley-Mein, G., MB BCh *Camb*,
 Sr Lectr., Asst Dir
 Hutt, M. S. R., MD, MRCP Sr Lectr

Pharmacology and Therapeutics

Stacey, R. S., MA MD *Camb* Prof

Physics

Cochrane, W., MA BSc PhD *Glas* Sr Lectr
 Nightingale, A., MA PhD †Lectr.

Physiology

Barcroft, H., MA MD *Camb*, FRCP, FRS Prof.
 Vass, C. C. N., MSc PhD MB ChB *Leeds*
 Reader
 Young, I. Maureen, MSc PhD Res Sr Lectr.
 Cobbold, A. F., BSc PhD Sr Lectr.
 Allwood, M. J., MB BS PhD Lectr

Plastic Surgery

Battle, R. J. V., MBE, MA MCh *Camb*
 FRCS

Psychiatry

Sargant, W. W., MA MB BCh *Camb*,
 FRCP

Radiodiagnosis

McLaren, J. W., DMRE *Camb*, MA, FFR,
 MRCP
 Pierce, J. W., MD, MRCP

Radiotherapy

Fleming, J. A. C., MB ChB DR *Edin*,
 FRCSEd, FFR

Surgery

Barrett, N. R., MA MCh *Camb*, FRCS
 Mumpress, T. W., MB MS, FRCS
 Nevill, R. W., TD, MA MB BCh *Camb*,
 FRCS Dean
 Kinmonth, J. B., MS, FRCS Prof
 Pullan, J. M., MCh *Camb*, FRCS
 Cockett, F. B., MS, FRCS †Sr. Lectr
 Lockhart-Mummery, H. E., MD
 MCh *Camb*, FRCS

Thoracic Disease

Barrett, N. R., MA MCh *Camb*, FRCS
 Anderson, H. J., MB BCh *Camb*, FRCP
 Harrison, G. K., MA *Camb*, MD *Tor*, FRCS

Venerereal Diseases

Nicol, C. S., MD, MRCP

ADMINISTRATIVE AND OTHER STAFF

Librarian F. A. Tubbs.

GENERAL INFORMATION

The sch. was founded in the 13th cent and is now an incorporated sch. of the Univ. of London. The governing body of the sch. is the sch. council and there is also an advisory academic bd. The pre-med. and pre-clin. depts. are well equipped, and there are full professional units in med. and surg. The hosp. has over 700 beds available for teaching.

St Thomas's Hosp. and Med. Sch. occupy an extensive site on the south bank of the river Thames, opposite the Houses of Parliament.

LIBRARY Nearly 19,000 med. books and pamphlets. There is an extensive pathological MUSEUM.

ADMISSION. Students entering the pre-med. period must have fulfilled the univ. entrance reqs. (see p. 953 and Appx. III) and those entering pre-clin. period must have passed 1st MB exam or achieved exemption from it.

COURSES Full instruction for the whole course for MB BS Lond. (5½ yrs.). Students for this degree join the pre-med. or pre-clin. periods in Oct., but those from Oxford or Camb., who wish to do their clin. work in London for their own univ. degrees, may join in April or Oct. A final FRCS course is held twice a yr., starting in March and Sept. and lasting 8 weeks. Women students are accepted up to 15 per cent. of the annual entry.

STUDY LEAVE There is no regular practice for study leave for the staff.

FEES Tuition, £60 p.a.; club sub., £6.6s p.a.

SCHOLARSHIPS Entrance scholarships into the pre-clin. period include 2 open scholarships in nat. sci., value £60 and £40 p.a. for 5 yrs., and 2 Home Counties scholarships in nat. sci., value £50 and £40 p.a. for 5 yrs. For entry into the clin. period there are 2 univ. schols., value £50 and £40 for 3 yrs. There are many internal schols. and

prizes open for award Res. facilities and scholps. are available for postgrads, 2 scholps may be awarded annually to enable selected students to take a BSc honrs degree in physiol or anat. before proceeding to clin period For postgrad awards, see p. 808.

STUDENTS' HOSTEL St. Thomas's House, Lambeth Palace Rd., London, S.E.1 (tel Waterloo 4625) At present there are 34 single rooms available for men only; room and breakfast, £3 per week

STUDENT HEALTH SERVICE. Every student on joining the med. sch is given a thorough med exam and a check is kept on students' health throughout their trg Weekly clinics are also held for students who wish to have med advice

PUBLICATIONS. *Prospectus* (annual); *St. Thomas's Hosp Gazette* (6 times a yr); *The History of St Thomas's Hosp.*, by F. G. Parsons, 3 vols., Methuen, 1932 (o/p), *The Story of St. Thomas's 1106-1947*, by Charles Graves, Faber & Faber, 1947, 8s 6d

THE YEAR 1960

RETIREMENTS R. H. O. B. Robinson (surg)

RESIGNATIONS. Dr H. E. de Wardener (reader in med.), apptd. to chair of med., Charing Cross Hosp.; Dr A. J. Buller (sr lectr. in physiol.), apptd. reader at King's Coll.; Dr A. J. Grimes (lectr. in biochem.), apptd. res. biochemist at Postgraduate Med Sch

New admissions, 97 (full-time).

Students from other countries, 27 (Countries from which largest numbers came: S. Rhodesia, 5, Ghana, 4, Kenya, 2)

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	333	24
Women	59	—
Total	392	24*

Distribution by Faculties Med, 416.

Included in the figures above are:—

Postgraduate students, 24

DEGREES AWARDED (1959-60) MSc (anat.), 1, BSc (spec) (hons physiol), 2, BSc (spec) (hons anat), 4; MB BS Lond, 43; MD Lond., 3; MS Lond, 3; PhD Lond, 4; MB BChir Camb., 23, MD Camb, 3, MChir Camb, 1, PhD Camb, 1, BM BCh Oxon, 7 Total number of first degrees awarded, 79

DIPLOMAS AWARDED (1959-60). LRCP, MRCS, 20; MRCP, 10, FRCP, 5, FRCS, 41; FFARCS, 4; FRCOG, 1, DOBstRCOG, 28, MRCPed, 3; FRCSEd, 3; DCP, 1, Dip PsycholMed, 1; DO, 1; DCH, 2; DA, 5, DMRD, 1; DMRT, 2, DPM, 4, DPath, 1; DTM&H, 5, DLO, 1; DPhysMed, 2

* All postgrad. students attending autumn FRCS course, there is a similar course in the spring

[Information compiled as at 18/8/61]

UNIVERSITY COLLEGE HOSPITAL MEDICAL SCHOOL

Founded 1828

Postal Address: University Street, London, W.C.1, England

Cables and Telegrams: University College Hospital Medical School, University Street, London, W.C.1

Telephone: Euston 5861

CHAIRMAN OF THE SCHOOL COUNCIL—SIR CHARLES HARINGTON, PhD Edin., MA ScD Camb., FRCS
DEAN—C. W. FLEMING, OBE, DM MCh Oxon, FRCS

VICE-DEAN—B J. HARRIES, FRCS

SECRETARY—Major-General H L. BIRKS, CB, DSO

APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time]

Anæsthetics		Obstetrics and Gynaecology	
Cope, R. W., FFARCS	†Lectr.	Flew, J. D. S., MD, FRCOG	†Lectr.
Dawkins, C. J. Massey, MA MD <i>Camb</i> , FFARCS	†Lectr.	Nixon, W. C. W., MD, FRCS, FRCOG	Prof
Lucas, B. G. B., FFARCS	(†)	White, N. L., MA MD, FRCS, FRCOG	†Lectr.
Bacteriology		Ophthalmology	
Belyavin, G., MD	Prof	Shapland, C. D., MB BS, FRCS, MRCP	†Lectr.
Stokes, Elizabeth J., MB BS, FRCP	Lectr.	Greaves, D. P., BSc MB ChB <i>Sheff</i> , FRCS	†Lectr.
Dermatology		Oto-Rhino-Laryngology	
Hare, P. J., MD, MRCP	†Lectr.	Formby, M. L., TD, MA, FRCS	†Lectr.
Jarrett, A., MB ChB <i>Birm.</i> , MRCPed	Reader	Milling, P. F., FRCS	†Lectr.
Endocrinology		Wadge, Joan, BS, FRCS	†Lectr.
Swyer, G. I. M., MA DPhil DM <i>Oxon</i> , MD <i>Calif</i> , MRCP	†Lectr.	Pædiatrics	
Forensic Medicine		Bonham-Carter, R. E., MA MB BChir <i>Camb</i> , FRCP	†Lectr.
...	Lectr.	Pathology	
Geriatrics		Radley, D. S., MD	
Amulree, Rt Hon. Lord, MA MD <i>Camb</i> , FRCP	†Lectr.	Pathology, Chemical	
Medicine		Rimington, C., MA PhD DSc, FRS	
Dent, C. E., BSc MD PhD, FRCP		Pathology, Clinical	
(Human Metabolism) Prof		Maizels, M., MD, FRCP, FRS	Prof.
Harris, K. E., MA MD, FRCP	†Lectr.	Graves, Eva M	Lectr.
Hawksley, J. C., CBE, PhD <i>Birm.</i> , MD, FRCP	†Lectr.	Flynn, F. V., MD	Lectr.
Nicholson, H., MD, FRCP	†Lectr.	Pharmacology	
Pochin, E. E., CBE, MA MD, FRCP	Lectr.	Laurence, D. R., MD, MRCP	
Pranker, T. A. J., MD, MRCP	†Lectr.	(P. & Therap.) Reader	
Pritchard, E. A. B., MA MD <i>Camb</i> , FRCP	†Lectr.	Pharmacy	
Rosenheim, M. L., CBE, MA MD, FRCP	Prof.	Whittet, T. D., PhD BSc, FRIC	
Rowlands, E. N., MD	Lectr.	Physical Medicine	
Stokes, J. F., MD, FRCP	†Lectr.	Burt, H. A., MA MB BChir <i>Camb</i> , FRCP	
Mental Diseases		Radiology	
Pond, D. A., MA MD <i>Camb</i> , FRCP	†Lectr.	Hodson, C. J., DMRE <i>Camb.</i> , MB BS, FRCP, FFR	
Tredgold, R. F., MA MD <i>Camb</i>	†Lectr.	†Lectr.	
Soddy, K., MD	†Lectr.	Radiotherapy	
Morbid Anatomy		Hilton, Mrs Gwen, CBE, DMRE <i>Camb.</i> , BSc MB BS, FRCS, FFR	
Cameron, Sir Roy, MB BS DSc <i>Melb.</i> , LLD <i>Edin</i> , FRCP, FRS	Prof	†Lectr.	
Smith, J. F., MB BChir <i>Camb</i> , MRCP	Reader	Surgery	
Jarrett, A., MB ChB <i>Birm.</i> , MRCPed		Davies, D. R., FRCS	
(Dermatol. Histol.) Reader		Flemming, C. W., OBE, DM MCh <i>Oxon.</i> , FRCS	
Neurology		†Lectr.	
Goody, W. W., MD, FRCP	†Lectr.	Gardham, A. J., MS, FRCS	
2 M 2		†Lectr.	

Harries, B. J., FRCS
 Matthews, D. N., OBE, MA MD MChir
Camb., FRCS
 Merrington, W. R., MS, FRCS
 Nightingale, Doreen, MS, FRCS
 Palcher, R. S., MS, FRCS, MRCP

†Lectr. Wolfe, H. R. I., VRD, MS, FRCS
 Buntton, G. L., MChir *Camb.*, FRCS †Lectr.
 †Lectr. Venereal Diseases
 Lectr. Thomas, E. G., OBE, VRD, MD, MRCP
 †Lectr Prof

ADMINISTRATIVE AND OTHER STAFF

Accountant: A. MORRIS, FCA

GENERAL INFORMATION

The history of University Coll. Hosp. Med. Sch. is closely bound up with the history of University Coll. From the time of the opening of the coll. in Oct. 1828, until its incorporation in the Univ. of London in 1907, the fac. of med. was governed by the corporation and council of Univ. Coll. Following the National Health Service Act, 1946, the sch. became a body corporate.

The present med. sch. bldgs. were erected in 1907 as the result of funds subscribed by Sir Donald Currie, and the sch. was admitted as a sch. of the univ. in the fac. of med. on Jan. 1, 1907.

The prelim. and inter med. studies are held at Univ. Coll.

LIBRARY AND MUSEUM. The general library contains about 30,000 books, incl. text-books, books of reference and sets of med. periodicals. The Graham library is a separate collection of books and periodicals, and contains complete sets of British, American, French and German journals of interest to the workers in many branches of med. The Radcliffe Crocker library, which consists of a collection of dermatol. vols., is housed in the Royal Soc. of Medicine library, 1 Wimpole St., London, W.1. The museum of pathol. anat. (curator W. R. Merrington) contains a collection

of med., surg., obstet. and gynæcol. specimens. Microscopic sections of most of the specimens are available for the use of students.

ADMISSION See p. 953 and Appendix III

FEES. For the complete clin. course (Univ. of London), £225 annual composition fee (incl. union membership), £75

SCHOLARSHIPS. One Goldsmid entrance scholp. entitling the holder to the final course of med. study, 1 Goldsmid entrance exhibition entitling the holder to a reduction by £126 of the fees due for the full course of final med. study; one Filliter entrance scholp. in pathol., entitling the holder to a reduction of £123 of the fees for the full course of final med. study. In addn., scholps. and prizes are available to the approx. annual value of £3000.

POSTGRADUATE AWARDS open to grads. of other univs. see p. 808

RESIDENCE Adjoining the med. sch. is a specially equipped hostel solely for students in the sch.

PUBLICATION *Prospectus* (annual)

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61
 (as at the beginning of the academic year)

	Full-Time	Part-Time
Men	235	2
Women	47	1
Total	282	3

Included in the figures above are:—

Postgraduate students, 34

New admissions, 67 (53 m., 14 w.)

Students from other countries, 33 (Countries from which largest numbers came Hong Kong, 6, India, 6)

DEGREES AWARDED (1959-60). MB BS Lond., 68; MD Lond., 1, MB BChir *Camb.*, 16; BM BCh Oxon., 2. Total number of first degrees awarded, 86

DIPLOMAS, ETC., AWARDED (1959-60) MRCS, LRCP, 41 (incl. 27 students who also graduated MB BS and 1 student who also graduated MB BChir), MRCP, 11; FRCS, 7; DOBstRCOG, 9; DPath Lond., 1

UNIVERSITY COLLEGE HOSPITAL DENTAL SCHOOL

DIRECTOR OF DENTAL DEPARTMENT—Professor A. S. PROPHET, DDS DipBact Manc.,
FDSRCS (Dent. Surg.)

APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time]

Anæsthetics		Jurisprudence	
Hudson, M. W. P., MB BS, MRCP, FFARCS	†Lectr.	. . .	
Anatomy		Medicine	
Young, J. Z., MA Oxon., DSc Brist., FRS	Prof.	Stokes, J. F., MD, FRCP	†Lectr.
Bacteriology		Orthodontics	
Belyavin, G., MD	Prof.	Grossmann, W., MD Prague	†Lectr.
Dental Materials		Pathology	
Thorp, H. W., BSc	(†)	Cameron, Sir Roy, MB BS DSc Melb., LLD Edin., FRCP, FRS	Prof.
Dental Surgery		Pharmacology	
Balderston, W. B., LDS Glas	†Lectr.	Whittet, T. D., PhD BSc, FRIC	†Lectr.
Green, C. de V., DDS Tor., FDSRCS	†Lectr.	Prosthetics	
Prophet, A. S., DDS DipBact Manc., FDSRCS	Prof.	Everett, A. E.	Lectr.
Schofield, J., FDSRCS	†Lectr.	Surgery	
Human Metabolism		Mathews, D. N., OBE, MA MD MChir Camb., FRCS	†Lectr.
Dent, C. E., BSc PhD MD, FRCP	Prof.		

ADMINISTRATIVE AND OTHER STAFF

Asst Secretary G. C. Woodward. Accountant A. Morriss, FCA

GENERAL INFORMATION

The National Dental Hosp. was amalgamated with Univ. Coll. Hosp. in 1914, and the dent. sch. was recog. by the Univ. of London. The sch. carries out courses of study for the degree of BDS Lond., and is open equally to men and women.

Students are not eligible to commence until they have passed the 1st MB Lond.

FEES. Annual composition fee (incl. union membership), £75

PUBLICATION. *Prospectus* (annual).

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	83	3
Women . . .	27	—
Total . . .	110	3

Included in the figures above are:—

Postgraduate students, 4.

New admissions, 23 (17 m, 6 w).

Students from other countries, nil

DEGREES AWARDED (1959-60) BDS Lond., 11.

DIPLOMAS AWARDED (1959-60) LDSRCS, 25
(incl. 9 students who also graduated BDS).

WESTMINSTER MEDICAL SCHOOL

Founded 1834

Postal Address: Horseferry Road, Westminster, London, S.W.1, England

Telephone: Victoria 6041-2

CHAIRMAN—THE LORD FLECK, KBE, FRS

DEAN—R. I. S. BAYLISS, MD, FRCP

SUB-DEAN—J. B. WYMAN, MBE, FFARCS

SECRETARY—W. R. MOULE, MA Camb

APPOINTED AND RECOGNIZED TEACHERS

Anæsthetics

Organe, G. S. W., MD Camb, FFARCS

Jarman, R., DSC, FDSRCS

Wyman, J. B., MBE, FFARCS

Scurr, C. F., MVO, MB BS, FFARCS

Lewis, C. B.

Bacteriology

Lacey, B. W., MD BSc (from Oct 1, 1962) Prof.

Dental Surgery

Taylor, R. S., OBE, TD, FDSRCS

Steadman, B. St. J., TD, BDS

Dermatology

Franklin, J. L., MA BChir MD Camb

Samman, P. D., MA MD Camb., MRCP

Ear, Nose and Throat Surgery

Ashcroft, D. W., MB ChB N Z., FRCS

Foxen, E. H. M., FRCS

Hæmatology

Humble, J. G., CVO

Sr. Lectr.

Medicine

Lloyd, W. E., MD, FRCP

Meadows, S. P., BSc MD, FRCP

Gavey, C. J., MD, FRCP

Hart, F. D., MD Edin., FRCP

Tonkin, R. D., MD

Bayliss, R. I. S., MD, FRCP

Milne, M. D., MD, FRCP

Prof

Morbid Anatomy

Morgan, A. D., MA MD ChB Aberd

Mackenzie, D. H., MA MD Camb.

Reader

Obstetrics and Gynæcology

Bell, A. C. H., MB BS, FRCS, FRCOG

Evans, A. B., MB BChir Camb, FRCS, FRCOG
de Vere, R. D., FRCS

Ophthalmology

King, E. F., MB ChB Brist., FRCS

Trevor-Roper, P. D., MD Camb, FRCS

Orthopædics

Harding, H. E., FRCS

Pædiatrics

Anderson, I. M., MD Glas., FRCP

Levi, D., MS, FRCS

Coles, H. M. T., MD, MRCP

Pathology, Chemical

MacLagan, N. F., MD DSc, FRCP, FRIC Prof

Wilkinson, J. H., BSc PhD, FRIC Reader

Pathology, Clinical

Pulvertaft, R. J. V., OBE, MD Camb.,

FRCP

Dawson, I. M. P., MD Camb., MRCP

Prof.

Reader

Psychiatry

Garmany, G., MB ChB Manc., FRCP

Radiology

Kerley, P. J., CVO, CBE, MD N U J.,

DMRE Camb., FRCP

Surgery

Lee, E. S., MS, FRCS

Macnab, G. H., MB ChB Edin., FRCS

d'Abreu, F. A., ChM Burm., FRCS

Raven, R. W., OBE, FRCS

Aylett, S. O., MBE, FRCS

Reidy, J. P., MB BChir Camb., FRCS

Drew, C. E., MVO, MB BS, FRCS

Cox, R., MBE, FRCS

ADMINISTRATIVE AND OTHER STAFF

Chaplain. Rev D L Francis. Supervisor of Students' Health Service P A Emerson, MD Camb, MRCP Manageress of Students' Hostel: Mrs Kathleen M. Cordes

GENERAL INFORMATION

Westminster Hosp. was instituted in the year 1719, and incorporated by act of parliament in 1836. A med sch has existed in Westminster since 1834, but was not brought into formal connexion with the hosp until 1849. The new and enlarged sch was completed in May 1939 in order to meet the demands of the latest devel. in med. educn

CONSTITUTION. Westminster Med. Sch is a sch. of the Univ. of London. Its government is vested in the governing body of the sch. called the council

LIBRARY 5770 vols., 79 current periodicals, 2000 bound vols of periodicals.

MUSEUM 4000 specimens, illustrating all branches of human pathol

TEACHING HOSPITALS Students receive their clin trg in the hosps of the Westminster Hosp teaching group, which consists of Westminster H, the Westminster Children's H, the Gordon H and All Saints' H.

ADMISSION See p. 953 and Appendix III

COURSES The sch is devoted entirely to the clin. subjs., students taking the full London Univ degree course do their pre-clin work at King's Coll., London. Students are also admitted at the clin stage for the degree courses of Oxford, Cambridge and other univs

FEES. Registration fee, £5 5s., annual tuition fee (incl. membership of students' union), £66

SCHOLARSHIPS. Four scholps., each of the value of £40 p.a. for 3 yrs., are awarded on the result of an exam. held in May of each yr in 1st yr subjects. 4 scholps of similar value are also

awarded annually as the result of exams in anat and physiol held in April and Sept. The winners of these scholps. are eligible to apply to the Ministry of Educn for a supplemental award, which is assessed in accordance with financial circumstances. The David de Souza scholp. of the value of £40 p.a. is awarded on the results of an exam in appl physiol. held in March, the award is for 4 terms, for the BSc spec. course in physiol after pre-clin studies.

POSTGRADUATE AWARDS open to grads. of other univs see p 808

STUDENTS' RESIDENCE Hostel for men students at Brabazon House, 5 Moreton St., S.W.1, provides accomm. for some 70 students. Fees, £3 15s per wk for a single room and £3.5s per wk. for a cubicle, with morning, evg. and wk-end meals

STUDENTS' HEALTH SERVICE. There is a students' health service and all students are seen on admission by the physician in charge.

ATHLETIC FACILITIES The sch.'s sports ground is at Cobham, Surrey. Pitches for rugby union football, assocn football, hockey and cricket, also new pavilion and 6 tennis courts

STUDENTS' UNION. The students' union incl. clubs covering rugby union football, assocn. football, athletics, boating, chess, cricket, lawn tennis, hockey, golf, fencing, squash racquets and sailing. The refectory cttree, responsible to the students' union, is in charge of the sch refectory.

PUBLICATIONS *Prospectus*, biennial. *The Broad Way* (students'), 4 times a yr.

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	166	9
Women	32	2
Total	198	11

Included in the figures above are —

Postgraduate students, 24.

New admissions, 43.

Students from other countries, 14 (Countries from which largest numbers came. Hong Kong, 2; Singapore, 2).

DEGREES AWARDED (1959-60) MS Lond., 1; MB BS Lond., 37; MB BChir Camb., 16; BM BCh Oxon., 3

LICENTIATSHIPS ETC., AWARDED (1959-60). MRCS, LRCP, 24

POSTGRADUATE MEDICAL SCHOOLS

[Information compiled as at 16/8/61]

BRITISH POSTGRADUATE MEDICAL FEDERATION

Founded 1945

Postal Address of Central Office · 18 Guilford Street, London, W.C 1, England
Cables and Telegrams . Britgramed, London
Telephone . Holborn 2716

CHAIRMAN OF GOVERNING BODY—The Rt. Hon THE LORD COTTESLOE, GBE, TD, MA *Camb.*
DIRECTOR—Professor Sir JAMES PATERSON ROSS, Bt , KCVO, Hon LLD *Glas* , MS, FRCS

APPOINTED AND RECOGNIZED TEACHERS

[† = Part-Time]

Note.—In the following list the names of the institutes are indicated by letters thus

Institute of Basic Medical Sciences (BMS)	Institute of Neurology (N)
Institute of Cancer Research (CR)	Institute of Obstetrics and Gynaecology (OG)
Institute of Cardiology (C)	Institute of Ophthalmology (Op)
Institute of Child Health (CH)	Institute of Orthopaedics (Orth)
Institute of Dental Surgery (DS)	Postgraduate Medical School of London (PM)
Institute of Dermatology (D)	Institute of Psychiatry (Psy)
Institute of Diseases of the Chest (DC)	Institute of Urology (U)
Institute of Laryngology and Otology (LO)	

Anæsthetics

Beard, A. J. W., MD, FFARCS	† Lectr (PM)
Cope, R. W., FFARCS	† Lectr. (CH)
Goldman, V., FFARCS	† Lectr. (DS)
Lucas, B. G. B., FFARCS	† Lectr (DC)
Payne, J. P., FFARCS	Lectr. (PM)
Steel, G. C., FFARCS	† Lectr (OG)
Woodfield-Davies, H., FFARCS	† Sr Lectr (PM)

Anatomy

Causey, G., MB ChB <i>Liv</i> , FRCS	† Prof (BMS)
Last, R. J., MB BS <i>Adel</i> , FRCS	Sr Lectr.

Biochemistry

Boyland, E., DSc <i>Manc.</i> , PhD	Prof (CR)
Mellwain, H., DSc PhD <i>Durh.</i>	Prof. (Psy)

Elson, L. A., PhD Reader (CR)
 Long, C., MA BSc DPhil *Oxon* Reader (BMS)
 Dalghesh, C. E., MA PhD *Camb*

Sr Lectr. (PM)
 Longmuir, I. S., MB BChir *Camb.*

Sr. Lectr. (DC)
 Popjak, G. J., MD *Szeged*, FRIC, FRS

†Sr. Lectr. (PM)
 Walker, P. G., MB ChB BSc *Edin.*,
 PhD *Aberd.*

Sr Lectr. (Orth)
 Rodnight, R. W., BSc PhD Lectr. (Psy)
 Somerville, I. F., PhD MD *Edin* Lectr. (OG)

Biophysics

Hill, D. K., MA *Camb* Sr. Lectr. (PM)
 Beicher, E. H., MA *Camb*, PhD Sr. Lectr. (PM)

Chemistry

Bergel, F., DPhil *Freib*, PhD DSc, FRS Prof. (CR)
 Butler, J. A. V., DSc, FRS Prof. (CR)

Ambrose, E. J., MA *Camb.*
 (Phys. Chem.) Reader (CR)

Roe, Edna M. F., BSc PhD
 (Spectroscopy) Reader (CR)

Ross, W. C. J., DSc PhD Reader (CR)
 Timmis, G. M., MSc *Manc.*, FRIC Reader (CR)

Children's Diseases

Moncrieff, A. A., CBE, MD, FRCP, FRCOG
 Nuffield Prof. (CH)

Tanner, J. M., MD *Penn*, PhD DSc
 MB BS DPM

(Growth & Devel of Children) Reader (CH)
 Tizard, J. P. M., MA BM BCh *Oxon*.

Reader (CH)
 Bonham-Carter, R. E., MA MB BChir *Camb*,
 FRCP

†Lectr. (CH)
 Dobbs, R. H., MD *Camb*, FRCP †Lectr. (CH)
 Evans, P. R., MD MSc *Manc.*, FRCP

†Lectr. (CH)
 Franklin, A. W., MA MB BChir *Camb*,
 FRCP

Lectr. (OG)
 Lightwood, R., MD, FRCP Lectr. (CH)
 News, G. H., MD, FRCP †Lectr. (CH)

Norman, A. P., MA MD *Camb.*, FRCP
 †Lectr. (CH)

Schlesinger, B. E., OBE, MA MD *Camb.*,
 FRCP †Lectr. (CH)

Sheldon, Sir Wilfred P. H., KCVO, MD,
 FRCP †Lectr. (CH)

Wilmers, Mary J., MD, FRCP †Lectr. (CH)

Cytogenetics

Koller, P. C., BSc PhD *Bud.*, DSc *Edin*
 Prof. (CR)

Dental Surgery

Ballard, C. F., FDSRCS (Orthod.) Prof. (DS)
 Killey, H. C., FDSRCS (Oral Surg.) Prof. (DS)

Bradlaw, R. V., CBE, MDS *Durh.*, FRCS,
 FDSRCS (Oral Med.) Prof., Dir. (DS)

Cross, W. G., MB MS BDS †Sr. Lectr. (DS)
 Marrant, G. A., DDS Sr. Lectr. (DS)

Stephens, R. R., BDS Sr. Lectr. (DS)
 Lee, J. H., LDS Sr. Lectr. (DS)
 Muls, J. R. E., MSc *Manc.*, FDSRCS
 †Lectr. (DS)

Dermatology

Calnan, C. D., MA MB BChir *Camb.*,
 MRCP Prof. (D)

Magnus, I. A., MB BChir *Camb*, MRCP
 Sr. Lectr. (D)

Wells, G. C., MB BChir *Camb*, FRCP
 †Sr. Lectr. (D)

Bettley, F. R., MD, FRCP †Lectr. (D)
 Forman, L., MD, FRCP †Lectr. (D)

Gold, S. C., MD *Camb*, FRCP †Lectr. (D)
 Mitchell-Heggs, G. B., OBE, TD, MD,
 FRCP †Lectr. (D)

Porter, A. D., MD *Camb*, FRCP †Lectr. (D)
 Russell, B. F., MD, FRCP †Lectr. (D)

Samman, P. D., MA MD *Camb.*, MRCP
 †Lectr. (D)

Wallace, H. J., MD *Camb*, FRCP †Lectr. (D)

Hygiene and Public Health

Roberts, J. A. F., MA *Camb.*, MD *Edin*,
 FRCP †Lectr. (CH)

Medical Statistics

Case, R. A. M., MD ChB PhD *Birm*
 Sr. Lectr. (CR)

Medicine

Bywaters, E. G. L., MB BS, FRCP
 (Rheumatol.) Empire Rheumatism
 Council Prof. (PM)

Fraser, T. R., MD N Z., FRCP
 (Clin. Endocrinol.) Prof. (PM)

McMichael, J., MD Hon LLD *Edin*,
 FRCP, FRS Prof. (PM)

Cope, C. L., BM BCh *Oxon*, FRCP
 (Metabolic Dis) Reader (PM)

Marshall, J., MD *Manc*, DPM, MRCP,
 MRCPed (Clim Neurol.) Reader (N)

Bignall, J. R., MD *Camb*, FRCP
 †Sr. Lectr. (DC)

Fletcher, C. M., MA *Camb*, MD, FRCP
 Sr. Lectr. (PM)

Goodwin, J. F., MD †Sr. Lectr. (PM)
 Harrison, A. R., MD, MRCP Sr. Lectr. (U)

McDonald, E. L., MD *Camb*, MRCP
 Asst Dir. (C)

Pepys, J., MB ChB *Rand*, MRCP
 †Sr. Lectr. (DC)

Prime, F. J., MD *Durh.* Sr. Lectr. (DC)
 Scadding, J. G., MD, FRCP †Dir. (DC)

Shillingford, J. F., MD, FRCP †Sr. Lectr. (PM)
 Wood, P. H., OBE, MD *Melb.*, FRCP
 †Dir. (C)

Lecturers

Barnes, C. G., MD, FRCP †(OG)
 Behrman, S., BSc †(Op)

Bishop, P. M. F., BA DM *Oxon*. †(OG)
 Bram, Sir Russell, MA DM *Oxon*, FRCP †(N)

Brinton, D. H., DM *Oxon*, FRCP †(N)
 Brooks, W. D. W., CBE, DM *Oxon*,
 FRCP †Lectr. (DC)

- Critchley, M., MD *Brust.*, FRCP †(N)
 Dunsdale, Mrs Helen E., MA MD *Camb.*, FRCP †(N)
 Dixon, A. St J., MD, MRCP †(PM)
 Gavey, C. J., MD, FRCP †(Op)
 Gooddy, W. W., MD, FRCP †(N)
 Hawksley, J. C., CBE, PhD *Birm.*, MD, FRCP †(U)
 Henson, R. A., MD, FRCP †(N)
 Hugh-Jones, P., MA MD *Camb.*, MRCP †(PM)
 Kelly, R. E., MD, MRCP †(N)
 Lander, F. P. Lee, OBE, MD, FRCP †(DC)
 Livingstone, J. L., MD, FRCP †(DC)
 Macpherson, Alice M. C., MD, FRCP †(Op)
 Meadows, S. P., BSc *Lsw.*, MD, FRCP †(Op)
 Nassim, J. R., MA BM BCh *Oxon.*, FRCP †(Orth)
 Nicholson, H., MD, FRCP †(DC)
 Oswald, N. C., TD, MD *Camb.*, FRCP †(DC)
 Plummer, N. S., MD, FRCP †(DC)
 Pritchard, E. A. B., MA MD *Camb.*, FRCP †(N)
 Robson, K., CBE, MD *Camb.*, FRCP †(DC)
 Rusby, N. L., DM *Oxon.*, FRCP †(DC)
 Smart, J., MD *Camb.*, FRCP †(DC)
 Stevenson, F. H., MD †(Orth)
 Williams, D. J., CBE, DSc MD *Manc.*, FRCP †(N)
- Mental Diseases (Psy)**
- Lewis, Sir Aubrey J., MD *Adel.*, FRCP Prof
 Shepherd, M., MD BCh *Oxon.* Reader
 Ackner, B. G. C., MD *Camb.*, DPM, MRCP †Lectr.
 Blacker, C. P., MA, FRCP †Lectr.
 Cameron, K., MB ChB *Edn.*, FRCPed †Lectr.
 Creek, Eleanor M., MD DPM, FRCP †Lectr. (CH)
 Davies, D. L., MA DM *Oxon.*, DPM †Lectr.
 Gibbens, T. C. N., BA MD *Camb.*, DPM †Lectr.
 Gillespie, W. H., MD *Edn.*, MRCP †Lectr.
 Leigh, A. D., MD *Manc.*, FRCP †Lectr.
 Pond, D. A., MA MD *Camb.*, FRCP †Lectr.
 Post, F., MB BS, DPM †Lectr.
 Rees, W. L. L., BSc MD *Wales*, MRCP †Lectr.
 Scott, P. D., MA MD *Camb.* †Lectr.
 Slater, E. T. O., MA MD *Camb.*, FRCP †Lectr.
 Stafford-Clark, D., MD DPM, MRCP †Lectr.
 Taylor, F. K., MD *Prague*, DPM †Lectr.
 Warren, W., MD *Camb.* †Lectr.
- Microbiology**
- Loveless, A., BSc PhD Sr. Lectr. (CR)
- Obstetrics and Gynaecology (OG)**
- Browne, J. C. McC., BSc MB BS, FRCOG, FRCSEd Prof
 Pinkerton, J. H. M., MD *Belf.*, FRCOG Prof
 MacGregor, W. G., MB BS *Melb.*, FRCS, FRCOG Reader
 Murdoch, J. D., MB ChB *N.Z.*, FRCSEd Sr. Lectr.
 Arthur, H. G. E., MD, FRCS, FRCOG †Lectr.
- Bell, A. C. H., MB BS, FRCS, FRCOG †Lectr.
 Blakley, J. B., MB BS, FRCS, FRCOG †Lectr.
 Clayton, S. G., MD MS, FRCS, FRCOG †Lectr.
 Evans, A. B., MB BCh *Camb.*, FRCS, FRCOG †Lectr.
 Feroze, R. M., MD, FRCS †Lectr.
 Flenning, Amy, MD *Glas.*, FRCOG †Lectr.
 Flew, J. D. S., MD, FRCOG †Lectr.
 Gibberd, G. F., MS, FRCS, FRCOG †Lectr.
 Jackson, I. M., MB BCh *Camb.*, FRCS †Lectr.
 Lewis, T. L. T., MB BCh *Camb.*, FRCS †Lectr.
 Rickford, R. B. K., MD, FRCS, FRCOG †Lectr.
 Robinson, Kathleen M., MD, FRCS, FRCOG †Lectr.
 Winterton, W. R., MA MB BCh *Camb.*, FRCS †Lectr.
 Wynn-Williams, G., MB BS, FRCS †Lectr.
- Ophthalmology (Op)**
- Perkins, E. S., MB BS, FRCS Reader
 Jones, B. R., MB ChB *N.Z.*, FRCS Sr. Lectr.
 Wybar, K. C., ChM MD *Glas.*, FRCS †Sr. Lectr.
 Ainslie, D., MD *Camb.*, FRCS †Lectr.
 Ayoub, J. E. M., BM BCh *Oxon.*, FRCS †Lectr.
 Cardell, J. D., MB BS, FRCS †Lectr.
 Cook, C. A. G., MC, GM, FRCS †Lectr.
 Cross, A. G., MA MD *Camb.*, FRCS †Lectr.
 Doggart, J. H., MA MD *Camb.*, FRCS †Lectr.
 Duke-Elder, Sir Stewart, KCVO, MA MD DSc *St. And.*, PhD, FRCS, FRCS †Dir.
 Goldsmith, A. J. B., MB BS, FRCS †Lectr.
 Greaves, D. P., MB ChB *Shaff.*, FRCS †Lectr.
 Hudson, J. R., MB BS, FRCS †Lectr.
 King, E. F., MB ChB *Brust.*, FRCS †Lectr.
 Law, F. W., MA MD *Camb.*, FRCS †Lectr.
 Leigh, A. G., MD *Liv.*, FRCS †Lectr.
 Lister, A., MB BCh *Camb.*, FRCS †Lectr.
 Lyle, T. K., CBE, MA MD MChir *Camb.*, MRCP, FRCS †Lectr.
 Miller, S. J. H., MD *Aberd.*, FRCS †Lectr.
 Moffatt, P. McG., MD DOMS DPH, FRCS †Lectr.
 Ridley, F. T., BSc MB BS, FRCS †Lectr.
 Ridley, N. H. L., MA MD *Camb.*, FRCS †Lectr.
 Shapland, C. D., MB BS, FRCS, MRCP †Lectr.
 Stallard, H. B., MBE, MD *Camb.*, Hon. LLD *St. And.*, FRCS †Lectr.
 Trevor-Roper, P. D., MD *Camb.*, FRCS †Lectr.
- Orthopaedics (Orth)**
- Burrows, H. J., MA MD *Camb.*, FRCS, FRACS †Lectr.
 Cholmeley, J. A., MB BS, FRCS †Lectr.
 Frupp, A. T., MB BCh *Oxon.*, FRCS †Lectr.
 Lloyd-Roberts, G. C., MB BCh *Camb.*, FRCS †Lectr. (CH)
 Nissen, K. I., BSc MB ChB *N.Z.*, MD, FRCS †Lectr.
 Newman, P. H., DSO, MC, FRCS †Lectr.
 Seddon, H. J., MA DM *Oxon.*, MB BS, FRCS †Dir.
 Trevor, D., MB MS, FRCS †Lectr.
 Wilson, J. N., MB ChM *Birm.*, FRCS †Lectr.

Oto-Rhino-Laryngology

- Harrison, D F N, MD MS, FRCS
(Laryngol.) Reader (LO)
McLay, K., MB ChB *Edin.*, FRCSed
(Otol.) Reader (LO)
Asherson, N., MB BS, FRCS †Lectr (LO)
Cawthorne, T., FRCS †Lectr (N)
Elms, M F, MD MS, FRCS †Lectr (LO)
Hallpike, C S, CBE, MB BS, FRCS,
FRCP †Lectr. (N)
Hogg, J C, CVO, MA MB BChir *Camb.*,
FRCS †Lectr (LO)
Howells, G H., MB BS, FRCS †Lectr (LO)
McKenzie, W. S., BA MB BChir *Camb.*,
FRCS †Lectr. (LO)
Radeliffe, A., BA MB BCh *Dub.*, FRCS
†Lectr. (LO)

Pathology and Bacteriology

- Ashton, N H, DSc, MRCP (Pathol.) Prof (Op)
Blackwood, W., MB ChB *Edin.*, FRCSed,
MRCPed (Neuropathol.) Prof. (N)
Cummings, J N, MD, FRCP (Chem. P.) Prof (N)
Cunningham, G J, MBE, MD (Pathol.) Prof. (BMS)
Dacie, J V, MD, FRCP (Haematol.) Prof. (PM)
Daniel, P. M., MB BChir *Camb.*, DM *Oxon*
(Neuropathol.) Prof (Psy)
Haddow, A., MD DSc PhD *Edin.*, FRCS
(Exper. P.) Prof. (CR)
Harrison, C. V., MD BSc *Wales* (Morbid Anat.) Prof (PM)
King, E J., MA *McM.*, PhD *Tor.* (Chem. P.) Prof. (PM)
Stamp, Rt. Hon Lord, MA MB BChir
Camb. (Bacteriol.) Prof (PM)
Barber, Mary, MD (Clin. Bacteriol.) Reader (PM)
Davies, J N. P., MD *Brist* (Morbid Anat.) Reader (PM)
Friedmann, I, MD *Prague*, DCP (Bacteriol.) Reader (LO)
Kramer, I R H, MDS (Oral P.) Reader (DS)
Pearse, A G. E., Hon MD *Basle*, MA
MD *Camb.*, DCP (Pathol.-Histochem.) Reader (PM)
Roe, F J C., MA DM BCh *Oxon* (Exper. P.) Reader (CR)
Wootton, I D P., MB BChir *Camb.*, PhD
(Chem. P.) Reader (PM)
Blake, C G., MB BS, FDSRCS †Sr Lectr (DS)
Brierley, J B, MD ChB *Brist.* Sr. Lectr. (Psy)
Gowing, N. F C, MD †Sr. Lectr (CR)
May, J. R., MD *Camb.* Sr. Lectr. (DC)
Mitchison, D. A., BA MB BChir *Camb*
Sr Lectr. (PM)
Pedler, C M. H., MB BS PhD Sr Lectr. (Op)
Reid, Lynne McA, MB BS *Melb.*, MRCP
†Sr. Lectr. (DC)
Walter, J B., MD, MRCP Sr Lectr. (BMS)
White, J. C., MB ChB *Birm* Sr Lectr. (PM)
Bodian, M., MD *Vienna*, DCP †Lectr (CH)
Claireaux, A. E., MD †Lectr. (OG)

Clayton, Barbara E., PhD MD ChB *Edin.*

- Ferreira, H P, MD †Lectr. (CH)
Haber, H, MD *Prague* Lectr (OG)
Haines, R M, MD †Lectr (D)
Hardisty, R M, MD, MRCP †Lectr (OG)
Heard, B., MD *Wales*, MRCP †Lectr. (CH)
Hinson, K F. W. Lectr. (PM)
Hudson, R E. B., BPharm MD †Lectr. (DC)
Lack, C H, MB BS *Syd.* Lectr. (C)
Levin, B., PhD MD †Lectr. (CH)
MacIntyre, I., MB ChB *Glas.*, PhD Lectr. (PM)
McMenemey, W. H., DM *Oxon*, FRCP
Mollin, D. L., BSc MB BCh *Wales* †Lectr (N)
Murray, J., MD *Camb.* Lectr (PM)
Pugh, R C B, MD BS †Lectr. (OG)
Ruddell, R W, MD, FRCPed †Lectr. (U)
†Lectr. (DC) & (D)
Sandler, M., MB ChB *Manc.*, MRCP
†Lectr (OG)
Sissons, H A., MB BS *Melb.* Lectr (Orth)

Pharmacology

- Born, G V. R., DPhil *Oxon*, MB
ChB *Edin.* Vandervell Prof. (BMS)
Vane, J R, BSc DPhil *Oxon.* Reader (BMS)

Physics

- Mayneord, W. V., CBE, DSc *Birm.*, FIP
Prof (CR)
Lamerton, L F., MSc PhD, FIP
(Biophys. as appl. to Med.) Prof (CR)
Trott, N G., BSc PhD, FIP Sr. Lectr. (CR)
Turner, R C., BSc PhD Sr Lectr. (CR)

Physiology

- Harris, G W., MA MD ScD *Camb.*, FRCS
Fitzmary Prof. (Psy)
Goldacre, R. J., MSc *Syd.*, PhD
(Cell Physiol.) Reader (CR)
Slome, D., MA PhD MB ChB *Cape T.*
†Dir. (BMS)

Psychology

- Eysenck, H. J., BA PhD Prof (Psy)
Shapiro, M B., MA *Rhodes* Reader (Psy)
Gwynne Jones, H., BSc Sr. Lectr (Psy)
Broadhurst, P L., MA *Stan.*, PhD
Sr. Lectr. (Psy)
Granger, G. W., BA PhD Lectr (Psy)

Radiobiology

- Alexander, P., BSc PhD Sr. Lectr. (CR)

Radiology

- Smithers, D. W., MD *Camb.*, DMR, FRCP,
FFR Prof. (CR)
Steiner, R. E., MD *Dub.*, MRCP, FFR
(Diag. Radiol.) Prof (PM)
Bull, J W. D., MA MD *Camb.*, DMR, FRCP,
FFR †Lectr (N)

Golding, F C, MB ChM *Syd.*, DMRE *Camb.*,
FRCP, FFR †Lectr (Orth)
Lederman, M, DMRE *Camb.*, MB BS,
FFR Sr. Lectr (CR)
Laws, J W, MB ChB *Sheff*, MRCP,
FFR †Lectr. (PM)
Stevenson, J J, MD *Edin*, DMR †Lectr (U)
Sutton, D., MD, MRCP, FFR †Lectr (N)
Williams, E R, DMRE *Camb*, MD,
FRCP, FFR †Lectr (OG)

Surgery
Aird, I, MB ChB *Edin*, FRCSEd Prof. (PM)
Shackman, R., MB BS, FRCS
(Urol) Prof (PM)
Wilkinson, A W., ChM *Edin*, FRCSEd
(Paed. S) Nuffield Prof. (CH)
Dempster, W. J., FRCSEd
(Exptl. S) Reader (PM)
Melrose, D. G., MA BM BCh *Oxon*
(Clin Rheology) Reader (PM)
Franklin, R H, MB BS, FRCS †Sr. Lectr (PM)
Gray, C H, BSc MB ChB *Man.*, FRCS
†Sr Lectr. (PM)
Knight, G C, MB BS, FRCS †Sr Lectr. (PM)
Wallace, D M., MS, FRCS †Sr Lectr. (U)
Badenoch, A. W., MA MD ChM *Aberd.*,
FRCS †Lectr (U)
Barrett, N. R., MB MChir *Camb.*, FRCS
Lectr (DC)
Bentall, H. H., MB BS, FRCS Lectr. (PM)
Brook, Sir Russell C., MS, FRCS †Lectr. (DC)
Cleland, W. F., MB BS *Adel.*, FRCS †Dir (DC)

Fergusson, J D, MA MD *Camb.*, FRCS
†Lectr. (U)
Hanley, H G, MD, FRCS †Lectr. (U)
Heanley, C. L., MA MB, FRCS †Lectr. (LO)
Jackson, H, FRCS †Lectr (N)
Kilpatrick, F R., MB MS, FRCS †Lectr (U)
Macnab, G H., MB ChB *Edin.*, FRCS
†Lectr. (CH)
Maitin, P G. C., MA MB MChir *Camb.*,
FRCSEd †Lectr (PM)
Matthews, D N, OBE, MA MD
MChir *Camb.*, FRCS †Lectr (CH)
McKissock, W., OBE, MB MS, FRCS †Lectr (N)
Monro, A K., MA MD BChir *Camb.*,
FRCS †Lectr. (PM)
Nixon, H. H., MB BChir *Camb.*, FRCS
†Lectr (CH)
Rees, H., MA BM MCh *Oxon*, FRCS
†Lectr. (U)
Sandrey, J. G., MB ChM *Syd*, FRCS
†Lectr. (U)
Sellors, T H, DM MCh *Oxon.*, FRCS
†Lectr (DC)
Stephenson, W H, FRCSEd Lectr. (PM)
Taylor, S F, MA BM MCh *Oxon.*,
FRCS †Lectr (PM)
Thompson, V. C., MB BS, FRCS †Lectr (DC)
Tubbs, O S., MB BChir *Camb.*, FRCS
†Lectr (DC)
Waterston, D J, MBE, MB ChB *Edin*,
FRCS †Lectr. (CH)
Williams, D I, MA MD MChir *Camb.*,
FRCS †Lectr (CH & U)

ADMINISTRATIVE AND OTHER STAFF

STAFF OF CENTRAL OFFICE Asst Dirs : C F
Hamilton-Turner, MA DM BCh *Oxon*, K. A. T.
Martin, MD ChB *Edin* (pt-time) Secretary of
Central Office : A Yvonne Champaloup, MBE,
BA N.Z. Accountant : H Leslie Smith, FCA
Regional Advisers in Postgrad Educn. to Metro-

politan Hosp Regions Medical : N.E. Region,
D F Ellison Nash, FRCS, S.E. Region, A A G
Lewia, MD, FRCP, N.W. S.W. & Wessex
Regions, D. C. Bowie, OBE, MB ChB *Glas*,
FRCSEd. Dental : A. D. E. Shefford, OBE,
FDSRCS.

GENERAL INFORMATION

The federation was establd by the senate in
1945 for the further devel. of postgrad med.
educn. in London. It was incorporated by royal
charter in March 1947, and admitted as a sch.
of the univ. in Dec 1947. The purpose of the
federation is to provide organized and correlated
facilities for postgrad teaching and res. for
qualified med. and dent. practitioners from the
U.K. and other countries in and outside the
Commonwealth, and to co-operate with univs,
med schs, the royal colls and other bodies in
their provisions for postgrad med educn. The
federation provides (i) trg for prospective
specialists, supplementing the work of the under-
grad. med and dent schs; (ii) advanced revision
for practising specialists; (iii) instructn for med.
and dent. practitioners who, though not specialists,

desire more detailed knowledge of any branch of
med. or dent.; (iv) continuing educn. of general
practitioners

The federation comprises at present : *federated
institutes*—Postgrad Med. Sch. of Lond., Inst
of Basic Med Scis; Inst of Cancer Res; Royal
Cancer Hosp.; Inst of Cardiol, Inst. of Child
Health, Inst of Dent Surg, Inst of Dermatol;
Inst. of Dis of the Chest, Inst of Laryngol. &
Otol; Inst of Neurol (Queen Square); Inst.
of Obstet & Gynaecol., Inst. of Ophthalmol;
Inst of Orthopaed, Inst of Psychiatry, Inst
of Urol.

Postgraduate educn at the insts. and the hospo
associated with them includes full-time and pt-
time courses of advanced instructn., clin clerk-
ships, j., and sr. resident hosp. appts. and oppor-

tunities for res. Provision is made for candidates for the MD, MS, MDS and PhD degrees, and courses are held for the academic postgrad dipl in clin. pathol and psychol med of the univ. In addn most insts hold conferences and symposia for consultants

The federation organizes short courses for gen med and dent practitioners and med officers of local authorities at hosps in the 4 London metropolitan regions and the Wessex region, these incl a number of courses consisting of half-day sessions, at undergrad and postgrad. teaching hosps. The admin of the federation is carried out by the central office, which maintains a bureau of information on postgrad. med educn. in the U.K., and arranges annually a series of lectures on 'the scientific basis of med.'. Three lectures on 'the scientific basis of dent.' will again be held in 1962. These are designed for res. workers and specialists in trg, and are given by well-known experts from centres throughout the country.

The federation awards a limited number of travelling fellowships annually to medically or dentally qualified men and women who are holding appts at undergrad or postgrad. teaching hosps

or med schs of the Univ of London See also p 808

Following the institution of the national health service in July 1948, the federation appointed to the staff of the central office a regional adviser for postgrad med educn in each of the 4 metropolitan regions to carry out the policy of the univ and the federation in arranging postgrad educn for the practitioners, both specialist and gen, in the region. The S.W. metropolitan region was divided into 2 in 1959, the more distant part being separated from the S.W. region and named the Wessex region. In Oct 1956 a regional adviser in postgrad dent educn was apptd. The regional advisers are members of the admin. staff of the central office (see above)

PUBLICATIONS *Annual Report and Handbook*, information leaflet concerning federation; table of postgrad med. courses held at univs in the U.K., programmes of courses for gen med and dent practitioners organised by federation, programmes of symposia for consultants held at insts of the federation, vol of lectures arranged by the federation, entitled *The Scientific Basis of Medicine—Annual Reviews* (Athlone Press).

THE YEAR 1960

RETIREMENTS. Prof. Sir Francis Fraser (dir, 1945-60)

STUDENT NUMBERS are shown below for each inst. The majority of postgrads of the fed. (there are no undergrad. students) stay only 1 or 2 terms of the session at an inst. and very few remain over from one yr. to another, as they are encouraged to take hosp. appts as part of their clin trg. The numbers of full-time students given below for each inst. are those who attended full-time for 1 term

or more of the yr. Pt-time includes those who attended for less than 1 term, whether full-time or pt-time, and those who attended pt-time for any period of the yr incl occasl. lectures, etc. Most of the pt-time students spend the rest of their time at other hosps in London or in reading for exams. Students from other countries, 2607. (Countries from which largest numbers came: India, 532; Australia, 296; South Africa, 160; Egypt, 146; Ceylon, 134; Pakistan, 117; U.S.A., 95; New Zealand, 93; Eire, 83; Iraq, 81; Canada, 80).

INSTITUTES OF THE FEDERATION

- (a) POSTGRADUATE MEDICAL SCHOOL OF LONDON (Ducane Rd., Shepherd's Bush, London, W 12 Cables and Telegrams Postgradmed Chsk, London. Tel. Shepherd's Bush 2030) *Dean*—C. Newman, MD Camb., FRCP.

Incorporated by royal charter 1931, reconstituted in 1946 as an inst. of the federation for postgrad instructn. in med, surg, pathol. and radiol. The sch. is associated with Hammermith Hosp — which contains, when fully opened, 710 beds. There are 3 ten-wk. terms in the yr when organized teaching is arranged daily from 9 a.m. to 4 p.m.; hosp practice available during vacation. Fees: £40 per term. Facilities for res. work provided under direction of profs. for suitable students. Course for dipl. in clin. pathol.

commences annually in Oct. For advanced students courses in anaesthetics are arranged in the Oct. and Apr terms and teaching suitable for candidates for the DA is provided in the Jan. term, with a prelim. practical course in the preceding autumn term. There is a pathol. museum and a mod. and well-equipped reference library for use of the students.

PUBLICATIONS *Prospectus and Annual Report*.

U.K.—ENGLAND (LONDON)

THE YEAR 1960

PRINCIPAL BENEFACTIONS Nuffield Foundation, £12,500 p a for 5 years for the establ of Nuffield Unit of Clin Physiol, £76,478 for res

RESIGNATIONS Dr W Klyne (reader in biochem.), apptd to chair of chem. at Westfield Coll; Dr M D Milne (lectr in med), apptd to chair of med at Westminster Med.

School, Dr I Doniach (reader in morbid anat.), apptd to chair of pathol at London Hosp Med Coll

STUDENT NUMBERS, 1960-61. (See also 'Student Numbers', above)

Full-Time	Part-Time	Total
392 m, 68 w	106 m, 15 w.	581

- (b) INSTITUTE OF BASIC MEDICAL SCIENCES (Royal College of Surgeons of England, Lincoln's Inn Fields, London, WC 2 Tel. Holborn 3474) Dean—Prof H J B Atkins, DM MCh Oxon, FRCS

The inst., formed in 1951 and approved for recog as a federated inst of the federation in Jan 1957, comprises the teaching facilities of the depts. of anat, pathol., pharmacol and physiol. of the Royal Coll. of Surgeons of England. It co-operates with other specialist insts of the federation to provide facilities for practical work and instruct. in basic med scis. and there are opportunities for res for selected grads. Library, museum and residential accomm available Regular 24 wks' revision course covering autumn and spring terms suitable for candidates for higher

med and dent. degrees and dipls, fee, 70 gs (lectures only, 40 gs.) 12 wks' revision course for dent surgeons in summer term; fee, 35 gs

THE YEAR 1960

STUDENT NUMBERS, 1960-61. (See also 'Student Numbers', p 1075).

Full-Time	Part-Time	Total
129 m, 9 w	439 m, 54 w.	631

- (c) INSTITUTE OF CANCER RESEARCH. ROYAL CANCER HOSPITAL, Fulham Rd, London, SW 3. Tel.: Flaxman 8171 (Chester Beatty Research Inst, tel.: Flaxman 8133) Actg Dean—Prof A. Haddow, MD DSc PhD Edin, FRSc

The inst., approved for recog as a federated inst of the federation in 1951, comprises Chester Beatty Res Inst and parts of the depts of phys and radiotherapy at the Royal Marsden Hosp. It is concerned with all aspects of res into causation and treatment of cancer, with trg of res. workers in this field, and with advanced teaching in biophys. and radiotherapy. Courses are held for the MSc and PhD degrees in phys and biophys of the Univ. of London. Excellent facilities are available in the phys dept at Sutton for res in radiobiol. and environmental radioactivity. The radiotherapy dept provides clin trg. for DMRT students, and courses of 1 wk's duration in May and Nov for visitors with suitable experience. Facilities for those wishing to pursue res in the

clin and pathol aspects of cancer. Facilities also for res. into physical and biol foundations of med. radiol. There are labs for chem, biochem and histol investigations into cancer and allied diseases, and a library

THE YEAR 1960

NEW CHAIR. Personal chair: biophys as appl to med (Dr. L F Lamerton)

STUDENT NUMBERS, 1960-61. (See also 'Student Numbers', p. 1075)

Full-Time	Part-Time	Total
55 m, 10 w	9 m., 2 w.	76

- (d) INSTITUTE OF CARDIOLOGY (35 Wimpole St., London, W 1. Tel. Welbeck 1896). Dean—W. W. Brigden, MD, FRCP.

The inst., which is associated with the National Heart Hosp. and was formed in 1946, has been approved for recog. as a federated inst. of the federation since April 1, 1954. Trg. is provided by means of registrar appts for physicians who intend to specialize in cardiol., and full-time

instruct. for a period of 8-10 wks for postgrads already trained in general med. Trg. includes clin. cardiol., electro-cardiography and radiol. and pathol. of the heart. Courses start in Jan, April (combined with Inst. of Dis. of Chest) and Oct. fee, 40 gs., pt-time, 20 gs. Spec. 2-week course

is held in the autumn term fee, 20 gs. Specially selected postgrads are accepted for long-term trg, incl res methods fee, 120 gs p a. A limited number of honorary asst. registrar appts are available each yr for well-qualified grads from overseas who are in receipt of fellowships or grants from their own countries. Library, museum and res facilities

PUBLICATION. *Handbook*.

THE YEAR 1960

RETIREMENTS Dr W Evans (lectr., 1947-60)

RESIGNATIONS. Dr. G. W. Hayward (dean, 1949-60)

STUDENT NUMBERS, 1960-61 (See also 'Student Numbers', p 1075).

• Full-Time	Part-Time	Total
27 m, 3 w	74 m, 6 w.	110

- (e) INSTITUTE OF CHILD HEALTH (The Hospital for Sick Children, Great Ormond St., London, WC 1. Tel. Holborn 2196). Dean—G. H. Newns, MD, FRCP.

Founded 1945, and associated with The Hosp. for Sick Children, Queen Elizabeth Hosp for Children and postgrad. med sch at Hammer-smith Hosp. Approved for recog. as federated inst of the federation from 1948. Main objects are (a) to promote the study of all aspects of disease and its prevention in childhood, (b) to provide instructn in clin paediatrics and prevention of dis in childhood and in the basic med., surg and pathol. of children.

Tuition provided daily in 3 terms of 12 weeks each. Fees. 1 term, £26. 5s; 2 terms, £47. 5s.

Clin clerkships available for selected students. Students' common room and library provided.

PUBLICATIONS *Prospectus and Annual Report*

THE YEAR 1960

BUILDING APPEAL launched.

STUDENT NUMBERS, 1960-61 (See also 'Student Numbers', p 1075).

Full-Time	Part-Time	Total
118 m, 45 w.	37 m, 14 w	214

- (f) INSTITUTE OF DENTAL SURGERY (Eastman Dental Hospital, Gray's Inn Rd, London, WC 1. Tel. Terminus 7251). Dean and Dir. of Studies—Prof R. V. Bradlaw, CBE, MDS Durh, FRCS, FDSRCS

The inst is associated with the Eastman Dental Hosp., formed in 1948, and approved for recog as a federated inst of the federation from Oct 1951. In addn to trg by means of full- and pt-time appts. in the inst there are courses in orthodontics (full- and pt-time, up to 1 yr) and in periodontol., conservative dent., prosthetic dent., minor oral surg, children's dent., oral med. and oral pathol. (variable length, full- and pt-time). Refresher courses of 1 and 2 wks. duration arranged throughout yr for gen practitioners. Courses also held in conjunction with fac of dent surg of Royal Coll of Surgeons, particularly intended for candidates preparing for final exam for FDSRCS. These commence in Aprnl and

Oct (for approx 8 months), fee, £60; in Aprnl and Oct there are 8-wk. intensive courses, fee, £31 10s. Res and library facilities

PUBLICATION *Prospectus*.

THE YEAR 1960

NEW CHAIR. Personal chair oral med. (Dr. R. V. Bradlaw)

STUDENT NUMBERS, 1960-61. (See also 'Student Numbers', p 1075).

Full-Time	Part-Time	Total
77 m, 16 w	205 m., 24 w	322

- (g) INSTITUTE OF DERMATOLOGY (St. John's Hospital for Diseases of the Skin, Lisle St. (Leicester Sq.), London, WC 2. Tel. Gerrard 8383) Dean—B. F. Russell, MD, FRCP.

Inst formed in 1946 and approved for recog. as a federated inst of the federation from May 1959. It is associated with St. John's Hosp for Diseases of the Skin. Clin teaching in out-patient dept daily, and twice monthly at in-patient dept at Homerton. Fees for attendance on hosp practice, 75 gs for a yr., 25 gs for 1 term. Tutorials in clin dermatol and histopathol of the skin are given twice a week in term-time. The yr's lecture course commences in Oct and carries

on during univ terms until the end of June. During this period also there are, each week, clin. demonstrations, and a discussion of cases of sp interest to which full-time students are invited. There are facilities for study or instructn. in radiotherapy, biopsy technique and skin testing, biochem and pathol., incl. histopathol. and med. mycol., in which two subjects sp short courses are held. Courses in clin dermatol are also given for general practitioners. Advanced students can

apply for clin. and res. assistantships, the former of which are competitive. There is a museum of wax mouldages, a photographic dept. and library

PUBLICATION. *Prospectus*

THE YEAR 1960

NEW CHAIR Dermatol

BUILDING DEVELOPMENT Extension of animal house at Homerton

STUDENT NUMBERS, 1960-61. (See also 'Student Numbers', p. 1075)

Full-Time	Part-Time	Total
38 m, 4 w	74 m, 9 w.	125

- (h) INSTITUTE OF DISEASES OF THE CHEST (Brompton Hospital, London, S W 3. Tel: Flaxman 3707) Dean—J. R. Bignall, MD Camb, FRCP

The inst. was formed in 1946 and approved for recog as a federated inst of the federation from Oct 1955. It is associated with the hosps. for diseases of the chest (Brompton Hosp and the London Chest Hosp) Courses of instruct for postgrad students are arranged as follows. *Autumn term*, full-time course in tuberculosis, pt-time course in chest dis. *Spring term*, full-time and pt-time courses in chest dis. *Summer term*, full-time course in cardiopulmonary dis (in assocn. with the Inst of Cardiol.), pt-time course in chest dis Fees full-time courses, £40 per term, pt-time courses, £25. Whole-time courses in chest surg are conducted during 3 terms of 10 weeks each, beginning in Jan, Apr. and Oct They are intended as an introduction to thoracic, cardiac and oesophageal surg., fee,

£40 per term Pt-time instruct in radiol. of the chest for trainee radiologists only is given each term, fee, £20. Library, museum and res facilities

PUBLICATIONS. *Syllabus of Courses; Annual Report & Handbook, Brompton Hosp. Reports.*

THE YEAR 1960

RESIGNATIONS Dr. J. G. Scadding (dean—continuing as dir of studies)

STUDENT NUMBERS, 1960-61 (See also 'Student Numbers', p. 1075)

Full-Time	Part-Time	Total
88 m, 11 w	59 m, 2 w	160

- (i) INSTITUTE OF LARYNGOLOGY AND OTOTOLOGY (Royal National Throat, Nose and Ear Hospital, Gray's Inn Rd, London, W.C.1. Tel. Terminus 8855). Dean—J. C. Hogg, CVO, MA MB BChir Camb., FRCS.

The inst. is associated with the Royal National Throat, Nose and Ear Hosp in Gray's Inn Rd, London, W.C.1, and Golden Square, London, W.1, and was founded in 1945 for the trg of specialists and the prosecution of res. in otorhino-laryngol It was approved for recog as a federated inst of the federation in Jan 1949. In addn to the daily clin. teaching which goes on throughout the year (the fees for which are 9 gs. for 3 months or £21 for 12 months), the theoretical aspects of the specialty and of the basic scis on which it is founded are covered by a course of lectures and demonstrations held twice annually The course fees are . basic scis. (14 weeks), £25; intensive clin. lecture period (6 weeks), 13 gs; practical revision class (2 weeks), 6 gs An advanced revision course for sr. students lasting 2 weeks is also held twice yrly; fee, 10 gs Courses in sp. subjects, such as malignant diseases,

endoscopy, audiol., pathol and aural surg., are held several times annually. The inst is housed partly inside the hosp. and partly in adjoining accomm adapted for the purpose There are pathol. and anat museums, a library with reading and writing rooms, and students' common rooms Res labs are available

PUBLICATIONS. *Prospectus and Annual Report.*

THE YEAR 1960

RESIGNATIONS C. Gill-Carey (dean)

STUDENT NUMBERS, 1960-61 (See also 'Student Numbers', p. 1075)

Full-Time	Part-Time	Total
78 m, 1 w.	54 m, 2 w	135

- (j) INSTITUTE OF NEUROLOGY (National Hospital, Queen Square, London, W.C.1. Tel Terminus 3611). Dean—M. Kremer, MD BSc, FRCP

The inst. is a continuation of the med sch. associated with the National Hosp., Queen Square, where postgrad. clin teaching and res. have been carried on for past 100 yrs.; also asso-

ciated with the Hosp for Nervous Diseases, Maudsley. Clin teaching in neurol. and neuro-surg. continues throughout the yr., and is mainly by means of attendance on the hosp. practice. Fee,

£36 for 3 months, £70 for 6 months and £120 for 1 yr. Three courses are held annually, commencing in Oct., Jan and Apr., and are of 10 weeks' duration. Fee, £40. Ward rounds and out-patient teaching clinics throughout yr. Clin. demonstrations are held twice a week. There are 2 full-time courses in electro-encephalography, each of 6 mos.' duration, starting in Oct and April. Fee, £70. Res. labs., X-ray and photographic depts and library.

PUBLICATIONS *Prospectus and Annual Report*

THE YEAR 1960

STUDENT NUMBERS, 1960-61 (See also 'Student Numbers', p 1075)

Full-Time	Part-Time	Total
175 m., 15 w.	211 m., 28 w.	429

- (k) INSTITUTE OF OBSTETRICS AND GYNÆCOLOGY (The Chelsea Hospital for Women, Dovehouse St., London, S.W.3. Tel. Flaxman 9509) Dean—R. M. Feioze, MD, FRCS.

The inst. is associated with Queen Charlotte's Maternity Hosp., the Chelsea Hosp. for Women and the dept. of obstetrics & gynæcol. at Hammer-smith Hosp. It was formed in 1948, and was approved for recog. as a federated inst. of the federation from Oct 1949. It has 283 beds for obstet. and 176 for gynæcol. Trg. is mainly by means of courses of instructn., which include lectures and demonstrations held during 2 long terms only, commencing in Sept. and March, each term is of 13 weeks' duration. Fee, 50 gs. per term. An advanced revision course of 2 weeks' duration is held in June and Dec (fee, 16 gs.), and a week's course for general practitioners is held twice a yr. (fee, £5.5s.). There is provision for general practitioners with a sp. interest in obstet. and gynæcol. to attend for short periods. Resident house appts. and registrarships are

advertised and filled by open competition. They afford increasing responsibility for the care of patients and opportunities for original investigation, under supervision. Res. and museum facilities.

PUBLICATIONS *Prospectus and Three-year Report (1955 to 1958)*

THE YEAR 1960

RETIREMENTS F. Cook (dean, 1957-60)

STUDENT NUMBERS, 1960-61 (See also 'Student Numbers', p 1075)

Full-Time	Part-Time	Total
92 m., 42 w.	108 m., 32 w.	274

- (l) INSTITUTE OF OPHTHALMOLOGY (Judd St., London, W.C.1. Tel. Euston 9621). Dean—T. K. Lyle, CBE, MA MD MChir Camb, MRCP, FRCS.

The inst. is associated with Moorfields Eye Hosp. and has developed from the med. school of the Royal London Ophthalmic (Moorfields) Hosp., where clin. teaching and res. have been carried on since its estab. in 1811. It was approved as a federated inst. of the federation in June 1949. In addn. to teaching by means of hosp. practice, a lecture and tutorial course lasting 9 months (divided into 2 terms) is held twice a year, commencing in March and Oct. Part I consists of anat., embryol., histol., physiol., optics and elementary clin. instructn. Part II comprises bacteriol., pathol., operative surg., med. ophthalmol. and all aspects of ophthalmic dis. Fee for each term, £31.10s. Part-time revision courses in the basic scis. and clin. teaching and lectures are given at a higher level for advanced students. A course in slit lamp microscopy is held each term.

Courses of 1 week's duration are held during the terms commencing in March or Oct. in orthoptics (fee, 5 gs.) and contact lens practice (fee, 10 gs.). Labs. for bacteriol., histol., biochem. and res. in all fields associated with the physiol. and pathol. of the eye and vision are available. There are also library and museum facilities.

PUBLICATIONS *Prospectus and Annual Report*

THE YEAR 1960

STUDENT NUMBERS, 1960-61 (See also 'Student Numbers', p 1075)

Full-Time	Part-Time	Total
127 m., 22 w.	93 m., 10 w.	252

- (m) INSTITUTE OF ORTHOPÆDICS (Royal National Orthopaedic Hospital, Great Portland St., London, W.1. Tel. Euston 5070). Dean—H. J. Burrows, MA MD Camb., FRCS, FRACS.

The inst. was formed in 1946, and is associated with the Royal National Orthopaedic Hosp. Approved for recog. as a federated inst. of the

federation from Jan 1951. The practice of the town section and the country section at Stanmore is open to postgrad. students. This includes

weekly clin. discussions and monthly teaching ward rounds. There is a programme of evg conferences during univ. terms, and approx. 5 short advanced courses are held annually. Fee, 3 gs. to 10 gs. Week-end courses (without fee) are held for invited consultants and registrars. Sp. lectures on Friday evgs. in winter. Fee, 3 gs. There is an annual fortnight's course for continental surgeons. Students should have previous surg. (rg. and experience. Intensive educn. and trg is provided for holders of jr hosp. posts, and selected postgrads, may go on to inst. appts.

with sp provision for res. Library and museum facilities

PUBLICATION. *Prospectus*.

THE YEAR 1960

STUDENT NUMBERS, 1960-61. (See also 'Student Numbers', p 1075)

Full-Time	Part-Time	Total
69 m, 9 w	63 m, 2 w.	143

- (n) INSTITUTE OF PSYCHIATRY (Maudsley Hospital, Denmark Hill, London, S E.5. Tel. Rodney 6333) Dean—D L Davies, MA DM Oxon

Associated with the Maudsley Hosp, Denmark Hill, and the Bethlem Royal Hosp. Admitted as a sch. of the univ in May 1924, and approved for recog as a federated inst. of the federation in March 1948.

Psychiatric trg based on responsible hosp. duties under supervision given throughout yr., suitable for doctors studying for academic postgrad dipl in psychol med, and comprising clin. instructn supplemented by lecture and demonstration courses in each term. Fees: full course, £28 7s. for 1 term, £80 2s. for 1 yr, lecture courses, £12 12s for 1 term, £36 for 1 yr. Hosp jr staff appts. also available. There are a few vacancies in sp 6-monthly courses in child psychiatry (fee, £38 17s) Hons. grads in psychol are accepted for a yr.'s course in abnormal psychol. for postgrad. dipl in psychol (fee, £53). The neuropathol, biochem, psychol, electro-physical and exper neuro-endocrinol labs. offer

facilities for res and study for higher degrees. Library takes relevant periodicals, in various langs

PUBLICATIONS. *Annual Report, Syllabus of Courses, Maudsley Monographs*.

THE YEAR 1960

PRINCIPAL BENEFACTIONS. £21,400, res grants from US Service Depts., National Spastics Soc., Home Office, Nat Inst of Health (U.S.A.), Foundn's Fund for Res in Psychiatry (U.S.A.), Muscular Dystrophy Assocn., Soc for Invest Human Ecol., Royal Soc.

RESIGNATIONS. Dr D Hill, apptd to chair of psych, Middlesex Hosp Med. Sch.

STUDENT NUMBERS, 1960-61. (See also 'Student Numbers', p 1075).

Full-Time	Part-Time	Total
195 m, 52 w	66 m, 18 w	331

- (o) INSTITUTE OF UROLOGY (10 Henrietta St, London, W C.2 Tel. Temple Bar 5361) Dean—A R C Higham, TD, MB BS, FRCS

The inst., which was formed in 1946 and approved for recog. as a federated inst. of the federation in May 1957, is associated with St. Peter's, St. Paul's and St. Philip's Hosps. Comprehensive instructn. given in wards, out-patient depts., operating theatres, labs., etc., throughout yr., fee, 10 gs. per month. Week-end courses for higher exam candidates are held at frequent intervals, fee, 5 gs and, by invitation to sr registrars and jr. consultants, no fee. Demonstrations in co-operation with Assocn. of Clin Pathologists from time to time. Lectures and demonstrations of clin. and lab. material are given in venereal diseases, fee, 12 gs per month. Week-end courses in co-operation with members of the Med Soc for Study of Venereal Diseases, at intervals, fee, 5 gs per course. In winter

months a series of lecture discussions on urol. subjects of interest to whole profession held on Wed. evgs at 5 p m; no fee. Also clin evgs on selected subjects, by invitation, no fee. Limited numbers of clin. assts. apptd to individual surgeons for personal tuition from time to time, and also res. assts. Library and reading-room.

PUBLICATION. *Prospectus*

THE YEAR 1960

STUDENT NUMBERS, 1960-61 (See also 'Student Numbers', p. 1075)

Full-Time	Part-Time	Total
15 m, — w	194 m, 9 w.	218

[Information compiled as at 22/8/61]

LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE

Incorporating the **Ross Institute**

Founded 1924

Postal Address : Keppel Street (Gower Street), London, W C 1, England

Cables and Telegrams Hygower, London, W C 1

Telephones . Museum 3041 ; Langham 7621

PATRON—H R.H. THE DUKE OF EDINBURGH, KG, KT, GMBE, Hon LLD *Wales & Edin*, Hon DSc *Delhi*, FRS

CHAIRMAN OF THE COURT OF GOVERNORS—SIR COSMO PARKINSON, GCMG, KCB, OBE, MA *Oxon*

CHAIRMAN OF THE BOARD OF MANAGEMENT—SIR ARCHIBALD GRAY, KCVO, CBE, TD, MD *Hon*. LLD, FRCP, FRCS

DEAN—E. T. C. SPOONER, MA MD *Camb.*

FINANCE OFFICER—L. G. PONSFORD, LLB

LIBRARIAN—V. J. GLANVILLE

REGISTRAR—MRS. M. GLADYS YOUNG

APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time]

Applied Physiology		Medical Mycology , see Bacteriol	
Crowden, G. P., OBE, TD, DSc, MRCP	Prof	Medical Statistics	
Thomson, M. L., BSc MB ChB <i>Glas.</i> , PhD	Reader		
Bacteriology and Immunology		Reid, D. D., MD <i>Aberd.</i> , PhD DSc, MRCP	(Epidemiol.) Prof.
Evans, D. G., DSc PhD <i>Mane</i> , FRS	Prof.	Armitage, P., MA <i>Camb.</i> , PhD	Prof
Fulton, F., DM <i>Oxon</i>	(Virol.) Prof.	Irwin, J. O., MA ScD <i>Camb.</i> , DSc	†Leect.
Smith, C. E. G., MD <i>St And</i>	Sr Lectr.	Martin, W. J., PhD DSc	†Lectr
Biochemistry		Occupational Health	
Birkshaw, J. H., DSc <i>Leeds</i> , FRIC	Prof	Schilling, R. S. F., MD DPH	Prof.
....	Reader	Wood, C. H., SM <i>Harv.</i> , MB BS DPH	Si. Lectr.
Clinical Tropical Medicine		Parasitology and Helminthology	
Woodruff, A. W., MD <i>Durh</i> , PhD, FRCP	Wellcome Prof	Garnham, P. C. C., MD DSc DPH	Prof.
Bell, S., MD <i>Durh.</i> , MRCPed	Sr. Lectr.	Buckley, J. J. C., DSc <i>Dub.</i>	Courtauld Prof.
Entomology		Le Roux, P. L., DSc <i>Edin.</i>	Reader
Bertram, D. S., PhD <i>Glas.</i>	Prof.	Ormerod, W. E., BA BM BCh <i>Oxon</i>	Sr Lectr.
Busvine, J. R., PhD DSc	Reader	Physiology , see Appl. Physiol	
Laurence, B. R., BSc PhD	Lectr.	Public Health	
Human Nutrition		Walton, W. S., GM, MD BHy DPH <i>Durh.</i>	
Platt, B. S., CMG, MSc MB ChB PhD <i>Leeds</i>	Prof		

U.K.—ENGLAND (LONDON)

Hinds, S W, MD	Reader	Tropical Hygiene, Ross Institute of	
Maule, H. G, MA <i>Camb</i> , PhD	St. Lectr.	Macdonald, G., CMG, MD DTM <i>Lev</i> ,	
Don, G G, JP	St Lectr	DPH, FRCP	Prof, Dir
Jefferys, Mrs. Margot, BSc(Econ)	Lectr	Waddy, B B., DM <i>Oxon.</i> , DPH	Reader
Acheson, R. M. MA <i>Dub</i> . DM <i>Oxon</i>	†Lectr.	Davidson, G, BSc	Sr Lectr

ADMINISTRATIVE AND OTHER STAFF

Accountant · F. J. Ollive Personal Services Officer Kathleen M Shaw, MBE.

GENERAL INFORMATION

The sch. represents the union of the Lond Sch of Trop Med., which had operated since 1899, with the univ. teaching posts for the dipl in pub. health. In 1934 the Ross Inst of Trop Hyg (founded 1926) was incorporated with the sch. The sch. was built and equipped with \$2,000,000 provided by the Rockefeller Foundation on the understanding that the British govt would make adequate grants for staffing and maintenance. Charter of incorporation secured in 1924 and supplemental charters in 1931, 1934 and 1947. The sch. is recog. by the univ. in the facs of sci and med.

CONSTITUTION The charter of incorporation provides for the constitution of a court of governors, a bd of management (the governing body of the sch.) and a sch. council representative of the teaching staff.

INCOME (1959-60) Total income, £310,987 (interest on investments and bank deposits, 4.2 per cent., donations and subscriptions, 5.7 per cent., univ. court grant, 72.8 per cent., students' fees, 4.3 per cent., contributions for services rendered, 0.9 per cent., res. grants and contracts, 11.4 per cent., other sources, 0.7 per cent.)

DEPARTMENTS 11 main depts. There are also a sub-dept of med. mycol., a library, and, at Winches Farm, St Albans, a field res. and animal breeding str. Dept of clin trop med works in close assoc. with Hosp for Trop Diseases, 4 St Pancras Way, NW 1.

LOCATION All courses are given at premises in Keppel St. which have excellent labs., res. and class-rooms and lecture-theatres.

LIBRARY 42,000 bound vols. and over 50,000 unbound pamphlets, 360 books of 17th-18th cents on trop. diseases and hyg., and special Reece collection of 340 vols. on smallpox and vaccination; series of annual med and sanitary reports from various countries in the Commonwealth.

POSTGRADUATE DIPLOMA AND CERTIFICATE COURSES.* Courses are offered leading to the following qualifs. of the Univ of London and/or the conjoint bd of the Royal Coll of Physicians & Royal Coll. of Surgeons.

Dipl. in Pub. Health (Lond) course for qualified med. practitioners, 9 mos from Oct. Scholcs available. Fee 70 gs.

Dipl in Indust Health (R C P & S) course, whole-time, 11 wks from Oct. to Dec., for those who have already taken a DPH course. It will also be available to registered med. practitioners who require an intensive trg in the practice of indust med. Applicants to be recd. not later than preceding 1st April. No of places strictly limited. Fee 30 gs.

Dipl in Bacteriol (Lond) course for grads. in med, sci, vet sci, pharm, and suitably qualified non-grads, 9 mos from Oct. Applicants to be recd. not later than preceding 1st March. No of places strictly limited. Fee 70 gs.

Dipl in Trop Med & Hyg (R C P & S) course for qualified med. practitioners, 5 mos., commencing Oct and March. Grant for payment or partial payment of tuition fees available. Fee 40 gs.

Cert and Dipl in Trop. Med & Hyg (Lond.) course for qualified med. practitioners, 9 mos from Oct. Candidates for final dipl course must have had 12 mos. experience of med practice in a trop. country. Fee 70 gs for whole course, 40 gs for pt. I only.

Cert and Dipl in Applied Parasitol & Entomol (Lond) course for those with acceptable qualifs in med, vet med, vet sci, or sci, 9 mos from Oct. Applicants to be recd. not later than preceding 1st April. No of places strictly limited. Fee 70 gs. for whole course; 40 gs for pt. I only.

Exemptions. There are interrelated exemptions between the DTM&H (Lond.), the DTM&H (R C P & S) and the DAP&E (Lond). Details from registrar of the sch.

OTHER COURSES*, not leading to a qualif.

Courses in Occupational Hygiene An academic course in occupnl hyg. will start in Oct each yr. and last for 9 mos. Fee 70 gs. If numbers permit, an introductory course in occupnl hyg. will be held from Oct 2 to Dec 15, 1961. Fee 30 gs. A course on dust and pulmonary dis will be held from Feb 5 to March 2, 1962. Fee 15 gs. A course on engin control of occupnl hazards will be held from May 28 to June 22, 1962. Fee 15 gs. All courses are full-time and

* In 1962-63 and following yrs, fees for courses will be increased by approx. 20 per cent.

are open to grads, particularly in phys, chem, engin or med, or, in special circumstances, to non-grads

Short Course in Statistical Methods applied to Medicine & Epidemiology Begins in Jan each yr and lasts for approx 4 mos. Lectures and practical demonstrations on 2 whole days wkly. Persons without a med. qualif eligible to apply. Applies to be read not later than preceding 1st Nov. Fee: 15 gs

Short Course in Medical Administration. Of sp interest to exec med officers of regional hosp bds and others in admin. field of pub. health. Non-med. persons eligible to apply. Commences end of April each yr. and lasts 10 wks. Fee: 30 gs

Short Course in Environmental Control of 10 wks' duration. Held once a yr, commencing about the beginning of Oct. Intended primarily for health inspectors from abroad. Fee: 26 gs

Course in Trop Hyg for Laymen, for non-medical men and women proceeding to tropics. Held once a yr and lasts about 5 days. No fee

Course in Trop Nutrition For those who would find a knowledge of trop nutrition useful in their work. Held once a yr and lasts for 5 days. No fee

RESEARCH DEGREES. Facilities for res for MSc and PhD. Lab fee, 30 gs p a

A SCHOOL ASSOCIATION of old students has been formed. Members regularly receive *Annual Report*

STUDENT HEALTH SERVICE. The sch.'s students may join the University Coll student health assocn. Benefits incl clin consultations and psychiatric, ophthalmic and dent treatment.

THE BUREAU OF HYGIENE AND TROPICAL DISEASES, governed by a cttee apptd by the sec. of state for the colonies, is housed in sch premises and publishes monthly the *Bulletin of Hygiene* and *The Tropical Diseases Bulletin*. Annual sub to each, £5

PUBLICATIONS. *Memoir Series*, *Annual Report*, *annual Syllabus of Courses*; *Journal of Helminthology*, 4 pts a yr (vol 35), price 50s a vol.

THE YEAR 1960

PRINCIPAL BENEFACTIONS. Residuary bequests under wills of the late J R O Richardson and Mrs L M Richardson of about £12,000 to sch's gen funds

RESIGNATIONS. Dr G R Wadsworth, apptd as nutrition adviser to W.H.O., W Pacific; Miss M. W Grant; Dr E R Nye, to Otago Med. Sch; Mrs M. W McGrath, to Hammersmith Hosp; Dr R Lamson, to C.M.R.C., British Honduras; Dr P Chaplen, to May & Baker Ltd; Mrs Elinor W Meynell, to St. Mary's Hosp

DEATHS. Sir James Kilpatrick (dean)

Distribution by Faculties. *Med*, 201; *sci*, 41. Total 242

Included in the figures above are —

Postgraduate students working for a higher degree, 37

Students from other countries, 153 (Countries from which largest numbers came: India, 30; Pakistan, 21)

DEGREES AWARDED (by Univ. of London) (1959-60). PhD (all facs), 9; MSc (all facs), 4

DIPLOMAS AWARDED (1959-60). DAP&E, 10; DipBact, 11; DPH, 61; DTM&H (Lond), 2; DTM&H (R.C.P.&S.), 75; DIH (R.C.P.&S.), 15

CERTIFICATES AWARDED (1959-60). CAP&E, 11; CTM&H, 2

Statistics

	STUDENT NUMBERS, 1960-61 *	
	Full-Session	Half-Session
Men	110	102
Women	16	14
Total	126	116

* These figures relate only to students attending courses leading to a qualif. The total number of students during the academic yr, including those attending courses of less than 3 wks, was 581 (420 m, 161 w)

[Information compiled as at Aug. 1961]

LISTER INSTITUTE OF PREVENTIVE MEDICINE

Founded 1891

Postal Address: Chelsea Bridge Road, London, S.W.1, England

Cables and Telegrams Bacteriology, Knights, London

Telephone: Sloane 2181

CHAIRMAN OF GOVERNING BODY—Sir HENRY H DALE, OM, GBE, MD, FRCP, FRS

DIRECTOR—Professor A A MILES, CBE, MA MD Camb, FRCP, FRS

SECRETARY—S. A. WHITE

APPOINTED AND RECOGNIZED TEACHERS

Dolby, D. E., PhD	(Biochem.)	Morgan, W. T. J., DSc PhD, FRIC, FRS	(Biochem.) Prof
Kekwick, R. A., DSc	(Chem Biophys) Reader	Mourant, A. E., MA DPhil DM Oxon,	(Pathol)
Macfarlane, Marjorie G., DSc PhD	(Biochem.)	MRCP	(Bacteriol.)
Maycock, W. d'A., MBE, MD McG.	(Pathol.)	Standfast, A. F. B., MA DipBact	(Microbiol)
McClean, D., MB BS	(Bacteriol)	Stocker, B. A. D., MD	(Pathol)
Miles, A. A., CBE, MA MD Camb,		Weitz, B. G. F.	(Chem.)
FRCP	(Exper Pathol) Prof.	Whelan, W. J., DSc PhD	

GENERAL INFORMATION

Founded in 1891 for res into causation, prevention and treatment of diseases of men and animals. Not in receipt of U G C grants Limited accomm. available for approved res by students of

both sexes, usually without fees Res studentships advertised as vacancies occur

LIBRARY. About 10,000 vols, primarily for use of inst workers

THE YEAR 1960

PRINCIPAL BENEFACTIONS Arthur Guinness Son & Co Ltd, £14,000 for res in Guinness-Lister res. unit.

Distribution by Faculties Med., 1, sci, 10
Total: 11

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	7	—
Women . .	4	—
Total . .	11	—

Included in the figures above are —

Postgraduate students, 11.
New admissions, 2

DEGREES AWARDED (by Univ. of London)
(1959-60). PhD, 9.

INSTITUTIONS WITH RECOGNIZED TEACHERS

[These are public educn instns not in receipt of U.G.C. grants (see p. 952) at which the univ. has recognized certain teachers giving courses for students studying for degrees or dipl. of the univ. as internal students. Except in the case of Goldsmiths' Coll., this is the only connecting link between the instns and the univ.]

[Information compiled as at 18/8/61]

[(a) Principal, (b) subjects in which courses are given by recognized teachers, (c) number of full-time students studying for degrees or dipl. as internal students of the univ. (session 1959-60)*]

1 UNIVERSITY OF LONDON. GOLD-SMITHS' COLLEGE, New Cross, London, S E 14 (tel. Tideway 2266) Incorporated in the univ. *Warden, and Principal of the Training Dept.*—D R Chesterman, MSc PhD; *Registrar*—G C Wood, OBE, MA (c) 43.

Training Department Vice-Principals—Margery K. James, MA BLitt DPhil Oxon, and E. A. Wheeler, OBE, MSc. *Recog.* by Ministry of Educn. as a trg. coll. Ordinary course, 2 yrs., course for science teachers, 3 yrs.; for BA (gen.) or BSc (gen.) degree, 4 yrs., postgrad course, 1 yr. *Lectrs.*—35. *Hostels* provide accomm. for nearly all the women and some of the men students. For recog. teachers *see below* (Educn., Geog., Music).

2 BATTERSEA COLLEGE OF TECHNOLOGY, Battersea Park Rd., London, S.W. 11 (tel. Macaulay 1031). (a) D M A. Leggett, MA PhD DSc (b) Chem., Engin. (Civil, Electr., Mech. and Chem.), Maths., Metall., Music, Phys. (c) 1098.

3 CHELSEA COLLEGE OF SCIENCE AND TECHNOLOGY, Manresa Rd., Chelsea, London, S.W. 3 (tel. Flaxman 5747). (a) N M. Lightfoot, MA. (b) Biol., Bot., Chem., Geol., Maths., Pharm., Phys., Physiol., Zool. (c) 1072.

4 COLLEGE OF ESTATE MANAGEMENT, St Alban's Grove, London, W 8 (tel. Western 1546). (a) R. Jardine Brown, LLB MA Glas, DLitt Edn. (b) Subjects for the degree in estate management (c) 207.

5 EAST MALLING RESEARCH STATION, East Malling, Kent (tel. : West Malling

3033). *Director*—F R. Tubbs, CBE, DIC, MSc PhD, FLS. (b) Appl. Bot., Pomol., Statistics, Plant Physiol., Chem. (in relation to fruit-growing), Plant Pathol., Entomol. For postgrad res. students only. (c) 9.

6 JEWS' COLLEGE, 11 Montagu Place, London, W 1 (tel. Paddington 2041-2). (a) *Actg. Principal*—The Chief Rabbi, the Very Rev Dr I. Brodie (b) Hebrew, Semitics (c) 23.

7. MARIA GREY COLLEGE, 300 St Margaret's Rd., Twickenham, 11 The Avenue, Brondesbury, London, N W 6 (tel. : Popesgrove 2660 and Willesden 4121). (a) Beatrice E. Deayton, MA. (b) Educn. (c) 47.

8 NATIONAL INSTITUTE FOR MEDICAL RESEARCH, The Ridgeway, Mill Hill, London, N W 7 (tel. : Mill Hill 3666). Controlled by the Med. Res. Council. *Director*—Sir Charles Harington, PhD Edm., MA ScD Camb., FRS. (b) Bacteriol., Chem., Biochem., Chem. Pathol., Immunol. and Hyg. For res. students only (c) 13.

9. NORTHAMPTON COLLEGE OF ADVANCED TECHNOLOGY, St John St., London, E.C. 1 (tel. : Clerkenwell 7521-5). (a) J. S. Tut, PhD Glas, BSc(Eng) (b) Engin. (Civil, Mech., Electr.), Maths., Metall. (c) 640.

10 NORTHERN POLYTECHNIC, Holloway Rd., London, N. 7 (tel. : North 1686). (a) J. Leicester, MSc MScTech PhD, FRIC. (b) Bot., Chem., Geol., Zool., Maths., Phys. (c) 469.

11 ROTHAMSTED EXPERIMENTAL STATION, Harpenden, Herts. (tel. : Harpenden

* Only the totals of those students pursuing degree or dipl. courses as internal students of the Univ. of London are given. The instns. also provide other courses.

4671) *Director*—F. C. Bawden, MA *Camb*, FRS (b) Sci (in its applic to agric) For res. students only (c) 31.

12 ROYAL ACADEMY OF MUSIC, Marylebone Rd., London, NW 1 (tel. Welbeck 5461) (a) Sir Thomas Armstrong, MA DMus, FRCM (b) All branches of music, theoretical and practical (c) 16

13 ROYAL COLLEGE OF MUSIC, Prince Consort Rd., S Kensington, London, SW 7 (tel. Kensington 3643) *Director*—K. Falkner, FRCM. (b) All music subjects. (c) 10

14 SIR JOHN CASS COLLEGE, Jewry St., Aldgate, London, E C 3 (tel. Royal 8321). (a) A M Ward, PhD DSc, FRIC. (b) Bot., Chem., Geol., Maths., Metall., Phys (c) 512

15 TRINITY COLLEGE OF MUSIC, Mandeville Place, London, W 1 (tel. Welbeck 5773). (a) W Greenhouse Alt, MusD. (b) All subjects for the musical and arts (music) degrees of London and other univs (c) 12

16 WEST HAM COLLEGE OF TECHNOLOGY, Romford Rd., Stratford, London, E. 15 (tel. Maryland 6075). (a) G Bulmer, MA PhD, FRIC. (b) Chem., Engin (Chem., Civil, Electr., Mech.), Maths., Phys. (c) 202.

17. WOOLWICH POLYTECHNIC, Thomas St., Woolwich, London, S E. 18 (tel. Woolwich 2856). (a) H Heywood, DSc(Eng) (b) Engin (Civil, Electr. and Mech.), Maths., Phys., Chem (c) 453

RECOGNIZED TEACHERS

(The number in brackets after each name indicates the instn listed on p 1085 or p 1086 to which the teacher is attached)

Aeronautics

Tokaty, G A., DEng *Moscow*, PhD
DAeSc *U.S.S.R.*

Ross, W A, PhD (3)
Salmon, J E, PhD (2)
Smith, C. G., BSc PhD, FRIC (10)
Vahrman, M., PhD, FRIC (9)
Vogel, A. I., DIC, DSc (17)
Walker, J., DSc *Oxon* (8)
Ward, A. M., PhD DSc, FRIC (14)
Wyvill, P. L., PhD (10)

Biochemistry

Harrington, Sir Charles, PhD *Edm*, MA
ScD *Camb*, FRS (8)
Pine, N W., MA, FRS (11)
Short, Eileen I., BPharm PhD (3)
Work, T. S., DSc (8)

Crystallography

Lewis, D., MSc PhD (2)

Botany

Berkeley, C. J. A., BSc (3)
Mar, C. L., DIC, BSc PhD (14)
Muir, A., PhD *Edm.*, BSc (11)
Tubbs, F. R., CBE, DIC, MSc PhD, FLS (5)
Turner, E. R., MA PhD *Camb*. (3)
Watson, D. J., PhD *Camb*. (11)

Education

Kaye, M., MA PhD (1)

Engineering, Chemical

Portalski, S., PhD (2)
Tailby, S. R., PhD (2)
Thomas, W. J., PhD, FRIC (2)

Chemistry

Allen, F. L., MSc PhD, FRIC (16)
Arcus, C. L., PhD DSc (2)
Beckett, A. H., PhD DSc (3)
Casy, A. F., PhD (3)
Cumper, C. W. N., PhD *Camb* (17)
Dippy, J. F. J., DSc *Wales* (3)
Drakeley, T. J., CBE, DSc PhD, FRIC (10)
Fimar, I. L., PhD (10)
Gerrard, W., DSc PhD, FRIC, FIM (10)
Griffiths, V. S., PhD (2)
Houston, A. H. J., MSc PhD (2)
Hughes, S. R. C., PhD (3)
Irving, R. J., MSc *Adel*, PhD *Leeds* (2)
James, A. M., DPhil *Oxon* (3)
Jeffery, G. H., PhD (17)
King, H. J. S., PhD DSc, FRIC (10)
Lee, W. H., PhD, FRIC (10)
Lundsey, A. J., DSc PhD, FRIC (14)
McGhie, J. F., BSc PhD (3)
Powell, D. B., PhD (14)

Engineering, Civil and Mechanical

Beaufoy, L. A., PhD (4)
Carnegie, W., PhD *Birm.* (2)
Franklin, H. W., MA *Camb*. (9)
Heywood, H., DSc(Eng) (17)
Levy, J. C., MS III, BSc(Eng) (9)
Oakden, J. C., MA *Camb*, MScTech *Manc*. (9)
Oliver, H. C., BSc(Eng) (16)
Robertson, S. A., BSc(Eng) BCom (2)
Scott, F. C., BSc(Eng) (9)
Wajda, R. L., DipIng *Lwow* (2)
Walker, J., MSc *Manc* (17)

Engineering, Electrical

Freeman, G. F., MSc(Eng) (17)
House, H., PhD (9)
Lovering, W. F., MSc *Birm* (2)
Mann, H. C., BSc(Eng) (2)
Ream, N., BA *Camb* (2)

- Soper, P F, PhD (9)
 Tait, J S, PhD *Glas*, BSc(Eng) (9)
 Widdis, F C, BSc(Eng) (9)
- Entomology**
 Massee, A M, OBE, DSc (5)
 Potter, C, DIC, PhD DSc (11)
- Estate Management**
 Adkin, B C., MA *Camb.*, BSc (4)
 (Agric. & For) (4)
 Burke, G L, MC, MSc (4)
 (Town & Country Planning) (4)
 Chapman, D. H. (4)
 Lawrance, D. M., BSc (4)
 (Engl. Law relating to Land) (4)
- Geology**
 Fleet, W F, MSc PhD (3)
 Prentice, J E, PhD (14)
 Smith, W E, MSc PhD (3)
- Horticulture**
 Rogers, W. S., MA *Camb.*, DSc (5)
- Law**
 West, W A, LL.M (4)
- Mathematics**
 Arscoft, F. M., MSc PhD (2)
 Davidson, W, MSc PhD (14)
 Geary, A., MA *Camb.*, MSc (9)
 Gillies, A W, PhD (9)
 Godfrey, D E R, MSc PhD (17)
 Green, H. F, MSc PhD (14)
 Ludlam, A E., MSc *Birm* (3)
 Martin, E. S., BSc PhD (10)
 Nutkins, Mary A., MSc PhD (10)
 Spain, B., MA MSc *Dub.*, PhD *Edin* (14)
 Stein, Elise, PhD *Vienna* (3)
 Tatchell, J. B., PhD (3)
 Varnavides, P L., PhD (3)
- Metallurgy**
 Derry, L. W., BSc *Birm*, MScTech *Mane.* (2)
 Houseman, D. H., MA MScTech *Sheff.*, PhD *Camb.* (14)
 Kingswood, V S., MSc(Eng) (2)
 Shreir, L L., PhD (2)
- Music**
 Andrews, H K, DMus (13)
 Brockless, B G, BMus (2)
 Coates, H J, MA *Camb.*, PhD, (15)
 Cooke, A A., BA MusD *Camb* (15)
 Durrant, F T, BMus *Durh.*, DMus, FRCO (12)
 Gipps, Ruth, DMus *Durh* (15)
 Jacob, G., DMus, FRCM (13)
- Latham, P M. S., MA BMus *Oxon* (12)
 Lloyd Webber, W. S., DMus, FRCO (13)
 Mews, E. D K, DMus, FRCO (15)
 Moule-Evans, D., DMus *Oxon* (13)
 Orrey, L G., BMus *Durh.*, FRCO (1)
 Pritchard, A. J., DMus *Durh.* (12)
 Regan, L W A, BMus *Oxon*, FRCO (12)
 Sowerbutts, J A., BMus, FRCO (12)
 Thiman, E H, DMus (12)
 Watson, S., MA DMus *Oxon* (13)
- Pharmaceutical Chemistry**
 Harper, N J., MSc *Belf*, PhD (3)
- Pharmaceutics**
 Bean, H. S., PhD (3)
 Carless, J E., BPharm MSc PhD *Mane* (3)
- Physics**
 Barton, J C., PhD (10)
 Bate, A. E., PhD MSc, FIP (16)
 Caffyn, J E., BSc *R'dg.* (9)
 Donovan, B., PhD (10)
 Elton, L R B, MA *Camb.*, PhD (2)
 Freeman, L. J., DIC, BSc PhD (3)
 George, W H., MSc PhD (3)
 Humphry, R H, MSc *Birm.*, FIP (14)
 Keohane, K W., PhD *Brist*, FIP (3)
 Longhurst, R S., PhD (3)
 Pillow, Marjorie E., BSc PhD (10)
 Smith, D H., PhD (17)
 Suddaby, A., MSc PhD (14)
- Physiology and Pharmacology**
 Edholm, O G, MB BS BSc (8)
 Feldberg, W S., MA *Camb.*, MD *Berl.*, FRs (8)
 Lockett, Mary F., PhD *Camb.*, MD (3)
- Plant Pathology**
 Bawden, F. C., MA *Camb.*, FRs (11)
 Harris, R V., DSc (5)
- Semitic Languages**
 Wieder, N, DPhil *Wurzbug* (6)
 Zimmels, H. J., DrPhil *Vienna* (6)
- Statistics**
 Hoblyn, T N, OBE, DipHort (5)
 Yates, F., ScD *Camb.*, FRs (11)
- Zoology**
 Brown, Eleanor M, BSc PhD (3)
 Butler, C G, MA PhD *Camb.* (11)
 Etherington, D., MSc (10)
 Hentschel, C. C., MSc (3)
 Rzóńska, J., DPhil *Poznan* (14)
 Sutton, Muriel F., PhD (3)

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LIBRARIAN—M. TYSON, MA PhD

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[† = Part-Time]

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Taylor, R. Y., BA(Adman) † Lectr
Hodge, Margaret A. T., BA *Lond.*, FCA Lectr
Bailey, F. A., FCA Lectr
Jones, B. A., BA(Com) † Asst Lectr

Moore, G. H., MA *Camb* (Amer. Lat.) Sr Lectr
Jones, M. A., MA DPhil *Oxon*
(on leave) (Amer. Hist. & Instns.) Lectr.
Sheehan, D., BA *Duke*, MA PhD *Col.* Lectr
Temperley, H. R., BA *Oxon*, MA *Yale*
Asst Lectr

Adult Education, see Education

Agricultural Economics

Thomas, W. J., MSc *Wales* Reader
Fletcher, T. W., MSc *Leeds* Lectr.
Furness, G. W., MSc *Leeds* Lectr.
Gardner, T. W., PhD *R'dg.*, MA(Com) Lectr.
Kempinski, T., MA *Camb.* Lectr.
Marks, M., MA *Sheff.* Lectr.
Perkins, R. J., BA *N. Staffs.*, MA(Econ) Asst Lectr

Cowling, K. G., BScAgric *Lond.* Asst Lectr

American Studies

Cunliffe, M. F., MA BLitt *Oxon*
(Amer. Hist. & Instns.) Prof.
Potter, A. M., MA *Wesleyan (Conn.)*,
PhD *Col.* (Govt.) Sr Lectr.

Anatomy and Histology

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Cooper, Eugene R. A., DSc MD
(Histol.) Reader
Patterson, E. L., BSc MD (Anat.) Sr. Lectr.
Ashley, G. T., BSc MD (Anat.) Lectr.
Gray, E. D. (see also Radiol.) (Radiol. A) Lectr.
Dixon, A. D., BSc MDS *Belf.*, PhD
(A. for Dental Students) † Lectr.
Cregan, J. C. F., MB BS *Lond.*, FRCS
(Appl. A.) Lectr.
Kirkman, N. F., MD, FRCS (Appl. A) † Lectr.
Nicholson, W. A. B., BSc MB ChB,
FRCS (Appl. A) † Lectr.
Torr, J. B. D., MD Lectr.
Bulmer, D., MA MD *Camb.* (Anat.) Lectr.
Williams, T. H., PhD *Wales*, MB ChB
(Exper. Neurol.) Lectr.

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Fisher, A. W. F., BSc MB ChB Asst Lectr
 Bagel, S., BA MB BCh BAO *Dub* Asst Lectr
 Peach, R., MSc PhD (Biophys) Asst Lectr
 Schofield, W. N., BSc MB BCh *Wales* Demr
 Sutherland, Sheila D., MB ChB Demr
 McLean, J. M., MB BS *Durh* Demr
 Hughes, T., BSc MB ChB Demr
 Barabás, A., MB ChB Demr

Arabic, see Semitic Studies

Architecture

Cordingley, R. A., MA, FRIBA Prof., Dir of Sch
 Buttle, D., MA PhD DipArch DipTP Sr. Lectr
 Thornley, D. G., BA Sr. Lectr
 Wood-Jones, R. B., BArch MA *Liv.*, PhD, FSA Sr. Lectr.
 Marsden, T. L., MA PhD DipTP Lectr
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 Jenkins, F. I., BArch MA *Durh.*, MS(Arch) *Ill.* Lectr
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 Berry, G. †Lectr.
 Stutchbury, H. E., DipTP *Lond.*, BA Lectr.
 Gibbon, W. A., MA (Professl. Practice) †Lectr.
 Harris, J. B., DipArch Lectr.
 Broadbent, G. H., BA Lectr.
 Archer, J. H. G. Lectr.
 Malpass, J. C. L. (Life Drawing) †Sp. Instr.
 Brunsell, R. W., MA CertTP Lectr
 2 Assts

Art, History of

White, J. E. C. T., PhD *Lond.* Pilkington Prof.
 Sewter, A. C., BSc(Econ) *Lond.*, MA Sr. Lectr
 Rosenau, Helen, DrPhil *Hamburg*, PhD *Lond.* Sr. Lectr.
 Hawcroft, F. W., BA *Lond.* Lectr.

Astronomy, see Physics

Botany

Wardlaw, C. W., PhD DSc *Glas.*, Hon DSc *McG.*, MSc George Harrison Prof., Dir of Exper Grounds
 Colhoun, J., BSc MAgr *Belf.*, PhD DSc *Lond.*, FLS (Cryptogamic B) Barker Prof.
 Calder, Mary G., BSc PhD *Glas.* Sr. Lectr.
 Warne, L. G. G., MSc PhD *Brist* (Hortic) Sr. Lectr., Asst. Dir. of Exper Grounds
 Dormer, K. J., BSc PhD *Lond.* Sr. Lectr.
 Allsopp, A., MSc PhD (Cryptogamic B) Sr. Lectr
 Simon, E. W., MA DPhil *Oxon.* Sr. Lectr
 Hartshorne, J. N., BSc *Wales*, PhD *Camb* (Genetics) Lectr
 Peckert, R. C., BSc PhD *Leeds* Lectr
 Cutter, Elizabeth G., BSc *St And.*, PhD Lectr
 Park, D., MSc PhD Lectr.

2 N

Newton, P., BSc PhD *Nott* Lectr
 Tallis, J. H., BSc *Lond.*, PhD *Wales* Lectr
 Butler, R. D., BSc *Durh.*, PhD *St'lon.* Asst Lectr
 Smith, D. L., BSc PhD *Glas.* Asst. Lectr.
 Truelove, B., BSc *Sheff.* Asst. Lectr.

Celtic

Evans, E., MA *Wales* Lectr

Chemistry, see also Physiol. and Technology

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 Birch, A. J., DPhil *Oxon.*, MSc *Syd.* & *Manc.*, FRS (Org. C.) Prof
 Fairbrother, F., DSc, FRIC (Inorg. C) Prof., Asst. Dir. of Chem. Labs.
 Buskhardt, G. N., MSc PhD, FRIC Sr. Lectr
 Warhurst, E., MSc PhD Sr. Lectr.
 Baxendale, J. H., DSc Sr. Lectr.
 Skinner, H. A., BA BSc DPhil *Oxon* Sr. Lectr.
 Barker, G. R., BSc PhD *Lond.* (Biol. Chem.) Sr. Lectr
 Higginson, W. C. E., MA DPhil *Oxon* Sr. Lectr
 Campbell, I. G., BSc PhD *Lond.* (Radiochem) Sr. Lectr.
 Smith, G. F., PhD *St And.*, MSc Sr. Lectr.
 Herbert, J. B. M., MSc Lectr.
 Quibell, T. H. H., MA PhD *Camb* Lectr
 Bu'Lock, J. D., BA PhD *Camb.* Lectr
 Pritchard, H. O., MSc PhD Lectr
 Allen, G., BSc PhD *Leeds* Lectr.
 Mills, O. S., BSc *Liv.* Lectr.
 Smith, D. C. C., BSc PhD Lectr.
 Colclough, R. O., BA BSc *Dub.*, PhD *Leeds* Lectr
 Watkinson, J. G., BSc PhD *Lond.* Lectr
 Lumb, G. A., BSc *Lond.*, PhD (Med. C) Lectr.
 Jevons, F. R., MA PhD *Camb* (Biol. C) Lectr
 Wood, G. C., BSc PhD *Leeds* (Biochem) Lectr.
 Bruce, J. M., BSc *Lond.*, MSc PhD *Leeds* Lectr
 Paddock, N. L., BA *Camb.* Lectr.
 Thompson, A., BSc *Lond.*, BSc PhD *Nott.* Lectr.
 Rickards, R. W., BSc *Syd* Lectr.
 Wynn, C. H., BSc PhD *Wales* (Biochem.) Lectr.
 Allnatt, A. R., BSc PhD *Lond.* Lectr.
 Jones, M. N., BSc Asst. Lectr.
 Miller, J. R., BA PhD *Camb.* Asst. Lectr
 Farrar, Mrs. Kathleen R., BSc PhD *Lond.* Demr.
 Jenkins, Rev. H. O., PhD DSc *Wales*, DPhil *Oxon.* †Demr
 Dunstan, Sonia, MSc PhD Demr.

Classics, see also Theology

Simple, W. H., PhD *Camb.*, MA *Belf* & *Manc* (Latin) Hulme Prof.
 Westlake, H. D., MA *Camb* & *Manc.* (Greek) Hulme Prof.
 Zuntz, G., DrPhil *Marburg*, FBA (Hellenistic Greek) Reader
 Huxley, H. H., MA *Camb.* (Latin) Sr. Lectr.

Bluck, R. S., MA *Camb*, PhD *Edm*
 (Greek) Sr Lectr
 Marlow, A. N., MA *Lond* (Latin) Sr Lectr
 Leahy, D. M., MA *Oxon* Lectr
 Wilson, A. J. N., MA DPhil *Oxon*. Lectr
 Bradley, D. R., MA *Durh* Lectr
 McCull, R. C., MA *St And*. Lectr
 Macdowell, D. M., MA *Oxon* Lectr
 Brandwood, L., BA PhD *Lond* Lectr
 Knowles, V., MA †Sp. Lectr
 Fisher, J. M., MA Asst. Lectr
 Neal, G. C., BA *Camb* Asst Lectr.

Coptic

Jelinková, Eve A. E., PhilCand *Prague*,
 DipenLangOrAnc DipId'ÉtSup *Paris*,
 PhD *Lav*. Lectr.

Drama

Hunt, H. S., MA *Oxon* Prof
 Pruehoe, J. E., BA *Camb*. Lectr
 Woodruff, G. J. M., BA *Brist* Asst Lectr

Dentistry, see below**Economics, see also Agricultural Economics**

Carte, C. F., MA *Camb*
 (Pol. Econ) Stanley Jevons Prof.
 Williams, B. R., BA *Melb*, MA *Adel*
 Robert Ottley Prof
 Johnston, J., BComSc *Belf*, PhD *Wales*
 (Econometrics) Prof.
 Mars, J., MA *Brist*, DrRerPol *Vienna*,
 MCom *Burm*, BLitt *Oxon* Reader
 Lomax, K. S., BSc MA(Admin)
 (Econ. Stats) Reader
 Martin, K., MA *Oxon*, DrPhil *Fran*.
 (Internat. Econ) Sr Lectr
 Coppock, D. J., BA(Econ) Lectr
 Knapp, J. A., MA *Camb* & *Oxon* Lectr
 Peters, W., MA *Aberd*, BPhil *Oxon* Lectr
 Heath, J. B., MA *St And* Lectr
 Lewis, J. F., BSc *Wales* Lectr
 Savonick, K. M., PhilKand
 FilLit *Stockholm* Lectr.
 Haq, M. T., MA *Dacca*, MSc(Econ) *Lond* Lectr
 Lerner, Shirley W., BA *Roosevelt*, PhD *Lond*
 (Indust Relns) Lectr
 Ball, R. J., BA *Oxon*. Lectr
 Bugg, D. D., BA(Econ) (Econ. Stats.) Asst. Lectr.
 Ford, J. L., BA *Lav* Asst. Lectr.

Education, see below**Education of the Deaf, see Education, below****Egyptology**

Fairman, H. W. †Sp Lectr

Engineering, see also Technology

Diamond, J., BSc *Lond*, MSc *Camb*. &
 Manc, MIMechE (Mech. E.) Beyer Prof
 Hall, W. B., BSc(Eng) *Lond* (Nuclear E) Prof.
 Horne, M. R., MA PhD ScD *Camb*
 (Civil E) Prof
 Rowe, P. W., BSc *Brist*, PhD *St And*,
 DSc (Soil Mechanics) Reader
 Mathieson, R., BSc *Lond*, PhD *Glas*.
 Clifton Sr Lectr., Asst. Dir of Engin.
 Labs.
 Gibson, J. E., MSc PhD *Durh* Sr Lectr
 Annand, W. J. D., BSc(Eng) *Glas* Sr. Lectr.
 Livesey, J. L., DIC, BSc *PhD* Sr Lectr
 Alderman, J. K., MSc PhD Lectr
 Edwards, F. J., MSc Lectr.
 Chusnell, R. F., MSc *Lond*, PhD
 (Maths & Engin) Lectr.
 Morgan, P. G., BSc(Eng) *Lond* Lectr.
 Neville, A. M., MSc(Eng) PhD *Lond* Lectr.
 Price, P. H., BSc PhD *Sheff*. Lectr.
 Derrington, M. G., BSc *St And*. Lectr
 Cheers, F., MA *Camb* Lectr
 Williams, A., BScTech Lectr
 Stebbings, J., BSc *Lond* Lectr
 Jackson, J. D., BSc Lectr.
 Jennings, A., MSc (Aircraft Structures) Lectr
 Bryan, E. R., MSc(Eng) PhD *Lond*. Lectr.
 Montague, P., BSc *Leeds* Lectr.
 Peaker, K. R., BSc(Eng) *Mamnt*. Lectr
 Symmons, G. R. S., BSc *Wales* Lectr
 Harris, M. J., BSc *Burm*. Asst Lectr
 Baines, B. H., BSc(Eng) *Lond*. Asst. Lectr.
 Walton, D. G., BSc Asst Lectr

Engineering, Electrical, see also Technology

Williams, F. C., CBE, DPhil *Oxon*, DSc,
 MIE, FRS
 Edward Stocks Massey Prof of Electro-
 Technics
 Kilburn, T., MA *Camb*, PhD DSc
 (Computer E.) Prof
 Cooper, R., MSc PhD Sr Lectr.
 Brooker, R. A., BSc *Lond*, MA *Camb*
 (Theory of Computing) Sr Lectr.
 Litting, C. N. W., BSc PhD Sr. Lectr
 Lathwaite, E. R., MSc PhD Sr Lectr
 Edwards, D. B. G., MSc PhD Sr Lectr
 Hoffman, G. R., BSc *St And*, PhD Sr Lectr
 Piggott, L. S., MSc(Eng) *Lond*.
 Lectr., Tutor
 Somerville, M. J., BSc PhD Lectr
 Broadbent, T. E., MSc PhD Lectr
 Popplewell, Cicely M., MA *Camb*
 (Computing) Lectr
 Lanigan, M. J., MSc Lectr
 Tipping, D., BSc Lectr.
 Atherton, D. P., BEng *Sheff*. Lectr.
 Eastham, J. F., MSc Lectr.
 Aspinall, D., MSc Lectr.
 Jeffreys, D. C., MSc Lectr
 Turnbull, G. F., MSc Lectr.
 Payne, R. B., MA *Camb*., MSc N Z, PhD
 (Computing) Lectr

Turner, J A, MSc
Nix, G. F., MSc

Asst Lectr
Asst Lectr

Tavera, A M M., LèsL Dipl'd'ÉtSup *Paris*,
MA *Camb.* Asst Lectr.
Cahm, E S. H., BA *Camb* Asst Lectr.
4 Assts.

English Language and Literature

Kermode, J F, MA *Liv* (E Lat.) Taylor Prof
Brook, G L, BA PhD *Leeds*, MA
(E Lang & Mediev E Lit.) Smith Prof
Jump, J D, MA *Liv* (E Lit) Reader
Gordon, Mrs Ida L., BA PhD *Leeds*
(E Lang) Sr. Lectr
Lees, F N, BA (E Lit) Sr Lectr
Leslie, R F, MA PhD (E Lang.) Sr Lectr
Cox, R G., MA PhD *Camb.* (E Lit) Sr Lectr
Moore, G. H., MA *Camb* (Amer Lit) Sr. Lectr.
Hanson, C., MA *Sheff.* (E. Lat) Lectr.
Pollard, A., BA *Leeds*, BLitt *Oxon.*

(E. Lat.) Lectr.
Oliver, Mrs Annabella M., BA *Oxon.*,
MA *Edin.* (E. Lit) Sp. Lectr

Skelton, R., MA *Leeds* (E Lit) Lectr
Barron, W R J., MA BPhil PhD *St And*
(E Lang) Lectr

Hinchliffe, A P, MA *Yale & Manc*
(E Lit.) Lectr

Beer, J B, BD *Lond*, MA PhD *Camb*
(E Lit) Lectr.

Chapple, A J V., MA *Lond* (E Lit) Asst Lectr
Bergonzi, B, BA *Blatt Oxon* Asst Lectr

Goldman, A M, AB *Harv*, MA *Yale*
Asst Lectr

Duncan, T G, MA *Glas* Asst. Lectr.

French Studies

Vinaver, E, DLitt *Oxon*, DèL *Paris*,
Hon. LHD *Chc.*, MA *Oxon & Manc*
(F Lang & Lit) Prof

Sutcliffe, F E., MA PhD (Mod. F. Lit.) Prof
Whitehead, F., MA DPhil *Oxon*
(Old F Lang. & Lit.) Reader

Saunders, F W, MA Sr Lectr.
Young, Margaret L M, MA *St. And.*,
LèsL *Paris*, PhD †Lectr

Gaudon, J A M, LèsL *Paris*, MA Lectr.
Gwynne, G E, MA *Wales*, DUParis Lectr.

Hampson, N, MA *Oxon*, DUParis
(F Hist & Instns.) Lectr

Churchman, Anne R, MA Lectr.
Wexler, P J., MA *Camb.*, DUParis Lectr

Baudard, J -M P, LèsL Dipl'd'ÉtSup *Rennes*
& *Paris* (Mod. F. Lit) Sp. Lectr.

Daniels, G., BA *Wales*, MA Lectr.
Kennedy, Elspeth M., MA DPhil *Oxon*. Lectr.

Hill, Christine M, MA *Oxon & Manc* Lectr.
Sandmeier, E., LèsL *Geneva*
(Mod. F. Lit.) Sp Lectr

Bogdanow, Fanni, MA PhD Lectr
Morgan, Marjorie R, MA *Wales* Lectr.

Lavers, Mrs. Annette C M., LèsL
Dipl'd'ÉtSup *Paris*, MA PhD *Lond*. Lectr.

Wagner, Ermanuele L -B., LèsL
Dipl'd'ÉtSup *Paris* Sp. Lectr.

Crowe, S. M. H., BA *Dub* Asst. Lectr.

Geography

Crowe, P R, BSc(Econ) *Lond*, PhD *Glas.*,
MA Prof

Freeman, T W, MA *Leeds & Dub.*
(Econ. G.) Reader

Sylvester, Dorothy, MA *Liv*. Sr. Lectr.
Rodgers, H. B, MA Lectr

Carter, Jean, BLitt *Oxon.*, BA Lectr
Duncan, J S, MA *N Z*, PhD *Lond* Lectr

Niddrie, D L., MSc *S A.* (on leave) Lectr.
Brice, W C, MA *Oxon*. Lectr.

North, G, MA *Camb* Lectr.
Johnson, R H, BA *R'dg*, MA *Sheff.* Lectr

Fox, D. J., BSc *Lond*, MA *Calif* Asst. Lectr.

Geology, Palaeontology and Petrology

Calder, Mary G., BSc PhD *Glas.* Sr Lectr.
Nicholls, G. D., MA PhD *Camb.*

(Geochem) Sr. Lectr.
Zussman, J, MA PhD *Camb* Sr. Lectr.

MacKenzie, W. S, MA BSc *St. And.*,
PhD *Camb.* Sr. Lectr.

Simpson, I. M., BSc *Edm.*, PhD *Glas.*
(Stratig) Lectr

Morton, E, MSc (Appl. Geol.) †Sp. Lectr
Broadhurst, F M., MSc PhD Lectr.

Howie, R. A, MA PhD *Camb* Lectr.
Dewey, J F, BSc *Lond* Asst. Lectr

Nicholson, R, BSc PhD *Lond* Asst. Lectr.

German Language and Literature

Peacock, R, LittD *Leeds*, DrPhil *Marburg*,
MA *Leeds & Manc.* Henry Simon Prof.

Keller, R E., DrPhil *Zür*, MA
(German Lang. & Mediev. Lit.) Prof.

Kerry, S S, BA PhD Sr. Lectr.
Rohlf, Mis. Freda K, BA *Lond.*, MA Sp Lectr

Wallbank, F. Rosemary E., MA *Lond* Lectr
De Sagarra, Mrs Eda O'S., MA *N.U.I.*

DrPhil *Vienna* Asst Lectr
Solomon, Mis. Rhona R., BA *Oxon*, MA

Asst. Lectr.
Larner, G, BA *Oxon* Asst. Lectr.

Blamires, D M, BA *Camb* Asst. Lectr.
2 Assts.

Government

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& *Manc.* Prof.

Chapman, B., MA DPhil *Oxon*.
(on leave) Sr Lectr.

Grove, J W, BSc(Econ) *Lond.* Sr Lectr
Potter, A. M., MA *Wesleyan* (Conn.),
PhD *Col.* Lectr.

Grundy, J, BA BA(Admin) Lectr.
Hanham, H J., MA *N.Z.*, PhD *Camb.* Lectr

Lee, J. M., MA BLitt *Oxon*. Asst. Lectr.

Gunn, L. A., MA *Aberd* Asst. Lectr.
 Anderson, M., MA DPhil *Oxon* Asst. Lectr.
 Abdel-Rahim, M., BA *Lond* & *Nott* Asst. Lectr.
 Rose, C. R., BA *Johns H.*, DPhil *Oxon* Asst. Lectr.

Sanderson, J. B., BA *Hull*, MA (Econ) Asst. Lectr.

Hebrew, see Semitic Studies and Theology

Histology, see Anat. and Histol.

History, see also Econ. and Theology

Smith, R. E., MA *Camb* & *Mane* (Anc. H.) Prof.

Goodwin, A., MA *Oxon* & *Mane* (Mod. H.) Prof.

Rupp, Rev. E. G., BA *Lond*, MA DD *Camb.* (Eccles. H.) Prof.

... (Econ. H.) Prof.
 (Mediev. H.) Prof.

Willan, T. S., MA BLitt DPhil *Oxon* Reader

Stark, W., DrRerPol *Hamburg*, DrJur *Prague*, MA *Edin* (H. of Econ. Thought) Reader

Chaloner, W. H., MA PhD (Mod. Econ. H.) Sr. Lectr.

Henderson, W. O., MA *Camb*, PhD *Lond* (Internat. Econ. H.) Sr. Lectr.

Pennington, D. H., MA *Oxon* Sr. Lectr.

Ward, W. R., MA DPhil *Oxon* †Sr. Lectr.

Ehrhardt, Rev. A. A. T., DrJur *Konigsberg*, PhD BD *Camb* (Eccles. H.) Bishop Fraser Sr. Lectr.

Desborough, V. R. d'A., MA BLitt *Oxon* Sr. Lectr.

Tupling, G. H., MA BSc PhD *Lond* (Local H.) †Sp. Lectr.

Rodewald, C. A., MA *Oxon* Lectr.

Robinson, Rev. W. G., MA *Oxon*, BA *Lav.*, BD PhD (Eccles. H.) Lectr.

Flitcroft, Rev. J., MA (Eccles. H.) †Lectr.

Western, J. R., MA *Oxon*, PhD *Edin* Lectr.

Williams, P. H., BA *Oxon* Lectr.

Musson, A. E., MA Lectr.

Perkin, H. J., MA *Camb* (Soc. H.) Lectr.

Hampson, N., MA *Oxon*, DUParis (French H. & Instns.) Lectr.

John, E., MA Lectr.

Green, E. R. R., BA BLitt *Dub*, DPhil *Oxon* (on leave) Lectr.

Aylmer, G. E., MA DPhil *Oxon* Lectr.

Leff, G. A., BA PhD *Camb* Lectr.

Rosser, C. E. P., MA *Oxon* (Archaeol.) Sp. Lectr.

Bean, J. M. W., MA DPhil *Oxon* Lectr.

Graham, A. J., MA PhD *Camb* Lectr.

Fraser, P., BA *Camb*, PhD *Lond* Lectr.

Burney, C. A., MA *Camb* (Nr. Eastern Archaeol.) Lectr.

Robinson, E. H., MA *Camb* (Econ. H.) Lectr.

Outhwaite, R. B., BA *Nott* (Econ. H.) Lectr.

Farnie, D. A., MA (Econ. H.) Lectr.

Manning, B. S., MA DPhil *Oxon* Asst. Lectr.

Hyde, J. K., MA DipSocAnthrop DPhil *Oxon*, Asst. Lectr.

Horticulture, see Bot.

Italian

Aquilecchia, G., DottLett *Roms* Prof.

Speight, Kathleen, MLitt *Camb*, DottLett *Florence*, MA Sr. Lectr.

White, D. M., MA *Camb*, PhD Lectr.

Ralphs, Sheila, BA *Lond* Lectr.

Lucchesi, V., DottLett *Florence* Asst. Lectr.

Law

Wortley, B. A., OBE, LLM *Leeds*, Hon. DURENNE, LLD (Jurisp. & Internat. L.) Prof.

Cooper, W. Mansfield, LLM (Indust. L.) †Prof.

Street, H., LLM PhD (Engl. L.) Prof.

Turner, J., LLM *Lav* (L. of Property) †Prof.

Bromley, P. M., MA *Oxon* Sr. Lectr.

Flesling, Edith, OBE, LLB †Lectr.

Shepherd, F. C., LLB †Lectr.

Sidebotham, H., LLM †Lectr.

Towns, F. W., LLM †Lectr.

Dwyer, J. E., LLM (Roman L.) †Hon. Lectr.

Thompson, D., LLB PhD *Nott* Lectr.

Nowell, D. G., LLB †Asst. Lectr.

Dean, M., LLB *Nott* Asst. Lectr.

Barnsley, D. G., LLM Asst. Lectr.

Cox, Diana M., LLB *Lond.*, LLM *Tulane* Asst. Lectr.

Gilliland, J. A. D., LLB *Belf.* Asst. Lectr.

Grieg, D. W., BA *Camb* Asst. Lectr.

Campbell, P. I., MA *Aberd.*, BA *Camb* Asst. Lectr.

Linguistics, General

Haas, W., MA *Wales* Sr. Lectr.

Literary Studies, Comparative

Hughes, G. T., MA PhD *Camb* Lectr.

Mathematics, see also Technology

Newman, M. H. A., MA *Camb*, MSc, FRS (Pure M.) Fielden Prof.

Unsell, F. J., MA ScD *Camb* Beyer Prof.

Whittle, P., MSc *N.Z.*, DrPhil *Uppsala* (Mathl. Stats.) Prof.

Mahler, K., DrPhil *Fran.*, DSc, FRS (Mathl. Analysis) Prof.

Camm, G. L., MA DPhil *Oxon* Reader

Adams, J. F., MA PhD *Camb* Reader

Ledermann, W., DSc *Edin.*, PhD *St. And.* Sr. Lectr.

Illingworth, C. R., BA *Camb* Sr. Lectr.

Levine, S., MA PhD *Tor.* Sr. Lectr.

Haselgrove, C. B., MA PhD *Camb.* (Theory of Computing) Sr. Lectr.

Wild, E., MA *Camb* Sr. Lectr.

Glauert, M. B., MA *Camb* Sr. Lectr.

Green, J. A., BSc *St. And.*, PhD *Camb* Sr. Lectr.

Barratt, M. G., MA DPhil *Oxon* Sr. Lectr.

Bland, D. R., MA *Camb* Sr. Lectr.

Birch, B J, MA PhD *Camb* Sr Lectr.
 Gandy, R O, MA PhD *Camb* (Mathl Logic) Sr Lectr
 Silvey, S D, MA PhD *Glas* (Stats) Sr Lectr
 Cohn, F M, MA PhD *Camb* Lectr
 Chisnell, R. F., MSc *Lond*, PhD (Maths & Engrn) Lectr
 Goldworthy, F. A, MSc PhD Lectr.
 Morton, B R, MSc N Z, BA PhD *Camb* Lectr
 Watson, E J, MA *Camb* Lectr
 Lewis, T., MA *Oxon*. (Mathl Stats.) Lectr.
 Darroch, J N., MA *Camb*, PhD *Cape T* (Mathl Stats) Lectr
 Rutovitz, D, MSc PhD *Cape T* Lectr
 Priestley, M B, MA *Camb*, PhD (on leave) (Mathl Stats) Lectr
 Collins, W. D, BSc PhD *Lond* Lectr
 Blackburn, N., BA PhD *Camb* Lectr
 Gibbons, A., BSc Asst Lectr
 Fowler, D. H., BA *Camb*. Asst. Lectr
 Fielding, G. T., MSc Asst Lectr

Mechanics of Fluids

Owen, P R, BSc(Eng) *Lond.*, MSc Prof, Dir of Lab.
 Johannesen, N H, MSc D^r Techn *Copen-hagen* Sr. Lectr.
 Zienkiewicz, H K Lectr
 Gerrard, J. H., MSc PhD Lectr
 Jennings, A, MSc (Aircraft Structures) Lectr.
 Hall, I M, MSc PhD Lectr.

Medicine, see below**Mesopotamian Studies, see Semitic Studies****Metallurgy and Metallography, see also Technology**

Tottle, C R, MMet *Sheff*, FIM Prof, Dir of Labs
 Axon, H. J., BMet *Sheff*, DPhil *Oxon*. Reader
 Entwistle, K. M., MSc PhD Reader
 Leak, G M., BSc *Lond*, PhD *Birm*, FIM Sr Lectr.
 Shelton, R A. J., BSc *Lond*. Lectr
 Cottell, G A, MSc Hon Sp Lectr
 Stubbles, J R., PhD *Lond*, BSc Lectr.
 Spriggs, P H, MSc *Lond* Lectr
 Ridley, N., BSc PhD *Durh* Lectr.
 Elliott, R., BSc Lectr.
 Matthews, K W, BA *Oxon* Hon Sp Lectr
 Barrand, P, BSc Asst. Lectr

Music

Procter-Gregg, H, BA MusB *Camb*, MA Prof
 Aitchison, M., MA MusB *Camb* Reader
 Cox, F R, OBE, MA *Oxon* Hon Sp. Lectr.
 Avery, D Ann, MA MusB *Camb* Lectr
 Smith, P. B., MA MusB *Camb*, MSc *Juillard* Lectr.
 Horsfall, B., BMus *Durh*, MusD Asst. Lectr.
 Knowles, C. Asst. Lectr
 Webb, J. B., BA MusB *Camb*. Asst Lectr
 3 Assts

Near Eastern Archaeology, see Hist**Palaeography**

Tyson, M., MA PhD †Reader

Palaeontology, see Geol.**Persian Studies**

Boyle, J A, BA *Birm*, PhD *Lond*. Reader

Petrology, see Geol**Philosophy, see also Theology**

Emmet, Dorothy M, MA *Oxon* & *Manc* Prof.
 Sir Samuel Hall
 Prior, A. N, MA N.Z. Sr Lectr
 Mays, W, PhD *Camb* Sr Lectr
 Hemy, D. P., BA *Leeds*, PhD Lectr.
 Lejewski, C, MagFil *Warsaw*, PhD *Lond*. Lectr
 Bell, D R, MA *St And* Asst Lectr
 Holdercroft, D., BA *Camb* Asst Lectr
 Parry, G B., BSc(Econ) PhD *Lond*. Asst Lectr.

Physics, see also Engrn, Electr, and Technology

Flowers, B. H., MA *Camb* & *Oxon*, DSc *Birm.*, FRS Langworthy Prof
 Kopal, Z, DSc *Prague*, MSc (Aston) Prof
 Lovell, Sir Bernard, OBE, BSc PhD *Brist*, Hon DSc *Leic*, Hon LLD *Edin*, MSc, FIP, FRS
 (Radio-Astron) Prof, Dir of Nuffield Labs.
 Brown, R. H., DIC, BSc(Eng) *Lond.*, DSc, FRS (Radio-Astron.) Prof.
 Hall, H E, BA PhD *Camb*. Prof.
 Paul, E B., MA *Qu*, PhD *Camb*. Prof.
 Gilbert, C. W., MA PhD *Camb* Hon. Reader
 Braddick, H. J. J., BA PhD *Camb* Reader, Asst. Dir of P. Labs.
 Birks, J B, BA *Oxon*, DSc PhD *Glas*, FIP Reader
 Davies, J G, MA *Camb*, PhD (Radio-Astron.) Reader
 Edwards, S F, MA PhD *Camb* (Theoret. P.) Reader
 Ring, J, BSc PhD (Spectrometry) Reader
 Mendoza, E B, MA PhD *Camb* Sr. Lectr.
 Newton, J. O., MA PhD *Camb* Sr. Lectr.
 Kahn, F D, BA DPhil *Oxon*. (Aston) Sr Lectr.

Herzenberg, A, BSc PhD (Theoret P) Sr Lectr.

Jennison, R C, BSc PhD (Radio-Astron.) Sr Lectr.

Palmer, H P, BA DPhil *Oxon* Lectr

Bunbury, D. St. P., BSc PhD *Lond*. Lectr

Calvert, J M., MA DPhil *Oxon* Lectr.

Jaffe, A. A., PhD *Jerusalem*, BSc Lectr.

Goldfarb, L J. B., MSc *McG*, PhD *Roch*. (Theoret. P) Lectr.

Broadbent, D., BSc Lectr.

Davies, R. D., MSc *Adel*, PhD
Roman, P., DrPhil *Bud* (Theoret P) Lectr
Boyle, A. J. F., BSc *Melb*, PhD *A N U* Lectr
Mandl, F., MA DPhil *Oxon.*

(Theoret P) Lectr

Large, M. I., MA PhD *Camb* Lectr
Grant, I. S., BA PhD *Camb.* Lectr
Phillips, W. R., BSc *Lond.*, PhD *Camb* Lectr.
Reddish, V. C., BSc PhD *Lond*

(Radio-Astron) Lectr

Conway, R. G., MA PhD *Camb* Lectr
(Radio-Astron.) Lectr
Dunning, N. J., MA *Camb*, BSc *Lond.* Lectr
Bodmer, A. R., BSc PhD (Theoret P) Lectr
Bowcock, J. E., BSc PhD *Byrn*

(Theoret P) Lectr

James, J. F., BSc *Wales*, MSc *R'dg* Lectr
Thomson, J. H., MA PhD *Camb.*

(Radio-Astron) Lectr

Lisle, J. C., BA DPhil *Oxon.* Lectr
Read, F. H., BSc *Lond*, PhD Lectr
Sandiford, D. J., MA *Camb*, MS PhD *Yale* Lectr

Pearson, J. M., BSc *Lond*, PhD *McM.* Lectr
(Theoret P) Lectr

Hazlehurst, J., MSc PhD (Astron) Lectr
Slater, C. H., BSc PhD Asst Lectr
Dickinson, B., BSc Asst Lectr
Kay, L., BSc Asst Lectr

Physiology

Schlapp, W., MB ChB BSc PhD *Edin.*,
MSc Brackenbury Prof., Dir. of Labs.
Mills, J. N., MA BSc DM *Oxon.*,
MD *Camb.* Reader

Kendal, L. P., PhD *Camb*, MSc
(Physiol Chem.) Sr Lectr.

Morgan Jones, A., MSc MB ChB, FRCP
(Appl P) Lectr

Beswick, F. B., MB ChB (Exper. P) Lectr
Thomas, S., BSc MD *Wales* Lectr

Griffiths, D. L., MBE, BSc MB ChB,
FRCS (Appl P) Hon Asst Lectr

Hastwell, L. J., BSc PhD *Durh*, MB
ChB *Edin.* Lectr

Parker, J. D., BSc *St. And.* (Chem. P) Demr.

Hall, Ann H., BSc *Lw*, PhD *Lond*
(Chem. P) Demr.

Lomax, P., MB ChB Demr.

Williamson, K. S., MB ChB Demr.

Tinker, J., BSc MB ChB Demr

Portuguese Studies, see Spanish

Psychology

Cohen, J., PhD *Lond*, MA *Lond.* & *Manc.* Prof.
MacNeill, Florence E., MA BEd PhD *Edin.*

Sr. Lectr

Kenna, J. C., MA *Calif*, BA *Syd*,
BEd *Melb* (Clin P) Lectr

Kitching, E. H., MD *Leeds*, DPM, MRCP
†Sp. Lectr

Hansel, C. E. M., MA *Camb.* Lectr

Morris, J. F., BSc(Econ) PhD *Lond* Lectr.

Skemp, R. R., MA *Oxon*, PhD Lectr
Rump, E. E., BSc *Lond* Lectr.
Dearnaley, E. J., MSc Asst Lectr
Cooper, P., BSc Asst. Lectr
Gregory, A. H., BA *Camb.* Asst Lectr.

Radio-Astronomy, see Physics

Romance Linguistics

Hope, T. E., DSC, MA *Oxon* Sr. Lectr

Russian Studies

Costello, D. P., MA *N Z*, *Camb.* & *Manc*
Sir William Mather Prof

Dumbreck, J. C., MA *Glas* Lectr

White, Mrs Duklida, BA *Moscow* Sp. Lectr

Beresford, M., BA Lectr

Du Feu, Veronica M., MA PhD *Lond.*,
LicenPhd Slav *Brussels* Lectr

Hollingsworth, B., BA *Camb* Asst. Lectr

Piper, D. G. B., BA *Camb.* Asst. Lectr.

Scandinavian Studies

Asst. Lectr

Semitic Studies, see also Theology

Beckingham, C. F., MA *Camb*
(Islamic Studies) Prof

Ullendorff, E., MA *Jerusalem*, DPhil *Oxon*

Weis, P. R., DPhil & HistOr *Louvain*, MA
(Post-Biblical Jewish Studies) Laski Reader

Wallenstein, M., MA PhD
(Mediev. & Mod. Hebrew) Reader

Wernberg-Møller, P., CandTheol *Copenhagen*,
DPhil *Oxon* (Semitic Langs. & Lits.) Lectr.

Allegro, J. M., MA (Hebrew) Sp Lectr.

Rubinstein, A., LL.M. (Mod. Hebrew) Sp Lectr.

Latham, J. D., MA DPhil *Oxon.* (Arabic) Lectr.

Donald, T., BA (Akkadian) Asst Lectr

Social Administration

Chester, T. E., DrJur *Vienna*, MA (Econ.) Prof.

Rodgers, Mrs Barbara N., MA *Oxon* Sr. Lectr

Rose, A. G., BSc(Econ) *Lond.*, BLitt *Oxon*.
Sr. Lectr.

Rodgers, A. B. L., BSc(Econ) *Lond.* Lectr

Heywood, Jean S., PhD *Leeds*, BA Lectr.

Gray, Mrs. Kathleen R., BA Tutor

Brown, R. G. S., MA *St And.* Lectr.

Jones, Mrs Kathleen, BA PhD *Lond.* Lectr.

Maude, Mrs. Florence, BA *Durh* Tutor Caseworker

Social Anthropology

Gluckman, H. M., BA *Rand*, DPhil *Oxon.*,
MA *Oxon* & *Manc* Prof.

Peters, E. L., BA *Wales*, MA *Camb.*,
DPhil *Oxon* Sr Lectr.

Watson, W., BA MSc *Camb.*, PhD
(Sociol.) Sr. Lectr

Turner, V W, BA *Lond.*, PhD Lectr
 Frankenberg, R. J., BA *Camb.*, MA(Econ) Lectr
 PhD
 Pons, V G. K., MSocSc *Cape T.*, Lectr.
 PhD *Lond*

Social Studies

..... Prof

Spanish and Portuguese Studies

Ramsden, H., DrenFil&Let *Madrid*, MA (Spanish Lang & Lit) Prof
 Raventos, Mrs Margaret H., MA *Edin* Sp Lectr

Gybbon-Monypenny, G. B., MA Lectr.
 PhD *Camb*
 Michael, I. D. L., BA *Lond.* Lectr.
 Willis, R. C., MA *Camb* (Portuguese) Lectr.
 Dixon, V F., MA PhD *Camb* Lectr.
 Price, R. M., MA Asst Lectr.
 r Asst.

Technology, see below

Theology, see below

Town and Country Planning

Kantorowich, R. H., BArch *Rand* Prof
 Easton, H. C., TD, MA *Oxon*, LLB (Town Planning Law) †Lectr.
 Chadwick, G. F., MA BScTech PhD
 DipTP Lectr
 Jackson, J. N., BA *Birm.*, PhD (on leave) Lectr
 Medhurst, D. F., DFC, MA Lectr
 Melville, I. S., BArch DipCD *Liv* Lectr.
 Robinson, D. G., BA *Durh* Lectr.
 Pedley, M. D., BA †Lectr
 Turner, R., BA(Econ) DipTP †Lectr
 Raymond, S., MScTech DipTP †Lectr
 Winters, A. D. J., BA *Lond.*, DipTP †Lectr
 Welsby, J. E †Lectr
 Baxter, K. M., DipTP †Lectr

Youth Work, see Education below

Zoology

Cannon, H. G., MA ScD *Camb*, DSc *Lond.*, MSc, FRS Beyer Prof, Dir. of Labs.
 Dennell, R., DSc *Leeds*, MSc, FLS (Exper Z) Prof
 (Ecol) Reader
 Blower, J. G., MSc
 Brown, F. J., MSc *Bum.* Si Lectr, Asst. Dir. of Labs
 Iles, E. J., BSc PhD *Brist* Sr. Lectr.
 Popham, E. J., PhD DSc *Lond.* Lectr.
 Kennaugh, J. H., MSc *Lond.* (Exper Z) Lectr
 Peel, Mrs. Edna D., MSc †Sp. Lectr.
 Evans, M. E. G., BSc PhD *Lond.* Lectr.
 Thomas, M. Pugh, BSc PhD *Liv.* Lectr.
 Gabbutt, P. D., BSc *Leeds*, PhD *Lond.* Asst Lectr
 Askev, R. R., BSc *Durh.* Asst. Lectr

DENTISTRY

Anæsthesia

Dinsdale, T., MB ChB, FFARCS †Lectr., Demr.

Children's Dentistry and Preventive Dentistry

Hardwick, J. L., MDS PhD *Birm.*, FDSRCS (Prev D.) Prof.
 Miller, J., DDS Sr. Lectr
 Hobson, Mrs Pamela, MSc LDS †Lectr.
 Hargreaves, J. A., LDS Hon Clin Lectr.

Dental Anatomy and Physiology and Dental Histology

Monks, F. T., MSc LDS, FDSRCS Lectr.

Dental Ethics and Practice Management

Milne Gall, A. J. Lectr

Dental Prosthetics and Dental Mechanics

Matthews, E., DIC, PhD *Lond.*, MSc
Lond & Manc, DDS, FDSRCS (Prosthetic D) Prof, Dir. of Dept.
 McIntyre, H., MB ChB BDS, FDSRCS (Prosthetics) †Clin. Lectr
 Graham, Miss Estelle P. M., MSc LDS (Clin Prosthetics) †Lectr.
 Smith, D. C., MSc *Lond.*, PhD, FRIC (D Materials) Lectr
 Bates, J. F., BDS *Durh*, MSc (Prosthetic D) Lectr
 Johnson, W., MSc LDS (Prosthetic D) Lectr.
 MacCulloch, W. T., BDS *Glas.*, PhD *Birm* (Prosthetic D.) Lectr
 Stafford, G. D., LDS †(Clin Prosthetics) Lectr
 Bevan, E. M., MDS *Syd.* (Prosthetic D) Lectr.
 Wain, E. A., MSc (Prosthetic D.) Asst. Lectr
 Wilson, H. J., MScTech PhD (D Materials) Asst. Lectr
 Davies, A. K., LDS (Prosthetic D) Asst. Lectr.
 Newall, P. H., BSc (D. Materials) Asst. Lectr

Dental Radiology

Derbyshire, K., LDS †Clin. Lectr

Dental Surgery

Radden, H. G., DDSc *Malb.*, MSc, FDSRCS Prof.
 Cooke, C., LDS, FDSRCS Sr. Clin Lectr.
 Lewis, P. R., BDS †Sr. Clin Lectr.
 Hatt, S. D., BDS *St.And.*, MDS, FDSRCSed Sr. Lectr
 McKenzie, J. S., LDS †Clin. Lectr.
 Cartledge, D. H., BDS, FDSRCS †Clin. Lectr.
 Cocker, G., LDS †Clin. Lectr.
 Crabtree, P., LDS †Clin. Lectr.
 Turner, Mrs. Barbara M. A., BDS †Clin. Lectr.
 Turner, E. P., MSc Lectr.
 Davies, T. G. H. †Lectr.
 Tyson, R. J., LDS †Lectr.

Stockdale, C R., LDS	†Lectr.	Howarth, Jean N., MA	Lectr.
Acton, A B, LDS	†Lectr.	Taylor, I G, MB ChB DPH	(Clin Audiol) Lectr
Tyldesley, W R., MSc PhD, FDSRCSed	†Lectr.	Thomas, H.	(Architectural Acoustics) Hon Sp Lectr.
Colman, G., MDSc <i>Melb</i> , DipBact	Asst Lectr	Owrid, H L., MA	(Audiol) Lectr
Rothwell, P S, MDS	†Asst Lectr.	Palmer, Jean, BA <i>Lond</i>	Lectr
Hindle, M O, BDS	Asst Lectr	Ewing, Lady, CertTDeaf	Hon Lectr
Oldham, L., BDS <i>Bnm.</i>	Asst Lectr.		
ten Bruggen Cate, H. J., BDS	Asst. Lectr		
Lomax, G W, BDS	Asst. Lectr		

Medicine

Parkinson, J. S., BSc MB ChB DPH, MRCP	†Lectr	Oliver, R. A C, BEd PhD <i>Edin</i> , MA <i>Edin</i> & <i>Mane</i>	Sarah Fielden Prof, Dir of Dept
Roussak, N J., BSc MB ChB, MRCP	†Clin Lectr	Wiseman, S, BSc MEd <i>Durh</i> , PhD	Prof
		Warburton, F W, BA <i>R'dg</i> , MA	PhD <i>Lond</i> Sr. Lectr
		Stafford, E., JP, BSc <i>Lond</i> , BA (<i>Admun</i>)	Sr Lectr.

Operative Dentistry

Holt, J K, DDS <i>Northwestern</i> , MSc LDS, FDSRCS	Reader	Gregory, Alys L., MA PhD	Lectr.
Rowbotham, T. C., BDS, FDSRCS	(Oper Technique) †Lectr.	Nesbitt, J. E., MA <i>Belf.</i>	Lectr
Castledge, D H., BDS, FDSRCS	(Oper Technique) Lectr.	Morris, N., MA <i>Oxon</i>	Lectr
		Coltham, Mrs. Jeanette B., MA <i>Oxon.</i> , PhD	Lectr.
		Crossland, R W, BSc MEd	Lectr.

Oral Surgery

Ashcroft, G, LDS, FDSRCS	†Sr Clin Lectr	Gorner, F., MSc <i>Sheff</i>	Lectr
Janes, B V., LDS, FDSRCS	Sr Clin. Lectr	Black, E L., MA <i>Camb</i> , MEd	Lectr
Sealey, E. H., LDS, FDSRCS	Lectr	Claypole, Mrs Barbara M. (Speech E.)	Lectr
Moule, A. W., BDS, FDSRCS	†Hon. Clin Lectr.	Blyth, W A L., MA <i>Camb</i> , MEd <i>Nott</i> , PhD	Lectr.
Mellor, W C., LDS, FDSRCS	Hon Clin Lectr	Shewell, M E. J., MA <i>Lond</i> , BSc	Lectr.
...	Asst. Lectr.	Butcher, H J, BA <i>Camb</i> , PhD DipEd	Lectr
		Gaskell, W, BSc	Lectr
		Lunzer, E A, MA <i>Oxon</i> , PhD <i>Birm</i>	(Child Psychol.) Lectr

Orthodontics

Hartley, D. T., LDS	Lectr.	Hearn, Mrs Florence M., MA <i>Camb</i> Sp	Lectr
Robertson, N R E., BDS <i>Glas</i>	Lectr	Hickman, A T, BA <i>Lond.</i> , BMus <i>Durh</i>	Lectr.
		Percival, T. S., BA <i>Leeds</i> , MEd <i>Durh.</i>	Lectr.

Parodontia

Harrington, J, BDS	†Sr. Clin. Lectr.	Robinson, Nora, BA MEd DipEdPsych	Lectr.
		Harrison, J. L., MA <i>McG</i> , MLat <i>Camb</i>	Lectr.
		Harrison, D F	(Speech E.) Lectr

Surgery

Rose, S S, MB ChB, FRCS	Lectr., Clin. Lectr.	Sampson, Olive C, MA BEd <i>Edin</i>	Lectr.
		Roberts, G. R., MA <i>Wales</i>	Lectr
		Entwistle, H., BSc (Econ) <i>Lond</i> , MEd	Lectr

EDUCATION

(see also School of Education, below)

Adult Education

Waller, R. D., CBE, MA	Prof.	Harper, R. St G T, MA <i>Oxon</i>	Sr Lectr, Dir of Dept.
Legge, C D, BA <i>Lond</i>	Lectr.	Steel, W L., MA EdB <i>Glas</i>	Lectr
Du Sautoy, P F. De C, MA <i>Oxon</i>		McNair, D.	Lectr
(Fundamental E. & Community Devel)	Lectr.	Strutt, Betty E, DipEd	Lectr
		Heron, Joyce M	Lectr
		Macdonald, A. I	Asst Lectr.

Audiology and Education of the Deaf

Ewing, Sir Alexander, MA <i>Edin</i> , PhD		Smith, C S S, MSc (Econ) PhD <i>Lond</i>	Dir of Studies
Ellis Llwyd Jones Prof, Dir. of Dept.			
Watson, T. J, MC, MA PhD <i>Edin.</i>	Sr Lectr		
Carill, Eleanor L., BA	Lectr.		
Williamson, Marion B., MA <i>Glas.</i> , MEd	Lectr.		
Moseley, Mrs. Nora H, MEd	Lectr.		
Wollman, D. C, MA <i>Leeds</i> , BA	Lectr		
Redgate, G. W., BA DipEd	Lectr.		
John, J. E J., BSc <i>Wales</i>	(Audiol.) Lectr.		

Physical Education

Harper, R. St G T, MA <i>Oxon</i>	Sr Lectr, Dir of Dept.
Steel, W L., MA EdB <i>Glas</i>	Lectr
McNair, D.	Lectr
Strutt, Betty E, DipEd	Lectr
Heron, Joyce M	Lectr
Macdonald, A. I	Asst Lectr.

Youth Work

Smith, C S S, MSc (Econ) PhD <i>Lond</i>	Dir of Studies
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MEDICINE

(for subjects of first 2 yrs.—Anat., etc., see above)

Anæsthesia

Brennan, H. J., MD, FFARCS	†Lectr., Dir. of Sub-Dept
----------------------------	---------------------------

Begg, Elsie C, MB ChB †Tutor
 Dinsdale, T, MB ChB, FFARCS †Tutor
 Hunter, A R, MD *Glas.*, FRFPGS *Glas.*,
 FFARCS †Tutor
 Culbert, T D., MB ChB *Edin.*, FFARCS †Tutor
 Johnstone, M W, MD BAO *Belf.*,
 FFARCS †Tutor
 Jones, W K, FFARCS †Tutor

Bacteriology

Mastland, H B., MD *Tor.*, MSc
 Prof., Dir of Dept
 Preston, N W, MD DipBact Sr Lectr
 Hancock, R, BA PhD *Camb.* (on leave) Lectr
 Taylor, G, MD (Clin Pathol) Lectr
 Evans, P, BSc MB BCh *Wales* Asst Lectr.
 Sturland, R M., MA MB BCh *Camb.* Asst Lectr.
 Hatton, M. P., MSc (Chem. B) Demr.

Cardiology, see Med.**Child Health**

Gaisford, W F, MD *Lond.*, MSc, FRCP
 (C H & Pediatrics) Prof., Dir of Dept
 Holzel, A, MD *Prague* Sr Lectr
 Fisher, T. N., MB ChB DPH, MRCP †Lectr
 Guthrie, Mrs Sylvia K., MD, MRCP †Lectr
 Thomson, M. L., MA MD *Aberd.*, FRCP †Lectr.
 Komrower, G. M., TD, MB ChB, FRCP †Lectr.
 Patterson, W H, MD *Belf.* †Lectr.
 Feldman, G V, MB ChB, MRCPed Lectr
 Cavanagh, Miss Florence, MB BS *Malb.*,
 BSc, FRCSed †Hon Lectr
 Guthkelch, A N, MA MCh *Oxon.*, †Hon Lectr
 FRCS †Hon Lectr
 Haxton, H A., MD ChM *St And.*, FRCS †Hon Lectr
 Heslop, T. S., MB ChB, FRCS (also Surg) †Hon Lectr
 Wolman, B, MD, MRCP †Hon Lectr
 Jolleys, A., MD *Liv.*, FRCS †Hon Lectr
 Schwarz, V., BSc *Lond.*, PhD (also Pathol.) (Chem Pathol.) Lectr
 Watson, G H, BSc MB ChB, MRCP Lectr.
 Macleay, R I, BSc MB ChB, MRCP †Lectr.
 Hartley, J B, MD *Durh.*, DMRE *Camb.*,
 FRCS (Radiol) †Lectr.
 Macaulay, D, BSc MD *Glas.*, MRCP (on leave) †Hon. Lectr
 Goldberg, H-M, MB BS *Lond.*, FRCS †Hon Lectr.
 Maissen, H B, MB ChB (Paediatric Pathol) †Hon. Lectr
 Steward, J K, MD, MRCP (also Pathol) (on leave) Lectr.
 Field, Constance E., MD *Lond.*, MRCP Hon. Clin Lectr.

Dermatology

Garretts, M., MB BS *Lond.*, MRCP †Lectr.
 Auckland, G, MB BS *Lond.*, †Asst. Lectr.
 Portnoy, B, MD †Asst. Lectr

Forensic Medicine

Manning, G B, BSc *St And.*, MB
 ChB *Liv.*, FRIC †Lectr

Hæmatology, see Med.**Infectious Diseases**

Liddle, D C, MB ChB *Glas.* †Lectr.

Medical Ethics and Conditions of Medical Practice

Fay, H P., MB ChB †Lectr.

Medicine

Black, D A K, BSc MD *St And.*, FRCP
 Prof., Dir. of Dept
 Platt, Sir Robert, Bt., MD *Sheff.*, Hon MD
Brist., Hon LLD *Sheff.* & *Belf.*, MSc, FRCP †Prof
 Lane, R E, CBE, MD *Lond.*, MSc, (Occupnl Health) †Prof.
 FRCP
 Kellgren, J H, MB BS *Lond.*, MSc, FRCP, FRCS
 (Rheumatol) Prof., Dir of Rheum Res Centre
 Wilkenson, J F, MSc MD PhD, FRCP, FRIC
 (Hæmatol) |Reader, Du of Sub-Dept
 Stanbury, S. W., MD, MRCP Reader
 Morgan Jones, A., MSc MB ChB, FRCP (Cardiol) †Reader, Dir of Cardiol Sub-Dept.
 Jeffrey, M R., BA *Camb.*, MD *Camb.* & *Tulane*, MRCP
 (Rheumatol) Sr Lectr, Asst Dir of Clin Section of Rheum Res. Centre
 Wilkinson, J. F., MSc MD PhD, FRCP, FRIC †Lectr.
 Ferguson, F. R., MD DPH, FRCP Lectr
 Brockbank, W., MA MD *Camb.*, FRCP Dean of Clin. Studies, †Lectr
 Don, C S D, MD *Aberd.*, FRCP †Lectr.
 Howat, H. T., MB ChB *St And.*, FRCP †Lectr.
 Luxton, R. W., BSc MD, FRCP †Hon Lectr.
 Israels, M C G., MSc MD, FRCP (Hæmatol) Lectr., Asst. Dir of Hæmatol Sub-Dept
 Wade, H J, BSc MD, MRCP †Hon. Lectr
 Oelbaum, M. H., BSc MD, MRCP †Hon. Lectr
 Oleesky, S., MD *Wash.*, MSc MB ChB †Hon. Lectr
 Robinson, W., MC, MD *Leeds*, MRCP †Hon. Lectr.
 Emery, E W., BSc PhD *Lond.* (Med Phys) Lectr
 Parkinson, J. S., BSc MB ChB DPH, MRCP (Med. for Dent. Students) |Lectr
 Roussak, N. J., BSc MB ChB, MRCP (Clin Med. for Dent Students) |Lectr
 Harvey, B. H., MA *Oxon.*, MSc *Hav.* (Occupnl Health) †Hon Lectr.
 Malcolm, D., MB ChB *Edin.* (Occupnl Health) †Hon. Lectr.

- Lee, W. R., MB BS *Lond.*
(Occupnl. Health) Lectr.
Chapman, J. A., BSc *Lond.*, PhD *Camb.*
(Biophys. in Dept of Rheumatol.) Lectr
Popert, A. J., MB BS *Lond.*, MRCP
Clin. Section of Rheum. Res. Centre, Lectr
Stratton, F., DSc MD DPH
(Human Serol.) Lectr
Turner, D., PhD *Lond.*, MSc
(Occupnl. Hyg.) †Hon. Lectr.
Lumb, G. A., BSc *Lond.*, PhD
(Med Chem.) Lectr
Longson, D., MB ChB, MRCP
(Clin. Endocrinol.) †Lectr
Wade, E. G., BSc MD, MRCP (Cardiol.) Lectr
Wood, G. C., BSc PhD *Leeds*
(Biochem. in Dept. of Rheumatol.) Lectr.
Howell, J. B. L., BSc PhD MB BS *Lond.* Lectr
Wynn, C. H., BSc PhD *Wales*
(Biochem. in Dept. of Rheumatol.) Lectr
Williams, R. T., BA MB BChir *Camb.*,
MRCP Lectr
Howitt, G., MB ChB, MRCP (Cardiol.) Lectr.
Bowker, J. R., MB ChB *Leeds*
(Occupnl. Health) †Hon. Asst. Lectr
Hughes, G. O., MC, MB ChB *Liv.*, DPH *Lond.*
(Occupnl. Health) †Hon. Asst. Lectr.
McLean, A. S., MB ChB *Edin.*
(Occupnl. Health) †Hon. Asst. Lectr
Scott, T. S., MD *Glas.*
(Occupnl. Health) †Hon. Asst. Lectr.
Roscoe, Margaret H., BSc PhD *Lond.*, MB
ChB Res Asst, Tutor
Dodwell, Beatrice (Nursing Technique) Demr.
Berlyne, G. M., MB ChB, MRCP
(on leave) Tutor
- Neurology**
Ferguson, F. R., MD DPH, FRCP
†Reader, Dir. of Neurol. Sub-Dept.
Smyth, G. G. E., MD, FRCP
(Med. Neurol.) †Lectr
Laversedge, L. A., MD *Duke*, BA BSc MB
ChB, MRCP (Med. Neurol.) †Lectr

Neuro-Surgery, see Surg

Obstetrics and Gynaecology

- Morris, W. I. C., MB ChB *Edin.*, MSc,
FRCSEd, FRCOG Prof., Dir. of Dept.
Walker, A. H. C., MB BS *Lond.*, FRCOG
Reader
Langley, F. A., MSc MB ChB
(Obstetrical & Gynaecological Pathol.)
Sr. Lectr
Bailey, K. V., MC, MD, FRCOG, MRCP
(Clin. Obstet. & Gynaecol.) †Lectr
Gerrard, E. A., MD, FRCOG
(Clin. Obstet. & Gynaecol.) †Lectr
Newton, R., MD, FRCOG
(Clin. Obstet. & Gynaecol.) †Lectr.
Liebert, Katharine I., BSc MB ChB, FRCS
(Clin. Obstet. & Gynaecol.) †Lectr.
Burslem, R. W., MD
(Clin. Obstet. & Gynaecol.) †Lectr

- Hartley, J. B., MD *Durh.*, DMRE *Camb.*,
FFR (Radiol. also Child Health) †Lectr
Rickards, C. E. B., MB ChB, FRCOG †Lectr
Fitzgerald, T. B., DSC, MB ChB *Birm.*,
FRCSEd
(Clin. Obstet. & Gynaecol.) †Lectr
Thomson, R. M., MB ChB Lectr

Ophthalmology

- Duthie, O. M., MD, FRCS
†Reader, Dir. of Ophthalmol. Sub-Dept.
Naylor, E. J., MScTech PhD
(Ophthalmic Optics) Res. Fellow
†Hon. Lectrs. (Clin. Ophthalmol.)
Janus, F., BSc MD
Scott, A. S., MB ChB *Glas.*, FRCSEd †Clin. O
Smith, S. B †Clin. O
Blaxter, P. L., MA MB BChir *Camb.*,
FRCS †Clin. O
Dark, A. J., MD *Wales*, FRCSEd Lectr

Otolaryngology and Audiology

- Lambert, V. F., MD ChM, FRCS
(Otolaryngol.) †Prof., Dir. of Dept.
Ewing, Sir Alexander, MA *Edin.*, PhD
(Educn. of the Deaf) Ellis Llwyd Jones
Prof
Lawson, H. P., FRCSEd
(Clin. Otolaryngol.) †Hon. Lectr.
Young, N. A. J., MB ChB, FRCSEd
(Otolaryngol.) †Lectr
John, J. E. J., BSc *Wales* (Audiol.) Lectr
Owrid, H. L., MA (Audiol.) Lectr
Harrison, K., MD, FRCS
(Clin. Otolaryngol.) Hon. Lectr
Taylor, I. G., MB ChB DPH
(Clin. Audiol.) Lectr
Chadwick, D. L., MD, FRCS
(Clin. Otolaryngol.) †Hon. Lectr.
Brown, Betsy, MB ChB *Glas.*, FRCS
(Otolaryngol.) Lectr.

Pathology and Pathological Anatomy, see also Obstet. & Gynaecol. and Ophthalmol.

- Campbell, A. C. P., MB ChB *Edin.*, MSc,
FRCPEd (Pathol. & P. Anat.) Procter Prof
Whitehead, R., DSc MD Reader
Fairbrother, R. W., DSc MD, FRCP
(Clin. P.) †Hof. Reader
Langley, F. A., MSc MB ChB
(Obstetrical & Gynaecological Pathol.)
Sr. Lectr.
Ball, J., BSc MD
(in Dept. of Rheumatol.) Sr. Lectr.
Yates, P. O., MD (Neuro-P) Sr. Lectr
Gowenlock, A. H., MSc MB ChB PhD
(Chem. P.) Sr. Lectr
Williams, G., MD *St. And.* Sr. Lectr.
Lempert, H., MSc MD (Clin. P.) †Hon. Lectr.
Varley, H., MSc (Clin. P.) †Hon. Lectr
Jennison, R. F., MD *Lond.*, MRCP
(Clin. P.) †Hon. Lectr.
Davson, J., MB BS *Lond.* †Hon. Lectr.

Schwarz, V, BSc Lond, PhD (Chem P) Lectr.
 Baker, S. B de C., MD Lectr.
 Sclarc, G, MD Glas. Lectr.
 Steward, J. K., MD, MRCP

(also Child Health) Lectr.
 Jackson, F. B., MB ChB (Cln P.) Hon. Asst. Lectr.

Coburn, J. G., BSc MD (Dermatol., Histo-Pathol.) †Asst Lectr
 Nicol, A., MB ChB *Aberd* Asst Lectr
 Ellis, Mrs Margaret Redford, BSc PhD (Chem P) Asst Lectr

Corrin, B., MB BS Lond Asst Lectr
 Williams, G E G, MA MB BChir *Camb*, MRCP Asst Lectr.

Brundeleit, J. P., LicMedSurg *Madrid* Asst Lectr

Cook, T. A., MB ChB Asst Lectr

Holt, Shirley, MB ChB Asst Lectr.

Fox, H., MB ChB Asst Lectr.

Platt, D. S., MSc †Demr

Pharmacology, Materia Medica and Therapeutics

Macdonald, A. D., MA MD *Edin*, MSc (Pharmacol., Mat. Med. & Therapeutics) Leech Prof.

Bedford, T. H. B., MSc MB ChB *Leeds*, DSc, MRCP (Pharmacol.) Lectr

Jackson, H., MSc MB ChB PhD (Exper. Chemotherapy) †Hon Lectr

Hunter, A. R., MD *Glas*, FRFPSCGlas, FFARCS (Pharmacol.) †Hon. Lectr.

Starmer, G. A., MSc (Pharmacol.) Asst Lectr.

Pharmacy

Bullock, K., MSc PhD, FRIC Prof.

Meyville, C., BPharm Lond., PhD Sr Lectr.

Rigby, G. J., BSc Lond., MSc PhD DipBact Sr Lectr.

Woodhead, H. B., MSc Lectr

Bellis, D. M., BSc PhD Lectr

Tallentire, A., MSc PhD (on leave) Lectr

Thomas, J., MSc PhD Lectr

Thomas, W. G., MSc Asst Lectr.

Edwards, B. R., MSc Asst Lectr

Stoker, J. R., MSc Asst. Lectr

Robinson, J. B., MSc Asst Lectr

Benson, G. G., MSc Demr

Clough, D., BSc Demr

Buckley, D., MSc Demr.

Hambleton, R., BSc Demr.

Preventive Medicine, see Soc. & Prev. Med.

Psychiatry

Anderson, E. W., MD *Edin*, DPM Lond, MSc, FRCP Prof., Dir. of Dept

Hoenig, J., MD *Prague*, DPM Lond Reader

Kitching, E. H., MD *Leeds*, MRCP †Lectr.

Markowe, M., MD DPH Lond. †Lectr.

Crowe, P. M., MB ChB, DPM (Cln. P.) †Lectr

Kenna, J. C., MA *Calif.*, BA *Syd*, BEd *Melb* (Cln. Psychol.) Lectr.

Blair, R. A., MB ChB *Glas.*, FRFPSCGlas (Cln P.) †Lectr.

Malloy, T. R., MD *Belf* (Child P.) †Lectr

Mather, N. J. de V., MA *Oxon*, MB ChB †Lectr.

Cunningham, R. C., MB ChB DPH *Glas.*, DPM (Mental Deficiency) †Lectr

Rose, D. J. (Mental Deficiency) †Lectr

Hamilton, Marian W., BA *Lond.* & *Oxon*. (Psychiatric Soc Work) Lectr.

Reed, G. F., MA *Camb*. (Cln. Psychol.) Lectr.

Calder, W., MB ChB *Edin*, DPM Lond. (Criminal P.) †Lectr.

Hopkinson, G., MB ChB DPM Lectr

Harris, F. J., BA *Oxon*, CertPsychSocWork (Psychiat. Soc Work) Lectr.

Wadsworth, W. V., BSc MB ChB DPM, MRCP †Asst. Lectr.

Young, R. M., MB ChB DipPsych *Edn.* (Cln. P.) †Asst Lectr.

Radiology

Gray, E. D., MA MD *Aberd*, DMRE *Camb*, FFR †Lectr., Dir. of Radiol Sub-Dept.

Meredith, W. J., MSc, FIP (Radiol Phys) †Hon. Lectr.

Reid, R. G., MB ChB DMRE *Liv*, FFR †Asst Lectr

Locke, G. B., MB ChB, FFR †Asst. Lectr.

Wilding, J. H., MB ChB †Hon Asst. Lectr.

Fawcett, J. B. †Hon Asst Lectr

Stephenson, S. K., BScTech (Radiol. Phys.) Tutor

Radiotherapy

Paterson, J. R. K., CBE, MC, MD *Edin.*, DMRE *Camb.*, FRCS, FFR

(Radiotherapeutics) †Prof.

Dobbie, J. L., BA DMRE *Camb*, MB ChB *Edin.*, FFR (Cln. Radiotherapy) †Lectr.

Easson, E. C., MD *Glas*, FFR †Asst. Lectr.

Cole, Mary P., MSc MD *Belf*, FFR †Asst. Lectr

Gibb, R., MB ChB *Aberd.*, FFR †Tutor

Warrington, H. C., MB ChB, FFR †Tutor

Pointon, R. C. S., MA MB BChir *Camb*, FFR Tutor

Sherrah-Davies, E., MA MB BChir *Camb.*, FRCS, FFR †Tutor

Rheumatic Disease, see Med. and Pathol.

Social and Preventive Medicine

Brockington, C. F., MA MD DPH *Camb.*, MSc, MRCP Prof., Dir. of Dept.

Logan, R. F. L., MD *Belf*, CPH, MRCP Reader

Gawne, S. C., MD *Lond.*, DPH *Liv*. (Pub. Health Admin.) †Lectr.

Brown, C Metcalfe, MD *Glas.*, DPH (Prev. Med.) †Lectr.

Burn, J. L., MD DHy DPH *Durh*. (Pub. Health) †Lectr.

Susser, M. W., MB BCh *Rand*, MRCPed Lectr.
Grant, A. W., MScTech

(Pub. Health Engin) †Lectr.

Adelstein, A. M., MD *Rand*

(Med Stats) Lectr.

Kushlick, A., MB ChB *Rand*, MRCP †Lectr.

Leeson, Joyce E., MB ChB *Dph* Asst Lectr

Wilkie, Elizabeth E., BA *Lond*

Health Visitor, Tufos

Maish, Nora

Nurse Tutor

Surgery

Boyd, A. M., MB BS *Lond*, MSc, FRCS

Prof, Dir of Dept

Riddell, A. G., MBE, MS *Lond*, FRCS Reader

Holt, R. L., OBE, MD, FRCS †Lectr.

Simmons, H. T., BSc MD ChM, FRCS †Lectr.

Nicholson, W. F., MA MD MChir *Camb.*,

FRCS

Moore, T., MS MD *Dub*, FRCS †Lectr.

Bloor, K., MD, FRCS Lectr.

Johnson, R. T., OBE, MA MB BChir *Camb*,

FRCS

(Neuro-Surg.) †Lectr., Dir of Neuro-

Surg Sub-Dept

Jennett, W. B., MB ChB *Liv*, FRCS

(Neuro-Surg.) Lectr

Griffiths, D. LI, MBE, BSc MB ChB,

FRCS

(Orthop. S.) †Lectr., Dir of Orthop. S

Sub-Dept

Chainley, J., BSc MB ChB, FRCS

(Clin Orthop. S.) †Hon Lectr

Sayle-Creer, W., MB MChOrth *Liv*,

FRCS

(Orthop. S.) †Hon Lectr

Cullen, C. H., MCh *Belf*, FRCS, FRCSI

(Orthop. S.) †Hon Lectr.

Wilson, D. S. P., MA MCh BAO *Dub*,

FRCS, FRCSI

(Urological S.) †Lectr

Healop, T. S., MB ChB, FRCS

(Clin S.) †Hon. Lectr

Jelly, G. O., MA MCh *Oxon*, FRCS

(Clin S.) †Hon Lectr

Nicholson, W. A. B., BSc MB ChB,

FRCS

(Clin S.) †Hon Lectr

Rose, S. S., MB ChB, FRCS

(Also Lectr. in Surg. for Dent Stu-

dents) (Clin S.)

†Hon Lectr.

Champion, A. H. R., MBE, MB BS

DDSc *Melb*, FRCSEd

(Clin S.) †Hon Lectr.

Anacombe, A. R., MS *Lond*, FRCS †Lectr

Torrance, H. B., MB ChB, FRCSEd †Lectr

Thompson, H., MB ChB MChOrth *Liv*,

FRCS

(Orthop. S.) Lectr

Orr, W. McN., BA MB BCh BAO *Dub*

(Clin S.) Tutor

Jones, P. H., MVO, FRCS

†Lectr.

Surgical Pathology, see Surg

Tuberculosis

Wilson, T. McS., MC, MB ChB *Edm.*

†Asst Lectr

Turnbull, F. W. A., MB ChB *Edm.* †Asst. Lectr.

Venereal Diseases

Laird, S. M., BSc MD *Glas*, DPH *Liv.*,

FRFPGlas

†Lectr

Davey, A. C. C., MB ChB

†Tutor

Watt, L., MD *Aberd*

†Tutor

TECHNOLOGY

(at the Manchester College of Science &

Technology)

(see also Engineering, above)

Bowden, B. V., MA PhD *Camb*, MIEE

Principal of Coll. of Sci and Technol,

Dean of Fac

Biochemistry

Eddy, A. A., MA DPhil *Oxon* Prof

Hall, A. N., MScTech PhD Lectr

Rowell, E. V., MA PhD *Camb* Lectr

Dalby, A., BSc *Lond*, PhD *Leeds* Lectr

Hodgson, B., BSc PhD *Leeds* Asst. Lectr

Indge, K. J., BScTech Asst. Lectr

McIntosh, Philippa M., BSc *Birm* Asst Lectr

Carnie, J. A., BSc *Aberd* Asst Lectr

2 Demrs

Building

Harper, D. R., BArch *Liv*, PhD *Cape T.*,

FRIBA

Prof, Dir of Labs

McDonald, J. R. A. Lectr.

Dilworth, R. Lectr.

Garrett, C. H., BScTech Lectr.

Barnes, V. C. Lectr.

Boucher, C. T. G., MScTech PhD Lectr

Harwood, T. A. (Quant Surveying) Lectr

McKay, J. K., BA BScTech Lectr

Burgess, R. A., BArch *Liv* Lectr

Simpson, J. W., BSc *Lond*. Lectr.

Jones, J. H. C., BA *Camb* (Indust. Des.) Lectr

Chemical Engineering, Fuel Technology

and Metallurgy

Morton, F., MScTech PhD DSc, FRIC

(Chem. E.) Prof, Dir of Labs

Ross, T. K., MSc *PhD Lond*

(Chem. E.) Reader

Norman, W. S., MSc *Liv.*, PhD *Lond*.

(Chem. E.) Reader

Holness, H., MSc *Leeds*, FRIC

Sr. Lectr, Asst Dir of Labs.

Bray, H. J., BSc(Eng) PhD *Lond*, FIM

(Metall.) Sr. Lectr.

Stainthorp, F. P., PhD *Lond*, BScTech

(Chem. E.) Sr. Lectr.

Evans, P. E., MA PhD *Camb*

(Metall.) Sr. Lectr

Handfold, C., MMet *Sheff*, FIM

(Metall. & Assaying) Lectr

Bagg, D. G., BSc *Lond*, FRIC

(Chem. E.) Lectr.

King, P. J., BSc PhD *Birm* (Chem. E.) Lectr

Sagarra, A., LicenCQ *Barcelona*,

PhD *Birm* (Fuel Technol.) Lectr

Curtis, C A, DiplIng Chem DrTechSc
E.T.H. Zurich (Chem E) Lectr
 Scully, D B, MA Oxon., BSc PhD Lond
 (Fuel Technol) Lectr
 Rushton, A., MScTech (Chem. E) Lectr.
 Kitchingman, W J., BSc *Sheff*, MScTech
 PhD (Metall) Lectr
 Gay, B, BSc PhD *Birm.* (Chem E) Lectr
 Abrams, H J, BSc *Wales*, BSc(Econ) *Lond*,
 DipChemEng *U C Lond* (Chem E) Lectr.
 Clegg, G T, BScTech Lectr
 Menzies, I A, BSc *St And*, DIC,
 PhD *Lond* (Metall.) Lectr.
 Adams, R. W, BSc *Lond*, MScTech
 (Metall) Lectr
 Postlethwaite, J, MScTech (Chem E) Lectr
 Haqjoo, B, BSc *Birm*, DipChemEng
 (Chem E) Lectr
 Loh, S T, BSc *Shanghai*, PhD *Birm*
 (Chem E) Lectr
 Wood, G. C, MA PhD *Camb*
 (Chem E) Lectr
 Edwards, R. J, MScTech (Metall) Asst Lectr
 Bell, F D, MScTech (Metall) Asst. Lectr
 Ponter, A. B, BSc *Birm* (Chem E) Asst. Lectr.
 3 Demrs

Chemistry, see also above

Haszeldine, R N, DSc PhD *Birm.*, MA
 ScD PhD *Camb*, FRIC Prof, Dir. of Labs.
 Neale, S. M, MSc *Liv*, DSc
 (Macromolecular C) Reader
 Baddeley, G, MSc PhD *Sheff*, DSc,
 FRIC (Org C) Reader
 Rose, F. L, OBE, PhD *Lond*, DSc *Nott*,
 FRS Hon Reader
 Ward, A F H, MA PhD *Camb*, BSc *Lond*,
 FRIC (Phys C) Sr Lectr
 Steiner, H M E, PhD *Camb*,
 DrPhil *Vienne* Sr Lectr
 Pethica, B. A., DIC, BSc *Lond.*,
 PhD *Lond.* & *Camb* Sr Lectr
 Lappert, M F., PhD DSc *Lond*, FRIC
 Sr. Lectr
 Kakabadse, G J, DiplIng DrIng
T H Berlin Lectr
 Holt, G, MScTech PhD Lectr
 Thompson, A R, BScTech PhD
 (Colouring Matters) Lectr
 Crofts, P C, BSc PhD *Lond* Lectr
 Bartindale, G W. R., MA BSc DPhil *Oxon*
 Lectr
 Dunn, A. S, BSc *Aberd*, PhD *Birm.* Lectr.
 Smith, N H. P., MScTech PhD Lectr.
 Crowder, M M, MScTech Lectr
 Heslop, R B, MSc *Durh.*, FRIC Lectr
 Simmons, R F, BSc PhD *Lond* Lectr.
 Heaton, G S., BScTech PhD Lectr
 Banks, R E, BSc PhD *Durh* Lectr
 Goldwhite, H, BA PhD *Camb.* Lectr
 Davies, J. E, BSc PhD *Nott* Lectr.
 Lee, J, BSc PhD *Leeds* Lectr
 Honeyman, J., MA PhD *St And* Hon Lectr
 Braithwaite, R. S. W, BSc PhD *R'dg.* Lectr
 Birchall, J. M., BA *Camb.* Lectr

Newlands, M J, MA PhD *Camb* Lectr.
 Leigh, G. J, BSc PhD *Lond* Lectr
 Smith, S, MA BSc DPhil *Oxon* Lectr.
 Gibson, M S, MA DPhil *Oxon* Lectr
 Theobald, D W, MA BSc DPhil *Oxon*. Lectr
 Tait, P J T, BSc PhD *Aberd.* Lectr.
 Fields, R, BA *Camb.* Asst Lectr.
 Brown, J, BSc *Lond* Asst Lectr
 Robinson, P. J., BSc Asst. Lectr.
 Rasburn, J W, BSc *Lond*, Demr
 Lees, W. A., BScTech PhD Demr.
 Pedley, J B, MSc PhD Asst. Lectr
 Taylor, D R, BA *Camb* Asst. Lectr
 Murray, A W, BSc *Aberd* Asst. Lectr
 6 Demrs

Chemistry, Textile

Peters, R H, PhD *Lond.*, BSc *Lond* &
Manc Prof, Dir of Labs
 Turner, H A, MSc *Sheff*, FRIC, FTI Reader
 Hudson, F L, PhD *Calif*, MSc, FRIC
 (Papermaking Technol.) Sr Lectr
 Egerton, G S, MSc PhD *Lond*, FTI Lectr
 Spark, L C., BSc PhD *Leeds* Lectr
 Johnson, Alan, MScTech PhD Lectr
 Kirk, L A, MScTech (Paper Technol) Lectr
 Young, J H., BSc *Lond.*, FRIC
 (Paper Technol.) Lectr.
 Harland, W G, BSc PhD *Lond*. Lectr
 McGregor, R., BSc PhD *Leeds* Lectr
 Howard, G J., BSc PhD *Nott* Lectr.
 Peel, J D, BSc *Law* (Paper Technol) Lectr
 Nevell, T P, BSc PhD *Lond*, FRIC Lectr
 Cannon, C G, BSc *Lond*, FIP 1 Sp Lectr
 Thompson, A. B, BA *Camb* 1 Sp Lectr
 Aspland, J R, MSc *Leeds* Asst Lectr.
 3 Demrs.

Engineering, Electrical, see also p. 1090

Prof., Dir. of Labs
 Adamson, C, MSc(Eng) *Lond.* Reader
 Barratt, N M, MScTech Lectr.
 Hancock, N. N., BSc(Eng) *Lond*,
 MScTech Lectr.
 Attree, V H., BSc(Eng) *Lond* Lectr
 Hindmarsh, J, BSc(Eng) *Lond*. Lectr.
 Peery, F R, MScTech, MIEE
 (High Voltage E.) Sp. Lectr.
 Taylor, P. L., MA *Camb*
 (Automatic Control) Sp. Lectr
 Mathews, P, BA *Camb.* Sp. Lectr
 Nellist, B. D, MScTech Lectr
 Horsley, B, BSc *Birm*, MScTech Lectr
 Rawcliffe, J, MScTech Lectr.
 Gledhill, C S, BScTech Lectr.
 Heath, F G, BSc Lectr.
 Baker, W. P, BSc(Eng) *Lond*.
 (High Voltage E.) Sp Lectr.
 Walker, F, BSc *Edin* Lectr.
 Nightingale, J. M, BScTech PhD Lectr
 Kuffel, E, MSc PhD *N U.I.* Lectr.
 Hartley, M. G, MScTech Lectr.
 Heaton, A. G., BSc *Birm* Lectr.
 Reeve, J, MScTech Lectr.

Knowles, J. B., MScTech Asst Lectr.
 Whitehead, R. W., MScTech Asst Lectr.
 4 Demrs.

Engineering, Mechanical, see also p 1090

Johnson, W., BSc Lond., BScTech DSc
 Prof, Dir. of Labs
 Koenigsberger, F., DiplIng Berl, MScTech
 DSc, MIMechE (Machine Tool E) Prof
 Lamble, J. H., MEng PhD Law, DSc,
 MIMechE (Strength of Materials) Reader
 Candle, G. S., BSc Durh., MScTech
 PhD
 Johnson, E., BSc Edin, MIMechE Sr Lectr.
 Hatton, A. P., MScTech PhD Lectr.
 Schiffer, G. R., BSc(Eng) Lond. Lectr.
 Parker, J., MScTech PhD Lectr.
 Royle, J. K., MScTech PhD Lectr.
 Fielding, B. J., BScTech Lectr.
 Kettlewell, J., BSc Lectr.
 Barash, M. M., BSc DiplIng Haifa, PhD Lectr.
 Skorecki, J., BSc(Eng) Lond., MScTech
 PhD
 Oxley, P. L. B., BSc PhD Leeds Lectr.
 Baker, H. J., MScTech Lectr.
 Kitching, R., BSc(Eng) Lond., MSc Nott. Lectr.
 Vasudevan, M., BE Madr, MS Stan, ME Harv. Lectr.
 Donaldson, I. S., BSc St And, PhD Lectr.
 Bell, R., MScTech Lectr.
 Thornley, R. H., MScTech Lectr.
 Needham, G., MScTech Asst Lectr.
 Duncan, J. L., BE(Mech) Melb Asst Lectr.
 Travis, F. W., BScTech Demr.

Engineering, Municipal

Prof, Dir of Labs
 Morgan, E. Ll, BSc Wales, MScTech Sr Lectr.
 Tait, G. B., BSc Edin, MScTech Lectr.
 Chisholm, D. S., MEng Liv Lectr.
 Spencer, E., MScTech Lectr.
 White, J. B., BScTech Lectr.
 Coackley, P., PhD Lond, BScTech
 (Chem appl to Munic. E) Lectr.
 Collins, J. C., BSc(Eng) Lond, MSE Baltimore Lectr.
 Bish, G. M., BScTech Lectr.

Engineering, Structural

Merchant, W., MA Oxon., SM M.I.T., DSc Prof, Dir of Lab
 Gull, S. S., MScTech PhD, MIMechE Sr Lectr.
 McMinn, S. J., MEng Law, PhD Lectr.
 Smith, R. B. L., MScTech Lectr.
 Brotton, D. M., BSc Lond, PhD Leeds Lectr.
 Pannell, F. N., BSc(Eng) Lond, MScTech
 Lectr.
 Dooley, J. F., MSc Lectr.
 Williamson, N. W., BSc PhD Leeds Lectr.
 Robinson, J. L. Lectr.

Industrial Administration

Revans, R. W., BSc Lond., PhD Camb, MScTech Prof

Dew, R. B., MA Camb. & Manc, FCA Visiting Prof
 Roberts, A., MCom PhD Reader
 Wright, J. W., MA Camb. Sr Lectr.
 Jenkins, G., MCom Lectr.
 Dowdell, A., MA Oxon Lectr.
 Smith, P. L., MA Oxon Lectr.
 Johnson, R. S., BSc Wales Lectr.
 Butterworth, J., BA(Com) MScTech Lectr.
 McDonald, J. E., MA Edin Lectr.
 Parmenter, R., MA Camb Lectr.
 Tronchin-James, R. N. Lectr.

Mathematics, see also above

Kynch, G. J., DIC, BSc PhD Lond Prof.
 Shenton, L. R., PhD Edin, BSc Reader
 Neumann, Hanna, DPhil DSc Oxon. Sr. Lectr.
 Butler, R., MSc PhD Lectr.
 Bell, G. M., MA DPhil Oxon Lectr.
 Fagg, S. V., DIC, BSc Lond Lectr.
 Hogg, H. E., MA Camb Lectr.
 Fairbairn, W. McA., MA Glas, BA Camb., PhD Birm Lectr.
 Shepperd, J. A. H., MSc PhD Lond. Lectr.
 Shutrick, H. B., BSc PhD Leeds Lectr.
 Wiegold, J., MSc PhD Lectr.
 Wallington, P. A., MA Camb. Lectr.
 Bullough, R. K., BA Camb, PhD Leeds Lectr.
 Foster, F., BScTech PhD Lectr.
 Lodge, A. S., MA DPhil Lectr.
 James, R. A., BA Camb Lectr.
 Davis, A., MA Oxon, PhD Lectr.
 Roach, G. F., BSc Lond. Lectr.
 Sharp, Mrs. Betty D., BSc PhD Lectr.
 Barnett, S., BSc Asst Lectr.

Modern Languages

Jackson, H. S., MA Lectr.
 Standring, J., MA Camb & Manc. Lectr.
 Buxton, C. R., BA Lond, MA Lectr.
 O'Shea, D., BA Wales, DrPhil Vienna Lectr.
 Duckworth, A. A., BA Lectr.
 Furness, R. S., MA Wales Asst Lectr.
 Mullineaux, F. W., BA Camb Asst Lectr.
 Kloss, G. Asst Lectr.
 Marshall, A., BA Birm Asst Lectr.
 Stork, F. C., BA Birm. Asst Lectr.

Physics, see also above

Lapson, H. S., DSc Liv., MA Camb., MScTech, FIP, FRs Prof, Dir of Labs.
 Taylor, C. A., BSc Lond, DSc PhD, FIP Reader
 Woolfson, M. M., MA Oxon., PhD, FIP Reader
 Hargreaves, A., BSc MScTech PhD, FIP Sr. Lectr.
 Edmunds, I. G., MSc PhD Wales, FIP Lectr.
 Steeple, H., BSc R'dg, PhD Lectr.
 Fowweather, F., BSc PhD, FIP Lectr.
 Stanley, E., BSc PhD Wales, FIP Lectr.
 Geake, J. E., MSc PhD Lectr.
 Diamond, R., BA PhD Camb. Lectr.
 Darlow, S. F., MA PhD Camb Lectr.
 Peskett, Jean M., BSc Glas. Asst Lectr.

Harburn, G, BScTech PhD Asst Lectr
Latham, J, BSc Lond Asst Lectr

Textile Technology

Morton, W. E, MScTech, FTI Arkwright Prof
Vincent, J J., MSc Lond, FTI

Prof, Dir. of Labs

Hearle, J. W. S., MA Camb., PhD, FIP Sr Lectr
Thomas, I. H., BSc PhD Wales Sr Lectr
Churnside, J Lectr
Taylor, J. S., MScTech Lectr
Latham, A. M., MScTech Lectr
Duxbury, V., BScTech Lectr
Wray, G. R., MScTech Lectr
Cusick, G. E., MScTech Lectr
Lord, P. R., BSc(Eng) Lond Lectr
Smith, J. B., BScTech Asst. Lectr

THEOLOGY**Biblical Criticism and Exegesis**

Bruce, F. F., MA *Aberd & Camb.*,
DD *Aberd* Rylands Prof
Farr, Rev. G., MA BD (O.T.) †Lectr.
Evans, Rev. O. E., MA *Leeds*, BD *Lond.*
(N.T.) Lectr
Anderson, Rev. A. A., BD *Lond*, BA *Oxon.*
(O.T.) Lectr.
Kraft, R. A., AM *Wheaton (Ill)*, PhD *Hav*
(N.T.) Asst Lectr.

Christian Ethics

Preston, Rev. Canon R. H., BSc(Econ) *Lond.*,
MA *Oxon.* Sp Lectr

Comparative Religion

Brandon, Rev. S. G. F., DD *Leeds*,
MA *Leeds & Manc* Prof
Smith, Rev. D. H., BA BD *Lond* Lectr

Coptic

Jelinková, Eve A. E., PhD Cand *Prague*,
DiplenLangOrAnc Dipld'ÉtSup *Paris*,
PhD *Liv.* Lectr.

Ecclesiastical History

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Ehrhardt, Rev. A. A. T., DrJur *Kongsberg*,
PhD BD *Camb* Prof
(Eccles H.) Bishop Fraser Reader
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BA *Liv*, BD PhD †Lectr.
Flitcroft, Rev. J., MA †Lectr.

Hellenistic Greek

Zuntz, G., DrPhil *Marburg*, FBA Reader

History of Doctrine

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Scott, Rev. P., BD *Lond.*, D'Theol *Marburg*
Kenworthy, Rev. F., MA BD †Lectr.
Cunliffe-Jones, Rev. H., BA *Syd.*,
BLitt *Oxon*, DD *Edin* †Lectr.
Kept, Rev. J. H. S., MA PhD *Camb.* †Lectr.

Philosophy of Religion

Thomas, Rev. J. H., BA BD *Wales*,
STM *U.T.S (N.Y.)* Lectr.

Semitic Studies

Beckingham, C. F., MA *Camb.*
(Islamic Studies) Prof.
Ullendorff, E., MA *Jerusalem*, DPhil *Oxon*
(Semitic Langs. & Lits.) Prof
Weis, P. R., LenPhil&HistOr *Louvain*, MA
(Post-Biblical Jewish Studies) Laski
Reader
Wernberg-Møller, P., CandTheol *Copenhagen*,
DPhil *Oxon* (Semitic Langs & Lits.) Lectr
Latham, J. D., MA DPhil *Oxon* (Arabic) Lectr.
Allegro, J. M., MA (Hebrew) Lectr.
Rubinstein, A., LL.M. (Mod Hebrew) Sp. Lectr.
Donald, T., BA (Akkadian) Asst. Lectr

SCHOOL OF EDUCATION

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Rudd, W. G. A., MA *Lond.* Organizing Tutor
Southgate, Vera, BCom MA *Birm.*
Organizing Tutor
Jones, A. L., MA *Oxon.*
Tutor to Commonwealth Teachers
Lectures in the School are also given by the Profs.
and Lectrs in the Depts. constituting the
Fac. of Education (see above)

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Staff Tutors—O. Ashmore, MA *Camb.*; F. W.
Chandler, MA *Lond.*; C. W. Davies, BA
Lond.; D. Garside, BA; R. M. Grant, MA
Camb.; D. C. Jones, MA *Wales*; J. C. L.
Malpass; Barbara M. Moor, MusB;
R. W. K. Paterson, MA *St.And.*; R.
Ruddock, BSc(Econ) *Lond.*; A. Wilson,
MA *Glas.*, DPhil *Oxon.*; W. M. Hughes,
BA *Oxon.*
Tutor in Child Care—Mrs. Nancy E. Lingard,
CertSocStud *Liv*, CertPsychSocWork.

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of Women Students in Lodgings. Mrs Margery
N. North, BA(Admin)

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MSc PhD, FRIC.

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Chancellor & Sec for Ceremonials Georgina Miller.

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UNIV. SCHOOL OF EDUCATION Dir. · S. Wiseman, BSc MED *Durh*, PhD Sec · A. E. G. Roberts, BA BSc *Wales*. Admin Asst · J. R. Quayle, MA *Oxon*.

FAC. OF ECONOMIC AND SOCIAL STUDIES Admin Asst & Sec. Helen M. Hall, BA (Admin)

FAC. OF EDUCATION Admin. Asst & Sec · L. Ball, MA

EXTRA-MURAL DEPT Admin Assts · Hazel Fletcher, P. Mussett

APPOINTMENTS Bd. Sec · B. J. Holloway, BSc MA *Oxon* Asst Secs · Joan Charlesworth, MA *Oxon*, J. Drinkall, BSc *Belf.*, W. R. McQuillan, MA *Edin*

STAFF OFFICER. H. D. C. McLeod, MA *St And*

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CATERING OFFICER · A. A. DUNSTAN.

CONVOCATION Chairman · L. Walsh, LLB; Clerk · E. J. Naylor, MScTech PhD.

ASSOCIATED COLLEGES

MANCHESTER COLLEGE OF SCIENCE AND TECHNOLOGY*

Founded 1955, previously established as the Municipal School (later College) of Technology, 1902

(Faculty of Technology in the University of Manchester)

Postal Address · Sackville Street, Manchester, 1

Telephone · Manchester, Central 3266

President—The Rt Hon. The Viscount Chandos of Aldershot, DSO, MC, Hon LLD

Vice-President—Sir John D. Cockcroft, OM, KCB, CBE, MA PhD *Camb*, Hon ScD *Camb* & *Dub*, Hon DSc *Oxon.*, *Lond.*, *Syd.*, ANU, *Mane.*, *Leeds*, *Birm* & *Lea.*, Hon LLD *Tor.*, *Glas.*, *Mab.*, *St And* & *Dal.*, Hon DEng *Sheff.*, Hon D.TechSc *TH Delft.*, MScTech, MIEE, FIP, FRS

Chairman of Council—Councillor M. P. Paniser, MA

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Principal—B. V. Bowden, MA PhD *Camb*, MIEE

Vice-Principal—W. E. Morton, MScTech, FTI

Industrial Vice-Principal—E. J. Dunstan, MSc *Birm*

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Bursar—R. G. McComas, MA *Oxon*.

Librarian—L. L. Ardern, FLA

The coll. is the direct descendant of the Manchester Mechanics Inst. founded in rented premises in 1824. The inst. was later transferred to a bldg. erected for the purpose, and in 1883 was reorganized as a technical sch. The present coll. bldg. was opened in 1902 as the Manchester Municipal Sch. (from 1918, Coll.) of Technol.

For further information, see under appropriate headings *below*.

For staff holding univ. titles, see under 'Technology' on pp. 1100-1103.

* Additional Member of the Association of Universities of the British Commonwealth

Recognized for external lectures in theol up to degree level. HARTLEY VICTORIA METHODIST COLLEGE, Alexandra Road South, Alexandra Park, Manchester, 16 (tel Manchester, Chorlton 3593), MANCHESTER BAPTIST COLLEGE, Brighton Grove, Rusholme, Manchester, 14 (tel Manchester, Rusholme 1131), NORTHERN CONGREGATIONAL COLLEGE, Whalley Range, Manchester, 16 (tel Manchester, Chorlton 5632), UNITARIAN COLLEGE, Daisy Bank Rd, Victoria Park, Man-

chester, 14 (tel Manchester, Rusholme 1016)

Recognized for instnctn in maths, phys., chem. and biol up to inter standard for BSc and BScTech: the HARRIS INSTITUTE, Preston, Lancs. (tel Preston 4016)

For 3rd yr. of BScTech course in metal mining (at present discontinued) the CAMBORNE SCHOOL OF METALLIFEROUS MINING, Camborne, Cornwall (tel Camborne 2167)

GENERAL INFORMATION

Owens Coll., named after a Manchester merchant who bequeathed £96,000 for its foundation, was opened in 1851. The Manchester Sch. of Med was united with it in 1872. The charter of 1880 by which the Victoria Univ was founded established a federal constitution and made Owens a constituent coll of the univ. Subsequently Univ Coll, Liverpool, and Yorkshire Coll, Leeds, were admitted as constituent colls. A new charter was issued on July 15, 1903, reconstituting the univ. under the name of the Victoria Univ of Manchester and freeing it from liability to admit or remain in assoc with any coll other than Owens, and on June 24, 1904, the act for the incorporation of Owens Coll with the univ was passed. In 1905, on the establishment of the fac of technol, the work of univ standard at the Municipal Sch (later Coll) of Technol was included in the univ. Under a charter granted in 1955 the Coll of Technol was established in 1956 as the Manchester Coll of Sci & Technol.

CONSTITUTION The governing body of the univ is the court of governors, whose exec cttee. is the council; the senate, which consists of all the profs of the univ, regulates academic matters. Facs are controlled by their own bds within the authority granted by the charter. The chancellor presides over the court, the council elects its own chairman, and the vice-chancellor presides over the senate.

Under the charter of 1955 the Coll of Sci and Technol operates under a court and council. Academic matters other than those appropriate to the bd of the fac of technol are regulated by an academic bd.

INCOME (year ended July 31, 1960) excl Coll of Sci and Technol. Total income, £2,726,507 (Treasury grants, 73.5 per cent; other govt depts, 2.3 per cent; fees, 10.4 per cent; endowments, 3.7 per cent; local authorities, 1.3 per cent; other items, 8.8 per cent).

Income of the Coll of Sci. and Technol. Total income, £1,423,729 (Treasury grants, 61.7 per cent; fees, 7.8 per cent; local authorities, 17.7 per cent; other items, 12.8 per cent.).

FACULTIES, DEANS AND TUTOR (1) Arts [incl sch. of archit], dean. Prof H. D. Westlake (Greek), tutor Dr. G. T. Hughes (comp. lit. studies); (2) sci, dean. Prof F. Fairbrother (inorg. chem.), sr tutor Dr. G. N. Burkhardt

(chem.), (3) law, dean Prof. B. A. Wortley (jurisp. internat law), tutor to articled clerks D. G. Barnsley, (4) med [incl dent and pharm.], dean Prof W. Schlapp (physiol), tutor Dr. E. L. Patterson (anat), dean of dent school, Prof H. G. Radden (dent surg), tutor to dent students S. D. Hart (dent surg), (5) music, dean Prof R. A. C. Oliver (educn), (6) econ & soc studies, dean Prof W. J. M. Mackenzie (govt), tutor J. Grundy (govt); (7) theol., dean Rev. Prof E. G. Rupp (eccles hist), tutor Rev Dr. W. G. Robinson (eccles hist), (8) technol, dean Dr. B. V. Bowden; (9) educn., dean. Prof S. Wiseman (educn).

UNIVERSITY PRECINCT Most of the bldgs erected from time to time during the past 50 yrs are situated about a mile from the centre of the city. The bldg for clin scis is $\frac{1}{2}$ mile distant, adjoining principal hospes. The main athletic grounds are at Fallowfield (30 acres), about 1 $\frac{1}{2}$ miles distant, and at Wythenshawe (68 acres), about 3 miles distant. Darbshire House (health centre) is $\frac{1}{2}$ mile distant.

LIBRARIES. In all, about 700,000 vols., in addition, there are over 130,000 publica. in microprint or microfilm. The main library (over 540,000 vols) is housed in a div. books concerning the arts and allied facs. In the new bldg., books on scientific subs. in the old (Christie) bldg., which also contains the libr. of the Manchester Museum. Med libr. (over 107,000 vols) is housed in the med. sch. Libr for deaf educn. (8666 vols) is available to all interested in educn of the deaf. The John Rylands libr. in Manchester includes the famous Althorp libr. and the Crawford MSS. It contains one of the most important collections of early printed books and Bibles in existence, many first editions of English and foreign classics, rare bindings, and an extensive collection of charters, manorial and legal records and family muniments relating to almost every county in England. The ancient Chetham libr. (65,000 vols.) has valuable mediev. MSS. and printed books of 17th and 18th cents.; it specializes in local hist. and topography. The municipal reference libr. (500,000 vols.) includes a technical and sci. libr of 90,000 vols. One of the most important sp. reference collections deals with British parliamentary papers from 1833, with a considerable no. of earlier date. The Coll. of

Sci & Technol libr (over 44,000 vols) is devoted to appl sci and technol and receives over 600 journals, of which about half are filed permanently.

LABORATORIES, ETC. Ample equipment for advanced study and res. in all depts. Outstation for physical res. (incl. Nuffield Radio-Astron. Labs) at Jodrell Bank in Cheshire; lab for res. in the mechanics of fluids at Barton aerodrome. Exper. grounds for hortic. in Manchester and outstation in Cheshire. The *Manchester Museum*, forming part of the univ. bldgs., and containing among other sp. depts the Flinders Petrie Egyptol. collection, is utilized for univ. teaching in zool, bot. and geol.

TEACHING HOSPITALS. Manchester Royal Inf., St Mary's Hs for Women and Children; Manchester Royal Eye H., Manchester and Salford H. for Skin Diseases; Royal Manchester Children's H., Christie H. and Holt Radium Inst., Manchester Chest Clinic, Withington H., Crumpsall H., Ancoats H.; Salford Royal H., Duchess of York H. for Babies, Booth Hall Children's H., Hope H.

DARBISSHIRE HOUSE HEALTH CENTRE provides med. care in a district of Manchester, in an exper. area the proper integration of prev. and curative services and an instrument for undergrad. educn. and for socio-med. res.

CENTRE FOR BUSINESS RESEARCH. On an initiative jly taken by Unilever Ltd. and the univ.'s dept. of econ., a centre for bus. res. is to be set up in Manchester. It will be financed by money from industry and, with assistance of co-operating firms, will study some of the difficult problems of bus. decisions, and ways in which econ., stat. and econometric knowledge can be used to help the decision-making of Brit. bus. Support has been guaranteed for an initial period of 7 yrs., and it is hoped to appoint first members of full-time staff within a few months. The project will be directed by Profs. C. F. Carter, J. Johnston and B. R. Williams.

SCHOOL OF EDUCATION (see also 'Teaching Staff', above). An area trg. organization consisting of the depts. of the fac. of educn. and the following trg. colls.: Bolton Technical Trg. Coll., Manchester Rd., Bolton (tel. Bolton 5110); Charlotte Mason Coll., Ambleside, Westmorland (tel. Ambleside 2168); Chorley Day Trg. Coll., Union St., Chorley, Lancashire (tel. Chorley 2516); De La Salle Trg. Coll., Hopwood Hall, Middleton, Manchester (tel. Middleton 4930); Didsbury Trg. Coll., Wilmslow Rd., Manchester, 20 (tel. Manc. Didsbury 1054); Elizabeth Gaskell Coll., Hatherage Rd., Manchester, 13 (tel. Manc. Rusholme 4446); Manchester Trg. Coll., Long Millgate, Manchester, 3 (tel. Manc., Blackfriars 7745); Padgate Trg. Coll., Fearnhead, nr. Warrington (tel. Warrington 32671); Sedgley Park Coll., Prestwich, Manchester (tel. Prestwich 2362); Sch. of Teacher Trg., Regional Coll. of Art, All Saints, Manchester, 15 (tel. Manc. Ardwick 3480).

ADMISSION. See Appendix III.

NON-MEMBERS OF THE UNIVERSITY may be admitted to classes subject to permission of prof. concerned and are required to give such evidence of proficiency as may be satisfactory to the vice-chancellor.

FIRST DEGREES 3 yrs. (by sp. permission, grads. of other approved univs. 2 yrs.)—BA pass, hons., BA(Theol.), BA(Mus.), BSc pass, hons., LLB pass, hons., MusB pass, hons., BA(Econ) pass, hons., BA(Admin), BD (after inter. courses in arts), BScTech, 4 yrs.—BA (hons. in mod. langs.—two langs.—and in Spanish and classical Arabic), BA(TP) pass, hons., BSc (hons. in pharmacy), 5 yrs.—BA (hons. in archit.), 5 yrs and 1 term—BDS, 6 yrs.—MB ChB. The BA(Econ) pass and BA(Admin) courses can be completed by attendance on evening lectures during not less than 4 sessions.

Hons. students of mod. foreign langs. may count attendance on approved courses for a term at a foreign univ. as equivalent to attendance at Manc.

Minimum attendance in the univ. for graduation—3 yrs. for bachelorships in 2 facs.—5 yrs.

BA with hons. may be obtained in any one of the following schs.: classics, Greek, Latin, Greek & Engl., Latin & Engl., Engl., French, German, Italian, Russian, Spanish, mod. langs., hist., Greek & anc. hist., Latin & anc. hist., Spanish & classical Arabic, German & philos., Engl. & philos., Engl. & classical Arabic, Engl. & hist. of art, oriental studies, archit., pol. & mod. hist., geog., mod. hist. with econ. & pol., philos., psychol., maths, biblical studies, maths & philos.

BSc with hons. may be obtained in any one of the following schs.: maths, maths & philos., engin. (civil, mech., electr., aeron.), phys., chem., zool., physiol., geol., bot., anat., psychol., metall., geog. & anthropol., pharm., gen. sci.

BScTech with hons. may be obtained in any one of the following schs.: mech. engin., electr. engin., civil engin. (civil, municipal or structural engin.), chem. (chem. or colouring matters), biochem., textile chem., paper sci., textile industries (gen. textile technol. or textile engin.), building, phys., chem. engin., fuel technol., metall., maths.

HIGHER DEGREES. Open to bachelors normally of 1 yr.'s standing—MA, MSc, MA(Econ), MScTech, 2 yrs.—LLM (1 yr. for persons who graduated LLB with honours in the univ.), MD, MDS, DDS, MEd, 4 yrs.—LLD, MusD, DD, 5 yrs.—ChM, unspecified—DSc. Open to masters or doctors of philosophy of the univ. only— LittD.

Open to grads. of other approved univs. through res. in Manc. during 2 (non-grads. and certain grads. 3) yrs.—MA, MSc, LLM, MDS, MA(Econ), MScTech, MEd (3 yrs. for persons other than those who have gained dipl. in educn. of Manc.). Grads. of other approved univs. of 4 yrs. (DD 6 yrs.) standing who have obtained the degree of master or one substantially equivalent thereto and spent 2 yrs. in study or res. in Manc. may qualify for the DSc, LLD, DD.

The PhD differs from the LittD and DSc in requiring a definite course of study, and is of a lower standard, though higher than the MA, MSc, and MStTech.

HONORARY DEGREES. LittD, DSc, LL.D., MusD, DD, MA, MSc, LL.M., MA(Econ), MStTech, MEd

The univ. does not award EXTERNAL DEGREES

DIPLOMAS Gen. linguistics, bacteriol., statistics, advanced study in sci., internat. law, advanced study in econ. & soc. studies, technical sci., audiol., teaching of Engl. overseas, youth work, 1 yr. postgrad., educul. guidance, educul. psychol. (child guidance), 1 yr., for approved teachers or psychologists, adult educn., 1 yr. for grads and qualified teachers, educn. of handicapped children, 1 yr. for qualified teachers with 5 yrs' experience, DPH, 1 yr., for registered practitioners, DPM, 8 terms, for registered practitioners, town & country planning, 1, 2 or 3 yrs (full-time or pt-time) according to qualifs., advanced study in educn., 3 yrs or (by sp. permission) 2 yrs., community nursing, 4 yrs., LDS, 5 yrs., archit., 5 yrs.

CERTIFICATES Psychiatric soc. workers, 1 yr., theol., 3 yrs., biblical knowledge, 1 yr.; technol. (assoc. coll. technol.), 3 yrs., technol. (distinction), 1 yr. after cert. in technol., grad. cert. in educn., 1 yr. (grads.), teacher's, 1 yr., art teacher's, 1 yr., cert. for teachers of the deaf, 1 yr. (grads. and certificated teachers), town and country planning, 2 yrs.

FEES Annual fees (including registration, tuition, exam., graduation and membership of library and, in the case of all full-time students, membership of students' union and athletic union) Bachelor's degrees in the humanities, £56—except for BA hons. in archit., first 3 yrs., £56, 4th and 5th yrs., £31, BA(TP), first 3 yrs., £56, 4th yr., £31, BA(Mus) and MusB, £56, £89 10s or £135 according to options selected, BD, £40 (2-yr. course) or £30 (3-yr. course). Bachelor's degrees in sci., £66, in technol., £66 10s, £80 or £100 MB ChB—first 5 yrs., £67, 6th yr., £34 (fees are also payable for residence for trng. in paediatrics and at the St. Mary's Hosps), BDS—first 4 yrs., £67 5s, 5th yr., £37 5s. Degrees of master and of PhD (a) not involving lab. work, £36 (MEd, £14); (b) involving lab. work, £46 (technol., £46 10s, £50 or £60). Other higher degrees LittD, DSc, LL.D., ChM, MD, DDS, DD, £25 on giving notice of candidature; MusD, £36 per session.

Diplomas. Bacteriol., internat. law, community nursing, audiol., educul. psychol. (child guidance), £66, gen. linguistics, stats., advanced study in econ. & soc. studies, educul. guidance, adult educn. (full-time), youth work, £56, advanced study in sci., (a) not involving lab. work, £36, (b) involving lab. work, £46, DPH, £35; DPM, pt. I, £45, pt. II, £90; LDS, first 4 yrs., £67 5s, 5th yr., £37 5s., archit., first 3 yrs., £56, 4th and 5th yrs., £31, town & country

planning, full-time, £36, pt-time, £10; tech. sci., £53 10s, £60 or £80; advanced study in educn., 2 yrs., £21, 3 yrs., £14, adult educn., pt-time, £17. **Certificates** Psychiatric soc. workers, grad. cert. in educn., cert. for teachers of the deaf, £56, theol., biblical knowledge, £4 per suby. per hour; teacher's cert., art teacher's cert., £5, exam. fee (plus tuition fees payable to coll.) attended.

ACADEMIC YEAR Oct. to June: 3 terms, 2 of 9 wks and 1 of 8 wks.

ADULT EDUCATION (see also 'Teaching Staff', above). Courses in adult educn. are conducted by the dept. of adult educn. for students in trg. for the teaching profession, and in the evening for the general public. Under the auspices of the jt. cttee. for adult educn. the extra-mural dept. provides facilities for extra-mural study at the univ. and at other centres. Sub-cttees. are concerned with the supervision of work in collaboration with the W.E.A., and with the univ.'s residential coll. Holly Royde Coll., 30 Palatine Rd., West Didsbury, Manchester, 20 (tel.: Manchester, Didsbury 4784). Tutorial classes, extension courses, public lectures, residential courses, and other facilities for adult students are arranged.

POSTGRADUATE AWARDS open to grads. of other univs. see p. 808

APPOINTMENTS BOARD, 316-324 Oxford Road, Manchester, 13. The services of the bd. are open to all students or grads. requiring posts or advice on careers.

CONVOCAION consists of all grads. since 1914 (earlier grads. admitted on payment of fee of 5s.). The duties and privileges of convocation include the election of the chancellor of the univ. District groups (Manchester, London, Yorkshire, North-Western, Bristol, Isle of Man, Oxford) of convocation provide social and other facilities for grads.

MANCHESTER TECHNOLOGY OLD STUDENTS' ASSOCIATION promotes cultural and social activities among past students. Branches exist in London and overseas.

STUDENT RESIDENCES, I. For men: Dalton Hall, Victoria Park, Manchester, 14 (tel.: Manc., Rusholme 1952; principal: P. M. Bromley, MA Oxon.), £169 for 27 weeks, 117 students; Hulme Hall, Victoria Park, Manchester, 14 (tel.: Manc., Rusholme 1343; warden: Rev. J. Flitcroft, MA), £165 for 27 weeks; St. Anselm Hall, Victoria Park, Manchester, 14 (tel.: Manc., Rusholme 1398; warden: Rev. Canon R. H. Preston, BSc(Econ) Lond., BA Liv., BD PhD), for 27 weeks, 120 students; Northern Congregational Coll., Whalley Range, Manchester, 16 (tel.: Manc., Chorlton 5632; principal: Rev. W. G. Robinson, MA Oxon., BA Liv., BD PhD), from £150 per session; Unitarian Coll., Daisy Bank Rd., Victoria Park, Manchester, 14 (tel.: Manc., Rusholme 1016; principal: Rev. F. Kenworthy, MA BD), £150 per session; Montgomery House, Alexandra Park, Manchester, 16

(tel. Manc, Moss Side 3434, warden C Hall, BSc), £155 for 27 weeks, variable up to 60, Hartley Victoria Methodist Coll, Alexandra Rd South, Manchester, 16 (tel. Manc, Chorlton 3593, principal Rev P Scott, BD Lond., DTheol Marburg), £150 per session, Woolton Hall, Fallowfield, Manchester, 14 (tel. Manc, Rusholme 7244, warden G. T. Ashley, BSc MD), £171 per session, 180 students, Needham Hall, Spath Rd., West Didsbury, Manchester, 20 (tel. Manc, Didsbury 9262, warden W. R. Ward, MA DPhil Oxon), £171 per session, 127 students, Allen Hall, Wilmslow Rd, Fallowfield, Manchester, 14 (warden D. M. Leahy, MA Oxon), fees not yet fixed, 120 students II For women. Ashburne Hall, Fallowfield, Manchester, 14 (tel. Manc, Rusholme 4351, warden Kathleen G. Gough, BA), £145 per session, approx 205 students; Langdale Hall, Victoria Park, Manchester, 14 (tel. Manc, Rusholme 1385, warden Mrs Phyllis M. White, BA), £145 per session, 118 students, Ellis Lywyd Jones Hall, Talbot Rd., Old Trafford, Manchester, 16 (tel. Manc, Trafford Park 3166, warden Mrs Edna Singleton), £145 per session, 80 students, St Gabriel's Hall, Victoria Park, Manchester, 14 (tel. Manc, Rusholme 1718, warden Mother Maria Benigna, BA), £135 per session, 67 students

STAFF HOUSE on main univ. site

UNIVERSITY MILITARY AND AIR FORMATIONS
(a) Officers trg corps (T.A.), C.O. Lt.-Col R. St. G. T. Harper, (b) W.R.A.C. sub-unit, admin officer Major F. M. Cook (W.R.A.C.), (c) univ. air squadron R.A.F., C.O.: S/Ldr S. A. Harris, DFC.

STUDENT HEALTH SERVICE. A consultative and advisory service deals with health educn. amongst students.

THE UNIVERSITY UNION occupies a bldg on main univ. site, and provides social facilities for men and women students

THE FACULTY OF TECHNOLOGY UNION comprises all univ. students in the Coll. of Sci. &

Technol. An agreement exists providing reciprocal membership between the faculty of technol. union and the univ. union

ATHLETIC AND OTHER FACILITIES. The athletic grounds consist of (a) a ground of about 30 acres at Fallowfield (1½ miles distant), (b) a plot of land of about 3 acres adjoining Old Hall Lane, Fallowfield (1½ miles distant), (c) about 68 acres of land at Wythenshawe (3 miles distant). The athletic grounds of the coll. of sci. and technol. are in Rusholme. The McDonnell Centre and Holt Gymnasium (Dir. R. St. G. T. Harper, MA Oxon.), which are situated close to the univ., provide generous facilities for physical educn. and recreation, including a covered swimming-bath.

PUBLICATIONS. (1) Periodical (a) *Calendar* (Sept.), 7s. and 5s.; *Exam. Papers*, 9d.-3s. a set, *Manchester School*, Jan, May and Sept (economic and commercial), £1 p.a. (\$3 U.S.A.); departmental prospectuses (April-June), *Annual Report of Coll. of Sci. & Technol.* (b) Also pubd by univ. press: publishers of Chetham Soc., Manchester; *Bulletin of John Rylands Libr.*, *Journal of Semitic Studies*; journals and papers of the Rhodes Livingstone Inst., Northern Rhodesia (c) Student publications *The New Victorian* (mag.), *Medical School Gazette*. (2) Histories *The Owens College: its Foundation and Growth, and Connexion with the Victoria Univ.*, by Joseph Thompson, Manchester, J. E. Cornish, 1886 *The Owens College*, by F. J. Hartog, Manchester, J. E. Cornish, 1900 *Chapters in the History of Owens College and of Manchester Univ.*, 1851-1914, by E. Fiddes, Manchester Univ. Press, 1937. *Portrait of a University*, by H. B. Charlton, Manchester Univ. Press, 1951

UNIVERSITY PRESS, 316-324 Oxford Rd., Manchester, 13 (see also 'Admin. and Other Staff', above) Establd. 1902. The object of the press is to publish works of learning and res. in all branches of knowledge, but more general publishing is also undertaken. All official calendars, prospectuses, etc., of the univ. are also issued by the press. Further information from the sec.

THE YEAR 1960

PRINCIPAL BENEFACTION. Granada T.V. Network, £150,000 for establ. of dept. of drama

MAJOR BUILDING DEVELOPMENTS. Bldgs completed. Williamson Bldg (providing accomm. for depts. of geol. and maths)

NEW DEPARTMENTS AND CHAIRS. Chairs of radio-astron., radiotherapeutics, inorg. chem., prev. dent., Amer. hist. and instns., computer engin.

RETIREMENTS. Prof. R. A. Eastwood (Engl. law); Prof. T. Fish (Mesopotamian studies); Prof. F. C. Thompson (metall.), D. C. Henry (colloid phys.)

RESIGNATIONS. H. G. Alexander (philos.), apptd. to teaching post; H. Allred (dent. surg.),

apptd. as lectr., London Hosp. Med. Coll.; Prof. M. S. Bartlett (math. stats.), apptd. to chair of stats., Univ. Coll., Lond.; Dr. D. M. Bunnie (phys.), apptd. lectr., Imperial Coll., Lond.; Dr. D. M. Bowett (law), apptd. lectr., Camb.; W. B. Brown (theoret. chem.), apptd. lectr., Edin.; Dr. J. Butler (med.), apptd. to post at Calif.; Dr. J. H. Cairns (metall. technol.), apptd. to post in industry; P. W. Campbell (govt.), apptd. to chair of pol. econ., R'dg.; J. T. Chamberlain (textile chem.), apptd. to teaching post; J. B. Cullingworth (soc. admin.), apptd. to post in dept. of soc. studies, Durh.; J. D. Culverwell (sec., appointments board), apptd. to post in industry; Prof. S. Devons (phys.), apptd. to chair of phys., Col.; D. W. Elliott (law), apptd. to chair of law, Durh.;

S Gartside (maths, technol), apptd to post in educn broadcasting for B.B.C., J. R. Giundy (dent surg), apptd. sr lectr, Birn; Dr. I. H. Heslop (dent surg), apptd to post on S.W. metropolitan hosp. bd., May Irvine (tutor for psychiatric soc workers), apptd probation tig officer with Home Office, Dr. H. G. Koenigsberger (econ. hist.), apptd to chair of mod. hist, Nott; Dr. O. E. W. R. Kurth (astron), apptd. sr. lectr., Durh., Dr. J. Mackinnon (cardiol), apptd. consultant cardiologist, Birn regional hosp. bd., Dr. O. E. Potter (chem. engin, technol), apptd. reader in chem. engin, Melb., Dr. J. G. Nutt (engin), apptd to post in industry; Dr. J. S. Rowlinson (chem), apptd to chair of chem. technol, Imperial Coll., Lond; Dr. J. Simpson (soc. & prev med), apptd sr lectr, St And., Dr. G. A. Turner (chem engin, technol), apptd to post in industry; Mary G. Vaisey (maths, technol), apptd lectr., Birn, T. E. A. Verity (indust admin), apptd to teaching post, Winifred M. D. Wilson, on marriage

DEATHS Emer Prof W. H. Lang (cryptogamic bot. 1909-40), emer prof Sir Lewis B. Namier (mod hist. 1931-53)

HONORARY DEGREES *LLD*—Dr. E. R. Black, pres., Internat. Bank for Reconstrucn and Devel; P. B. Dingle, town clerk, Manchester; Sir Charles Renold, chairman, Manc. Univ. bldgs. cttee *LittD*—B. Dickins, Bosworth prof. of Anglo-Saxon, Camb.; I. A. Richmond, prof. of archaeol of Roman empire, Oxford. *DSc*—J. Piaget, prof. of exper psychol, Geneva. *MA*—Annie F. Cooke, pres., National Union of Teachers; Alderman N. Gratton, Derbyshire County Council; G. S. Green, jt hon sec., Manchester & district branch of Magistrates' Assocn; G. Halbert, chairman, Manchester Foot Hosp. Management cttee; C. E. Harrison, pres., Manchester Chapter of Comm

Distribution by Faculties. *Arts*, 1618; *econ & soc studies*, 552; *educn*, 427; *law*, 225; *med*, 707; *music*, 26; *sci*, 1826; *technol*, 1874; *theol*, 62 Total 7317.

Included in the figures above are:—

Postgraduate students, 1251.

New admissions, 2494

Students from other countries, 769 (Countries from which largest numbers came: India, 127; Nigeria, 68; Iraq, 56; Iran, 37; Pakistan, 36; U.A.R., 33)

DEGREES AWARDED (1959-60) *Arts* BA, 306; BA(Theol), 19, BA(Mus), 5; MA, 16 *Econ & soc studies* BA(Econ), 26, BA(Admin), 46, BA(Com), 43, MA(Econ), 10 *Educn* MEd, 8 *Law* LLB, 44, LL.M., 1 *Med* MB ChB, 91, BDS, 3, MD, 8, ChM, 1 *Mus* MusB, 9, *Soc* BSc, 436; MSc, 66, DSc, 4 *Technol* BScTech, 297, MScTech, 59. *Theol* BD, 11, DD, 1. *PhD* (all facs) 102

DIPLOMAS AWARDED (1959-60) *Arts* archit, 20, town & country planning, 18. *Econ. & soc. studies* soc. admin., 9, pub admin., 3. *Educn*: educn, 12, educn psychol, 9; audiol, 6 *Law* internat law, 1 *Med*: LDS, 16; psychol med, 5, pub health, 6 *Sci*: advanced studies in sci, 13; bacteriol, 10; stats, 1 *Technol*: chem engin, 8; indust. admin., 7; personnel management, 10; prodn. engin, 4; textile industries, 3.

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	5305	487
Women	1453	72
Total	6758	559

CERTIFICATES AWARDED (1959-60) *Arts*: town & country planning, 7 *Educn*: grad. cert. in educn., 131, cert. for teachers of the deaf, 73; teacher's cert., 960, art teacher's cert., 32, cert. in teaching handicapped children, 11. *Med*: psychiatric soc. workers, 18 *Theol*: bibl. knowledge, 14; theol, 8

UNIVERSITY COLLEGE OF NORTH STAFFORDSHIRE*§

Founded 1949

Postal Address · Keele, Staffordshire, England

Telephone · Keele Park 371

PRESIDENT—H R H THE PRINCESS MARGARET

VICE-PRESIDENTS—L. DAVIDS, OBE, JP; Alderman Sir ALFRED OWEN, CBE, JP; Alderman G L. BARBER, JP; Alderman Mrs ADA CHADWICK

PRINCIPAL—H M TAYLOR, CBE, MSc N Z, MA PhD Camb., FSA

VICE-PRINCIPAL—Professor W A C. STEWART, MA PhD Lond

HONORARY TREASURER—A. P WALKER, Hon BA

REGISTRAR—J. F N HODGKINSON, MA Oxon

LIBRARIAN—S. O STEWART, MA Glas

TEACHING STAFF

[†=Part-Time]

Biology		Hall, A S, BA Oxon, MA Aberd	Lectr
Gemmell, A. R., JP, BSc PhD Glas,		Gretton, M F, BA Lond	Asst. Lectr
MS Minn.	Prof	Communication	
Evans, R. G, MSc PhD Wales	Sr Lectr	MacKay, D. M., BSc St And, PhD Lond.	
Badcock, Ruth M., MSc Liv, FLS	Lectr.		Granada Res. Prof.
Plack, R. L., BSc Lond	Lectr.	Andrews, D. P., BA Camb., BSc Lond.	
Goodway, K. M., MA PhD Camb	(on leave) Lectr		Granada Res. Fellow
Campion, Mary, MSc PhD Lond.	Lectr.	Jeffreys, D. A, BSc Lond	Granada Res. Fellow
Baker, C. J E, BA Oxon.	Asst. Lectr	Economics	
Chemistry		Hugh-Jones, E M, MA Oxon	Prof.
Springall, H. D, MA BSc DPhil Oxon.,		Lees, D S., BSc(Econ) Lond., PhD Nott.	
FRIC	Prof		Sr Lectr
McWeeny, R., BSc Leeds, DPhil Oxon.	Sr. Lectr.	Bonner, J, BSc(Econ) Lond, BPhil Oxon	Lectr
Millar, I. T., BSc Lond., PhD Camb.,		Smyth, R. L., BComSc Belg	Lectr
FRIC	Sr. Lectr	Bhambri, R S, BA Panj., BSc(Econ) Lond	
Plesch, P. H, MA Camb., PhD Manc.,			Lectr
FRIC	Lectr.	Tipping, D G, MA St.And	Lectr.
Nyburg, S C., BSc Lond, PhD Leeds	Lectr	Davison, J P, BA(Econ) Durh	Asst Lectr
Mortimer, C. T, MSc PhD Manc., FRIC	Lectr	Shaw, R., MA Aberd, BPhil Oxon	Asst. Lectr
Jones, G., BSc PhD Sheff	Lectr	Elce, I, BSc Lond	(Stats) Asst. Lectr
Cohen, D, BA PhD Camb.	Asst. Lectr.	Education	
Borrell, P., BSc Birm., PhD Camb.	Asst. Lectr	Stewart, W A C., MA PhD Lond.	Prof
Classics		Hallwell, H. F., BSc Lond., FRIC	Sr. Lectr.
Charlton, J. M. T., MA Manc, BA Camb,		Charlton, K, MA EdB Glas	Lectr.
FSA	Prof.	Perrott, Mrs P Elizabeth, MSc Wales,	
Rayne, R. N, DFC, MA Oxon.	Lectr	PhD Manc, FLS	Lectr.
Hill, E. R, MA N.Z. & Camb.	Lectr	Wilson, Mary H., MA Glas.,	
Nussbaum, G B, BA R'dg, MA Birm	Lectr.	BSc(Econ) Lond.	Lectr
		Paffard, M K, BA Brist	Lectr

* Associate Member of the Association of Universities of the British Commonwealth
§ In Jan 1962 it was announced that H.M. The Queen had approved the granting of a charter constituting the University College as the University of Keele.

Cantor, L. M., MA <i>Lond.</i>	Lectr.	North, R. J., MA <i>Lond.</i>	Reader
Hayley, H. W. B., BSc <i>Lond.</i>	†Lectr.	Broome, J. H., BA PhD <i>Lond.</i> , DUParis	(French) Lectr.

English Language and Literature

Lewlor, J. J., MA <i>Oxon.</i>	Prof	Subiotto, A. V., MA <i>Lond.</i>	(German) Lectr.
Harvey, W. J., MA <i>Oxon.</i>	Sr Lectr.	Murphy, Ruth, BA <i>Sheff.</i> , DUParis	(French) Lectr.
Lloyd, M. W., MA BLitt <i>Oxon.</i>	Lectr.	Engel, Eva J., BA <i>Lond.</i> , MA <i>Camb.</i>	(German) Lectr.
Killham, E. J., MA <i>Lond.</i>	(on leave) Lectr.	PhD <i>Corn.</i>	(German) Lectr.
Pearson, G., BA <i>Oxon.</i>	Lectr.	Holmes, F. A., BA <i>Sheff.</i> , BLitt <i>Oxon.</i>	(German) Asst Lectr.
Raw, Barbara, MA <i>Lond.</i>	Asst. Lectr.	Reed, J., BA <i>Durh.</i>	(Russian) Asst. Lectr.
Jameson, M. S., MA <i>Aberd.</i>	Asst. Lectr.	Bodger, A., BA <i>Lond.</i>	(Russian) Asst. Lectr.
		Osmond, N. H. H., BA <i>Oxon.</i>	(French) Asst. Lectr.

Geography

Beaver, S. H., MA <i>Lond.</i> , FGS, FRMetS	Prof.
Williams, W. M., MA <i>Wales</i>	Sr. Lectr.
Cole, Monica M., BSc PhD <i>Lond.</i> , FRMetS	Sr. Lectr.
Walton, A. D., BA <i>Lond.</i> , MA <i>Wis.</i>	(on leave) Lectr.
Naylor, J., BA PhD <i>Birm.</i>	Lectr.
Turton, B. J., BSc PhD <i>Nott.</i>	Asst. Lectr.

Geology

Cope, F. W., DSc <i>Manc.</i> , FGS	Prof.
Miller, T. G., MA <i>Camb.</i> , FGS	Lectr.
Bumaby, T. P., MA PhD <i>Camb.</i>	Lectr.
Lambert, J. L. M., BSc <i>Aberd.</i>	Lectr.
Exley, C. S., MA DPhil <i>Oxon.</i> , FGS	Lectr.
Thomas, J. E., BA	Asst. Lectr.
Park, R. G., BSc <i>Glas.</i>	Asst. Lectr.

Historical Theology

Lectr.

History

Blake, J. W., MA <i>Lond.</i>	Prof
Rolo, P. J. V., MA <i>Oxon.</i>	Sr Lectr.
Leech, H. R., MA <i>Oxon.</i>	Lectr.
Nicholl, D., MA <i>Oxon.</i>	Lectr.
Hennock, E. P., MA PhD <i>Camb.</i>	Lectr.
Adams, D. K., MA <i>Camb.</i> & <i>Yale</i>	Lectr.
McInnes, A. J. D. M., BA <i>Wales</i>	Asst. Lectr.
Spufford, P., MA <i>Camb.</i>	Asst. Lectr.

Mathematics

Jones, D. S., MBE, MA <i>Oxon.</i> , DSc <i>Manc.</i>	Prof
Smith, R. C., MSc PhD <i>Lond.</i>	Lectr.
Liebeck, H., BA <i>Oxon.</i> , MSc <i>Cape T.</i>	Lectr.
Shaddock, C. J., BA <i>Camb.</i>	Asst. Lectr.
Smith, P., BSc PhD <i>Nott.</i>	Asst. Lectr.
Srinivasan, Mrs. Bhama, MA MSc <i>Madr.</i> , PhD <i>Manc.</i>	Asst. Lectr.
Hall, I. M., BA <i>Oxon.</i>	Asst. Lectr.

Modern Languages

Brooke, K., BA <i>Birm.</i>	Prof.
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Moral and Political Philosophy

Teale, A. E., BA <i>Lond.</i> , BLitt <i>Oxon.</i>	Prof.
Atkinson, R. F., BA BPhil <i>Oxon.</i>	Lectr.
King, F. T., BA <i>Fish.</i> , MA <i>Lond.</i>	Asst. Lectr.
Cohen, Mrs. Brenda, BA <i>Lond.</i>	Asst. Lectr.

Philosophy

Flew, A. G. N., MA <i>Oxon.</i>	*Prof.
Day, J. P. de C., MA BPhil <i>Oxon.</i>	Sr. Lectr.
Moran, J. M., BA	Asst. Lectr.
Harrison, A., BA <i>Brist.</i>	Asst. Lectr.

Physics

Ingram, D. J. E., MA DPhil DSc <i>Oxon.</i> , FIP	Prof.
Davies, D. E., BSc PhD <i>Wales</i> , FIP	Sr. Lectr.
Holloway, D. G., BSc PhD <i>Brist.</i>	Lectr.
Hodgson, J. N., BSc <i>Lond.</i> , PhD <i>Camb.</i>	Lectr.
Surplice, N. A., BSc PhD <i>Birm.</i>	Lectr.
Schlapp, D. M., MA PhD <i>Camb.</i>	Lectr.
Lainé, D. C., BSc PhD <i>S'ton.</i>	Lectr.
Dawson, G. A., BA	Asst. Lectr.

Political Institutions

Finer, S. E., MA <i>Oxon.</i>	Prof.
Cairns, Mary B., LL.M. <i>Brist.</i> , PhD <i>Lond.</i>	Lectr.
Glover, Mary R., MA <i>Oxon.</i>	Lectr.
Bealey, F. W., BSc(Econ) <i>Lond.</i>	Lectr.
Eros, J. S., DrPhil <i>Heidel.</i> , PhD <i>Manc.</i>	Lectr.
Berrington, H. B., BSc(Econ) <i>Lond.</i>	Lectr.
Blondel, J., LicenDroit <i>Paris</i> , BLitt <i>Oxon.</i>	Lectr.
Angell, A. E., BSc(Econ) <i>Lond.</i>	Asst. Lectr.

Psychology

Ihffe, A. H., BA <i>R'dg.</i>	Lectr.
Halmos, P., BA PhD <i>Lond.</i> , DrJuris <i>Bud.</i>	Lectr.

Social Studies

Glover, Mary R., MA <i>Oxon.</i>	Dir. of Soc. Service Trg.
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ADMINISTRATIVE AND OTHER STAFF

Hon. Legal Adviser: H. Taylor
 Hon. Architect: J. R. Piggott, FRIBA.
 Finance Officer: A. F. Booth, Asst. Registrar (Estates and Bldgs).
 E. J. Hughes, DPA, Architect & Bldgs. Officer.

J. A. Pickavance, FRIBA, Dep. Librarian.
 G. A. Howe, MA *Camb.*, Asst. Librarian.
 A. E. Jeffreys, BA *Lond.*, Accountant.
 W. Farrar, Principal's Sec.
 D. Judith Samuel, Registrar's

Sec. Marion H. Bailey. Admin. Assts. A. F. Tough, MA LLB *Aberd.*, Catherine M. Llewellyn Smith, MA *Oxon.*, N. R. Walley. Wardens of Halls of Residence: Mary H. Wilson, MA *Glas.*, BSc(Econ) *Lond.*, R. N. Rayne, DFC, MA *Oxon.*, P. J. V. Rolo, MA *Oxon.*, J. P. de C.

Day, MA BPhil *Oxon.*, Dir. of Phys. Educn. H. W. B. Hayley, BSc *Lond.* Appts. Officer. H. R. Leech, MA *Oxon.* Coll. Med. Officer. J. Scott, MB ChB *Edin.* Domestic Bursar. Eileen M. F. Rolfe.

GENERAL INFORMATION

The coll. was founded by royal charter in Aug. 1949, and was opened in Oct. 1950. Situated at Keele Hall, where there is an estate of 640 acres, it is about 2 miles west of Newcastle under Lyme.

CONSTITUTION of the coll. follows pattern of mod. English univs. with one important deviation. There is a court, a council and a senate with the usual division of powers and duties, but in addition an academic council, the majority of whose members are reps. of the univs. of Oxford, Manchester and Birmingham, and whose approval is required on all matters of academic importance.

INCOME (1959-60), £384,500. Approx. percentages from different sources: govt., 72 per cent.; local authorities, 12 per cent.; fees, etc., 16 per cent.

BOARDS OF STUDIES (1961-62). *Humanities*: chairman, Prof. K. Brooke (mod. langs.); sci.: chairman, Prof. D. S. Jones (maths.); soc. scis.: chairman, Prof. A. E. Teale (moral & pol. philos.).

LIBRARY. 200,000 vols.

LABORATORIES. Biol., chem., geog., geol., phys.

ADMISSION. See Appendix III.

FIRST DEGREE AND DIPLOMA COURSES. The charter empowers the coll. to grant its own degree of BA. The 1st yr. of the 4-yr. course consists of a compulsory course of lectures identical for all students but with tutorial work adjusted to individual needs. This course is concerned with the heritage of civilization, present-day problems and the methods and influence of the experimental scis. During the last 3 yrs., students must select not less than 4 subs., which must include at least 1 from the humanities and soc. scis., and at least 1 from the scis.; 2 of these 4 subs. must be studied at principal level throughout the whole of the 3 yrs. Subs. taken at subed. level are studied for 1 yr. The BA degree is awarded with hon. where sufficient merit is shown. During these last 3 yrs., an educn. dipl. course may be taken concurrently with the BA studies. This dipl. is recognized by the Ministry of Educn. A social studies dipl. may also be taken with the normal BA studies.

Transfer courses are provided in the 1st yr. of the 4-yr. degree course to enable students with no sci. qualif. at G.C.E. advanced level to offer at least 1 sci. sub. as a principal sub.

HIGHER DEGREES. Members of staff and post-grad. students of the coll. may, under approved

conditions, be accepted as candidates for the degrees of MA, MSc and PhD of the univs. of Birmingham and Manchester.

EXTERNAL DEGREES are not awarded.

AFFILIATIONS. The coll. has reciprocal arrangements with both Swarthmore Coll., Pennsylvania, and Reed Coll., Oregon, by which one student is exchanged annually with each coll.

FEES. *Inclusive annual fee* (covering matric., registration, students' union, tuition, exam and graduation fees), £60. *Residential fees*, £156 per session of 30 wks.

ACADEMIC YEAR. Oct. to June. 3 terms of 10 wks. each.

POSTGRADUATE AWARDS open to grads. of other univs. see p. 808.

APPOINTMENTS BOARD (For appts. officer, see 'Admin. and Other Staff', above). The functions of the bd. are to provide information and advice on careers and to assist grads. of the univ. coll. to obtain suitable employment.

ASSOCIATION OF PAST STUDENTS. The Keele Soc., an assoc. of past students and other members of the coll.

RESIDENCE (For wardens, see 'Admin. and Other Staff', above). The coll. is entirely residential and only under exceptional circumstances is permission given for residence outside. There are at present 2 halls of residence, Lindsay Hall (tel. Keele Park 319 (Miss Wilson)) for women students and Horwood Hall (tel. Keele Park 303 (Mr. Rolo, the Hawthorns), 384 (Mr. Rayne, Home Farm Residences), and 219 (Mr. Day)) for men students. Address (of both halls) Univ. Coll. of N. Staffs., Keele, Staffs.

STAFF RESIDENCES. It is intended to build residences for all teaching and some other staff. A principal's residence, 65 new houses, 15 bungalows, 4 lodges and 19 staff flats are available.

STUDENT HEALTH SERVICE. All students examined after admission by coll. med. officer. A bldg. is set apart as a sick bay. Resident matron-nurse.

STUDENTS' UNION. Sep. bldg. available for students' union purposes. All students are members, the annual fee of £5 being included in the composite fee (see above). 26 acres of playing fields laid out within the estate.

PUBLICATION. *Prospectus* (annual).

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS Women's residence (60 students), extensions to phys and chem labs

RESIGNATIONS D. J. Bartholomew (stats), apptd lectr, Wales, V. C. Ewing (chem), apptd. to Du Pont Co., G. B. Keene (philos), apptd lectr, Exe., K. G. Knight (German), apptd secretary-librarian, Inst of Germanic Langs and Lits, Lond., D. C. Russell (maths), apptd asst prof., Mt. All

Included in the figures above are —

Postgraduate students, 37

New admissions, 216.

Students from other countries, 26.

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	466	—
Women	306	—
Total	772	—

DEGREES AWARDED (1959-60) BA, 11, BA (hons), 146.

DIPLOMAS AWARDED (1959-60) DipEd, 45 ;
DipSocStud, 9

UNIVERSITY OF NOTTINGHAM*

Founded 1948 ; previously established as University College, Nottingham, 1881

Postal Address University Park, Nottingham, England

Telegrams University, Nottingham

Telephone : Nottingham 56101

VISITOR—H M THE QUEEN

CHANCELLOR—His Grace THE DUKE OF PORTLAND, KG, Hon LLD

PRO-CHANCELLOR—Alderman Sir FRANCIS HILL, CBE, MA LL.M. LittD *Camb* , Hon. LLD

VICE-CHANCELLOR—B L HALLWARD, MA *Camb*.

PRESIDENT OF COUNCIL—Alderman Sir FRANCIS HILL, CBE, MA LL.M. LittD *Camb* , Hon LLD

TREASURER—The Rt Hon LORD HIVES, CH, MBE, Hon LLD *Camb* , Hon. DSc

DEPUTY TREASURER—H B. STONE, OBE, Hon. MA

DEPUTY VICE-CHANCELLOR—Professor H. R. PITT, BA PhD *Camb* , FRS

REGISTRAR—A PLUMB, MA *Camb*.

LIBRARIAN—R S. SMITH, BA *Lond.*, FLA

BURSAR—A HENDRY, Hon MA, CA

TEACHING STAFF

[† = Part-Time]

Agriculture, etc., see below

Botany, see also Agriculture

Chesters, C. G. C., BSc *Glas* , MSc PhD *Birm.*,
FLS Prof
Holden, H S , CBE, DSc *Manc* , FLS
(Paleobot.) Hon Reader
Turner, Mrs. Myfanwy, MSc *Wales*, FLS Lectr
Connell, W. D., BSc *Edin.* Lectr
Pugh, G J. F., BSc *Wales*, PhD Lectr
Pearson, M C., BSc PhD *Durh.* Lectr
Cocking, E C D., BSc PhD *Brist* Lectr
Pettit, A., PhD *Ston* Asst Lectr
Mathison, G. E., BSc *Brist* , PhD Asst. Lectr
Stewart, W P D , BSc *Glas* Asst Lectr
2 Demrs

King, T J , BSc MA DPhil *Oxon* Sr. Lectr
Wallwork, S C , MA DPhil *Oxon* Lectr
Timmons, C J , BSc PhD *Lond* Lectr
Addison, W E , BSc *Glas* , PhD *Aberd* Lectr
Booth, H , MA PhD *Camb* Lectr.
Cundall, R B , BSc PhD *St And* Lectr.
Parfitt, G. D , BSc PhD *Brist* Lectr.
Tuck, D G., BSc PhD *Durh.* Lectr
Rudham, R , BSc PhD *Brist* Lectr
Bullock, E., MA PhD *Camb* Lectr
Logan, N , BSc PhD Asst Lectr
McKay, K M , BSc *Aberd.*, PhD *Camb* Asst Lectr
Wallis, M R , BSc PhD Asst Lectr
5 Demrs

Classics

Thompson, E. A , MA BLitt *Dub* Prof
Whittaker, Molly, MA MLitt *Camb* ,
BD *Lond* Sr Lectr.
Chalmers, W. R., MA *Edn* Lectr.
Mattingly, H B., MA *Camb* Lectr
Watson, G R , MA MLitt *Durh* Lectr

Dairying, see Agriculture, below

Economics

Tew, J H B , BSc(Econ) *Lond.*, PhD *Camb*. Prof.
Gabor, A., BSc(Econ) *Lond.* Sr Lectr.

* Member of the Association of Universities of the British Commonwealth

Mitchell, Joan E, MA *Oxon.*, PhD
Little, A J., BA PhD *Melb*

Lectr.
Lectr.

Economics, Industrial

Wells, F A, OBE, BSc(Econ) PhD *Lond.* Prof.
Varley, D E, MA *Camb* Lectr.
Skullicorn, M. D., BA PhD Lectr.
Gwilliam, K M, BA *Oxon.* Asst. Lectr.
Rowley, C. K., BA Asst. Lectr.
Morell, A L., FCA (Acc'tg) † Lectr.

Education

Haycocks, N., MA *Manc* Prof.
Sumner, W L, BSc *Lond.*, PhD, FLS Reader
Stewart, A. H., BA *Lond.* Sr. Lectr.
Flower, N. C., MSc *Durh.* Lectr.
Gopsill, G. H., MA *Birm* Lectr.
McNicol, H., MA *Dub.* Lectr.
Grove, R. B., MA *Leeds* Lectr.
Russell-Gebbett, Miss Jean P, BSc

Lectr.
Lectr.
Lectr.
Lectr.
Lectr.
Lectr.
Lectr.
Speech Therapist
Speech Specialist

Engineering, Chemical

Johnstone, R. E., BScTech *Manc*,
DSc *Lond.*, FRIC Lady Trent Prof.
Cummings, A. D., MSc *Lond.*, PhD Lectr.
Hardland, S., MA *Camb* Lectr.

Engineering, Civil

Coates, R. C., BSc(Eng) *Lond*, PhD Prof.
McKay, D, BSc *Leeds*, PhD Sr. Lectr.
Fell, P. S., BSc(Eng) PhD Lectr.
Lenczner, D, BSc *Glas.* Lectr.
Sherratt, F., BSc *Lond*, PhD Lectr.
Sparrow, R. W., BA *Dub.*, PhD Lectr.
Cullingford, G, BSc *Birm* Lectr.
Chiat, B, BSc *Cape T* Lectr.
Ackroyd, L W, BSc *Leeds* Lectr.

Engineering, Electrical

Paton, J E., BSc PhD *Birm* Prof.
Alexander, W., MSc(Eng) *Lond*, PhD
(Indust. Electronics) Sr Lectr.
Swann, S A., BSc(Eng) MSc *Lond*, PhD
Sr Lectr.
Newsome, J P, BSc(Eng) *Lond*, MSc Lectr.
Marsden, A. M., BSc *Manc.* Lectr.
Wright, A, MSc *Durh.*, PhD Lectr.
Strange, P, BSc PhD Lectr.
Noton, A R. M., BSc *Sheff & Lond.*,
PhD *Camb.* Lectr.
Owen, S. J. T, BSc PhD Asst. Lectr.
Pugh, A, BSc *Wales* Asst. Lectr.

Engineering, Mechanical

Smith, A. G., BSc *Lond.*
(Thermodyn.) Hives Prof.

Warburton, G. B., MA *Camb.*, PhD *Edin.*
(Appl. Mech.) Prof
Markland, E., BSc *Manc.*, PhD
(Fluid Mechanics & Heat Transfer)

Reader
Fessler, H, MSc(Eng) *Lond*, PhD Sr. Lectr.
Hegnbotham, W B., MScTech PhD *Manc.*
(Prodn. E.) Sr. Lectr.
McCallion, H., BSc(Eng) *Lond.*, PhD Sr. Lectr.
Dudley, B R., BSc(Eng) *Lond* Sr Lectr.
Ollerton, E, BSc PhD Lectr.
Owen, M. J., BSc *Birm.*, MS *Penn.* Lectr.
Roylance, T. F., BSc *Lond.* Lectr.
Franklin, G. J., BSc PhD *Brist.* Lectr.
Lichtarowicz, A., BSc PhD Lectr.
Roberts, E. A., BSc (Production E.) Lectr.
Stanley, P, MA *Camb* Lectr.
Duggins, R K, BSc *Lond* Asst. Lectr.

English

Kinsley, J, MA *Oxon & Edin*, PhD
DLitt *Edin*, FRSL Prof
Hibbard, G R, MA *Lond* Sr Lectr.
Welland, D S. R., BA *Lond*, PhD Sr Lectr.
Cameron, K, BA *Leeds*, PhD *Sheff.* Sr. Lectr.
Boulton, J. T., BA *Durh.*, BLitt *Oxon.*,
PhD Lectr.
Rodway, A E, MA *Camb*, PhD Lectr.
Smith, Sheila M., MA *Lond.* Lectr.
Lee, B C, MA *Brist* Lectr.
Berry, H. Margaret, BA *Lond.* Asst. Lectr.
Shaw, P, BA *Lond.* Asst. Lectr.
Hawthorne, T S B., MA *Dub.*
(Engl. Studies for Overseas Stu-
dents) Lectr., Tutor

Fine Art

Smart, P. A. M., MA *Glas.*
Sr. Lectr., Hd. of Dept
Reason, C. Fellow

French

Thorpe, L, BA PhD *Lond.*, LèsL *Lille*,
DUParis Prof.
Christie, J, MA *Glas.*, LèsL *Lyons* Lectr.
Jolivet, P A, LèsL *DUParis* Lectr.
Dawson, F K, MA PhD *Manc* Lectr.
Burns, C A, BA PhD *Lond* Lectr.
Purkis, Helen M C, MA *Oxon*, *DUParis* Lectr.
Lucas, H H., BA *R'dg.*, *DUParis* Lectr.
Van Emden, W. G., BA PhD *Lond* Lectr.
Rodmell, G E., BA *Durh* Asst. Lectr.
Merle, M., LèsL *DUPES Aix-Marseilles* Lecteur

Geography

Edwards, K C., MA PhD *Lond.* Prof.
Barnea, F. A., BSc *Lond* Sr. Lectr.
Fuller, G Joan, MA PhD *Lond* Lectr.
King, Miss Cuchlaine A M, MA
PhD *Camb* Lectr.
Cole, J P, MA PhD Lectr.
Osborne, R. H., BSc(Econ) PhD *Lond.* Lectr.
Wheeler, P T., MA *Aberd* Lectr.
i Demr.

Geology

Evans, W. D., MSc <i>Wales</i> , PhD <i>Lond.</i> , FLS, FGS	Prof
Richardson, W. A., OBE, BA DSc BSc(Eng) <i>Lond.</i> , FGS (Petrol)	Hon Reader
Elliott, R. B., BSc <i>Durh.</i> , PhD, FGS	Sr. Lectr.
Honeyman, A. M., MA BSc <i>Glas.</i> , FGS	Lectr.
Firman, R. J., BSc PhD <i>Durh.</i> , FGS	Lectr.
Rowell, A. J., BSc PhD <i>Leeds</i> , FGS	Lectr.
Taylor, F. M., BSc PhD <i>Sheff.</i> , FGS	Lectr.
Cummins, W. A., BSc <i>Liv.</i> , FGS	Lectr.
Morton, R. D., BSc PhD, FGS	Lectr.

German

King, K. C., MA <i>Oxon.</i> , PhD <i>Lond.</i>	Prof
Smith, N. H., MA <i>Oxon.</i>	Lectr.
Brett-Evans, D., MA <i>Wales</i> , DrPhil <i>Bale</i>	Lectr.
Lucas, R. S., MA BLitt <i>Oxon</i>	Lectr.
Weiss, K.	Lektol

History

Roskell, J. S., MA <i>Manc.</i> , DPhil <i>Oxon</i>	
(Mediev. H.)	Prof
Koenigsberger, H. M. G., MA PhD <i>Camb</i>	
(Mod. H.)	Prof
Chambers, J. D., BA PhD <i>Lond.</i>	
(Econ. H.)	Prof
Fryer, W. R., MA BLitt <i>Oxon.</i>	Sr Lectr.
Holt, J. C., MA DPhil <i>Oxon</i>	Sr Lectr.
Ashton, R., BA PhD <i>Lond.</i>	Sr Lectr.
Woodward, G. W. O., MA PhD <i>Dub</i>	Lectr.
Greenville, J. A. S., BA PhD <i>Lond.</i>	Lectr.
McIntyre, W. D., MA <i>Camb & Wash.</i> , PhD <i>Lond.</i>	Lectr.
Beecham, H., Audrey, MA <i>Oxon.</i>	Lectr.
Coats, A. W., MSc(Econ) <i>Lond.</i> , PhD <i>Johns H.</i>	Lectr.
Hamilton, B. F., BA PhD <i>Lond.</i>	Asst Lectr.
Titow, J. Z., MA <i>Camb</i>	Asst Lectr.

Horticulture, see Agriculture, below**Law**

Smith, J. C., MA LLB <i>Camb.</i>	Prof
Webb, P. R. H., MA LLB <i>Camb</i>	Lectr.
Prichard, A., LLB <i>Lond.</i>	Lectr.
Brownlie, I., MA <i>Oxon.</i>	Lectr.
Hogan, T. B., LLB <i>Manc</i>	Lectr.
Williams, D. G. T., MA LLB <i>Camb.</i> , LLM <i>Calif.</i>	Lectr.
Matheson, Joan M., BL <i>Glas</i>	Asst Lectr.
Morrell, A. L., FCA	†Lectr.

Mathematics

Pitt, H. R., BA PhD <i>Camb</i> , FRS	
(Pure M.)	Prof
Hill, R., MA PhD ScD <i>Camb.</i> , FRS	
(Appl. M.)	Prof.
Noble, M. E., MA PhD <i>Camb.</i>	Reader
Rose, A., BA <i>Camb.</i> , DSc <i>Manc</i>	Reader
Prior, L. E., MSc <i>Lond.</i>	Sr. Lectr.
Power, G., MBE, MA <i>Oxon.</i> , PhD	Sr Lectr.
Jones, E. E., BSc PhD <i>Wales</i>	Lectr.

Jackson, Margaret, MSc <i>Lond.</i> , PhD	Lectr.
Copping, J., BA PhD <i>Lond.</i>	Lectr.
Granger, C. W. J., BA PhD	Lectr.
Knops, R. J., BSc PhD	Lectr.
Paechter, G. F., MA DPhil <i>Oxon</i>	Lectr.
Brown, A. L., BA <i>Camb.</i>	Lectr.
Sewell, M. J., BSc PhD	Asst Lectr.
Pate, M. B., BSc <i>Wales</i>	Asst Lectr.

Metallurgy

Cuthbertson, J. W., DSc <i>Manc.</i> , FIM	Cnpps Prof
Holmes, E., MA <i>Camb.</i> , PhD <i>Birm</i>	Sr Lectr.
Brook, P. A., MA <i>Camb.</i> , PhD	Lectr.
Waterhouse, R. B., MA PhD <i>Camb</i>	Lectr.
Henstock, M. E., BSc	Lectr.
Harris, S. J., MScTech <i>Manc</i>	†Lectr.

Mining

Hinsley, F. B., DSc <i>Bum</i>	Prof
Whitmore, R. L., BSc <i>Lond.</i> , PhD DSc <i>Burm</i>	Reader
Morris, L. H., BSc <i>Wales</i>	Lectr.
Hackett, P., BSc PhD	Lectr.
Brown, J. R., BSc PhD	Lectr.
Hodges, D. J., BSc	Lectr.

Music

Keys, I. C. B., MA DMus <i>Oxon</i> , FRCO	Prof
Lamung, F. M., BMus <i>Lond.</i>	Lectr.
Smallman, F. B. R., MA BMus <i>Oxon</i>	Lectr.

Pharmacy

Trease, G. E., BPharm <i>Lond.</i> , DUStas., FRIC, FLS	(Pharmacognosy) Prof
Partridge, M. W., BPharm BSc PhD <i>Lond.</i>	
(Pharm. Chem.)	Lord Trent Prof
Crossland, J., MA <i>Oxon</i> , PhD <i>Wales</i>	
(Pharmacol.)	Reader
Turner, H. A., BSc <i>Lond.</i> , PhD	Sr. Lectr.
Hugo, W. B., BPharm PhD <i>Lond.</i>	Sr. Lectr.
Cooper, F. C., BPharm BSc <i>Lond.</i> , PhD	Lectr.
Evans, W. C., BPharm BSc PhD <i>Lond.</i>	Lectr.
Gilbert, R. E., BPharm <i>Wales</i> , PhD <i>Burm</i>	Lectr.
Watson, Gertrude M., BPharm <i>Lond.</i>	Lectr.
Vipond, H. J., BSc PhD <i>Durh</i>	Lectr.
Hardman, R., BPharm BSc PhD <i>Lond.</i>	Lectr.
Grout, R. J., BPharm PhD	Lectr.
Grumley, Elizabeth M., BPharm	Asst Lectr.
Stockley, I. H., BPharm	Asst. Lectr.
4 Demrs.	

Philosophy

Hepburn, R. W., MA PhD <i>Aberd.</i>	Prof
Lees, J. F., MA <i>Camb.</i>	(Soc. Philos.) Lectr.
McQueen, D. A., BA <i>S'ton</i>	Lectr.

Physics

Bates, L. F., BSc <i>Brist.</i> , PhD <i>Camb.</i> , DSc <i>Lond.</i> , FIP, FRS	Lancashire-Spencer Prof.
Stevens, K. W. H., MA DPhil <i>Oxon.</i>	(Theoret. P.) Prof

Standley, K J, MA DPhil *Oxon*
 Woolley, J C., BA *Camb*, PhD
 Nash, W F, MSc *Wales*, PhD *Manc*
 Adam, G D, BSc *St And*, PhD
 Phillips, J. H., MC, BSc PhD
 Matthews, J. C., BSc PhD *Leeds*
 Challis, L J, MA DPhil *Oxon*
 Bates, C A, BSc PhD
 Rowell, P M, BSc DPhil *Oxon*
 Booth, J G, BSc PhD *Sheff*.
 Sheard, F W, BSc *Durh*
 Williams, D E G., BSc PhD *Sheff*
 Bull, R M., BSc *Exe*
 Heath, M., BA *Oxon*
 Moore, W S., BA *Camb*, PhD
 3 Demrs

Reader
 Sr. Lectr
 Sr. Lectr
 Lectr
 Lectr
 Lectr
 Lectr
 Lectr
 Lectr
 Asst Lectr
 Asst Lectr
 Asst Lectr
 Asst Lectr
 Asst Lectr
 Asst Lectr

Theoretical Mechanics

Adkins, J E, PhD DSc *Lond*

Reader, Hd of Dept.
 Green, W A, BSc PhD *Wales* Lectr.
 Spencer, A J. M., MA PhD *Camb* Lectr

Zoology, see also Agriculture, below

Barrington, E. J. W., MA DSc *Oxon*, FLS Prof
 Arken, A., BSc *Glas* St Lectr.
 Clarke, K. U., BSc *Lond*, PhD Sr Lectr
 Young, May R., BSc *Edin*, PhD *Lond*. Lectr.
 Morris, B., BSc *Wales*, PhD Lectr
 Morris, R., BSc *Lond*, PhD Lectr
 Kent, A. K., BSc *Wales* Asst Lectr.
 Manley, G. H., BSc Asst Lectr.

Psychology

Sprott, W J H, MA *Camb* Prof.
 Joynton, R B, MA BLitt *Oxon*, PhD Sr Lectr.
 Newson, L J, BSc *Lond*, PhD Lectr
 Douglas, G O., MA *Camb* (Clin P) †Lectr
 King, M D, BSc *Lond* (Sociol) Asst Lectr.

Slavonic Languages

Seeley, F J B F, MA *Oxon*
 Sr Lectr, Hd of Dept
 Partidge, Mrs Monica A, BA PhD *Lond* Lectr
 Futrell, M H, BA PhD *Lond* Lectr
 Johnson, B S, BA PhD Asst Lectr
 Kirilloff, A., BA *Oxon*. Lector

Social Science

Marsh, D. C., MCom *Birm* Prof
 Gowan, I L, MA *Oxon*, BA *Wales*
 (Pub. Admn) Sr Lectr
 Robertson, Mary F., MA *Edin*. Lectr.
 Eyden, Joan L. M., BA BSc(Econ) *Lond* Lectr.
 Emerson, A. R., PhD *Edin*, BA Lectr
 Willcocks, A. J., BCom PhD *Birm*. Lectr.
 Rowe, E. A., MA BLitt *Oxon*. Lectr.
 Spelman, Eileen M., OBE, BA *Lond* Lectr.
 Manly, Margaret A G., MSS *Smith*
 Temp Lectr

Spanish

Tate, R B, MA PhD *Belg* Prof
 Russell-Gebbett, P. S. N., MA *Camb*. Lectr
 Connell, G W., MA *Manc*. Lectr.
 Puértolas, J. R., BA *Madrid* Lector

Theology

Richardson, Canon A., MA *Liv. & Oxon.*,
 DD *Glas & Oxon* Prof
 Hanson, Rev R P C, BA DD *Durh* Reader
 Leane, Rev A. R. C., MA BD *Oxon*. Sr. Lectr.
 Neel, Rev W, MA BD PhD Hon. DD *Glas*
 Lectr
 McKeating, H, BD MTh *Lond*. Asst. Lectr
 Richmond, Rev. J, MA BD PhD *Glas*
 Asst. Lectr.
 Posen, Rev. J, PhD *Lond*. †Lectr.

AGRICULTURE AND HORTICULTURE

Agricultural Botany

Milthorpe, F. L., MScAgr *Syd*, PhD *Lond* Prof.
 Dent, K. W., BSc PhD *Birm*. Lectr
 Edwards, Minam M., MSc PhD *Manc* Lectr.
 Whittington, W. J., BSc *Wales*, PhD Lectr.
 Lewis, B G, BSc *Brist*. Asst. Lectr.
 † Demr.

Agricultural Chemistry

Hallsworth, E. G., BSc PhD *Leeds* Prof
 Lewis, D, MA *Camb.*, MSc *Wales*,
 PhD *Sheff* Reader
 Ling, E R, MSc *Lond*, PhD, FRIC Sr Lectr
 Crawford, D V, MA BSc *Oxon*, PhD Lectr.
 Norton, G., BSc PhD Lectr.
 Cowan, I R, MSc *Lond* Lectr
 Cansfield, P E, BSc *Wales* Asst Lectr
 Taylor, I F, AKC, BSc *Lond* Asst. Lectr
 † Demr

Agricultural Economics

Britton, D K, BSc(Econ) *Lond.*, MA *Oxon*
 Prof, Prov Agric. Economist
 Jones, R B, MSc *Wales* Sr Agric Economist
 Senior, W. S., BSc(Agric) *Leeds*
 Sr Agric Economist
 Ingeisent, K A, BSc *Aberd.*, MS *Minn*
 Agric Economist
 Warley, T K, MSc Agric Economist
 Wood, R. O., MSc *Lond* Agric Economist
 Jones, G E, BA *Manc.*, BLitt *Oxon*
 Agric. Economist
 Sandilands, Margaret M., BA *Lond*.
 Asst. Agric Economist
 Theophilus, T. W. D, BSc *Wales*
 Asst. Agric. Economist
 Daw, M. E., BSc Asst. Agric Economist

Agricultural Engineering

Chatterton, J, DFC, BSc *Lond.*, MSc Lectr.

Agricultural Microbiology

Woodbine, M., MSc PhD *Manc*, FRIC Reader
 Seaman, A., BSc *Lond.*, PhD Lectr.
 † Demr.

Agricultural Zoology, see also Zool., above
 Murphy, P. W. E., BAgSc NUI, Lectr
 DPhil Oxon
 Ritchie, J. Y., BSc(Agric) Glas Lectr
 1 Demr.

Agriculture
 Ivins, J. D., BSc R'dg., MSc(Agric) PhD Prof.
 Lammung, G. E., BSc(Agric) Lond., MS
 PhD Ill (Animal Physiol) Reader
 Bremner, P. M., BSc Edin., MS Con., Lectr
 DipAgric Camb
 Payne, C. G., BSc PhD Lond Lectr.
 Lodge, G. A., BSc Durh., PhD Aberd Lectr

Food Science
 Roife, E. J., BSc Lond. Lectr
 Stein, M., JUDr Prague, BSc PhD Leeds Lectr.
 1 Demr.

Horticulture
 Hudson, J. P., MBE, GM, MSc Lond., PhD Prof.
 Marston, Margaret E., BSc Lond., MSc(Hort) PhD Lectr
 Heydecker, W., BSc R'dg., MSc PhD Lectr.
 Dullforce, Winifred M., MSc Lectr
 Buckley, W. R., MSc Lond Asst Lectr
 1 Demr.

Veterinary Hygiene
 Buxton, J. C., BSc PhD Hon. Lectr
 Ford, Connie M Hon. Lectr

INSTITUTE OF EDUCATION

Lewis, Prof. M. M., MA PhD Lond Dir
 Daniels, J. C., BSc MED Durh., PhD Tutor
 Diack, H., MA Aberd. Tutor

Grayson, M. C., BA Leeds Tutor
 Daines, J. W., BD MTh PhD Lond Actg. Dir.
 Land, Claudia E. L., MA Birm., FLA Librarian

EXTRA-MURAL STUDIES

Wiltshire, H. C., MA Lond (on leave) Dir.
 Thornton, A. H., MA BCL Durh Actg. Dir.
 Barley, M. W., BA R'dg., MA, FSA (Archaeol) Sr. Tutor
 Bayliss, F. J., MA Oxon, PhD
 (Econ. & Indust. Reins) Tutor
 Champion, A., MA Camb. [Holland] (Philos) Tutor
 Cruickshank, A. B., MA Glas [Mid- (Geog.) Tutor
 Derbyshire] (Pol.) Tutor
 Dixon, J. F., MA Oxon. [W. Nottingham- (Psychol) Tutor
 shire] (Sci.) Tutor
 Douglas, G. O., MA Camb (Psychol) Tutor
 Fielden, R. D. S., MA Manc [Lincoln] (Engl Lit) Tutor
 Hogarth, C. E., MA Manc. (Derby & S. (Hist) Tutor
 Derbyshire] (Lit) Tutor
 James, W., BA [E. & S. Nottingham- (Sci.) Tutor
 shire] (Pol.) Tutor
 Lilley, S., MSc Belf., PhD Camb (Lit) Tutor
 Madgwick, P. J., MA Oxon [N. Leicester- (Sci.) Tutor
 shire] (Pol.) Tutor
 Simpson, S. J., BSc(Econ) Lond (Appl. Econ.) Tutor
 Smith, A. E., MA Leeds [Lindsey] (Local Studies) Tutor
 Stadler, K. R., BA Brist., MA Lond. (Internat. Reins.) Tutor
 Wassell, R. P., MA Oxon. [Services (Pol.) Tutor
 Educn.] (Sociol) Asst. Tutor
 Coates, K. S., BA [Nottingham] (Sociol) Asst. Tutor
 Rogers, A., MA [Kesteven] (Local Hist.) Asst. Tutor
 Steele, D. B., BA Durh. (Econ.) Asst. Tutor

ADMINISTRATIVE AND OTHER STAFF

REGISTRAR'S DEPARTMENT Sr Asst Registrar :
 G. J. Eltringham, MA Sheff Sec. to Sch. of
 Agric. : . . . Asst. Registrar : Glenys M. P.
 Wortley, MA Oxon Sr Admin Asst : Isabel C.
 Hutton. Admin Assts. : Joan M. Crabb, BSc
 (Econ) Lond., D. Harrison, BA Lond ; W. K.
 Brookes, BA Manc., Muriel I. Wood ; Margery
 W. Davis ; Rosemary le M. David

BURSAR'S DEPARTMENT Finance Officer : A.
 Bellamy, FCA. Bldgs. Officer : D. L. W. O'Dell.
 Surveyor : O. D. Maguire. Surveyor (Sch. of
 Agric.) : A. Turner. Asst. Finance Officer :
 D. W. Smith, LLB Lond Admin. Assts. : D. J.
 Gascoyne ; P. McCree, T. K. Shaw ; Edna
 Smith ; B. Brown

ADULT EDUCATION CENTRE. Admin. Asst.
 K. H. Lawson, MA Oxon.

INSTITUTE OF EDUCATION Admin. Assts.
 E. J. Bamford ; A. D. May, BA Lond.

LIBRARY Sub-Librarians G. L. Hayhurst,

BA Liv., D. Alice Clarke, BA Lond. Keeper of
 MSS. J. H. Hodson, BA Manc. Librarian-in-
 charge, Sch. of Agric. Nancy W. Rhodes, BA
 Lond

UNIV. MEDICAL OFFICERS J. D. Fisher, MC,
 Winifred Thompson, MB BS Lond.

CAREERS AND APPTS. BOARD Sec. : N. T.
 Scott, BA Durh Asst Sec. : N. S. Rogers, MA
 Camb Admin Asst Phyllis Dainton, BA Durh.

WARDENS OF HALLS. Hugh Stewart. Rev. W.
 Neil, MA BD PhD Hon DD Glas., Cripps :
 H. H. Lucas, BA R'dg., DU Stras ; Wortley :
 R. B. Waterhouse, MA PhD Camb ; Florence
 Boot Eileen M. Spelman, OBE, BA Lond,
 Florence Nightingale. H. Audrey Beecham, MA
 Oxon.

ACCOMMODATION OFFICER D. C. Singleton

ADVISER TO OVERSEAS STUDENTS Rev W.
 Neil, MA BD PhD Glas.

GENERAL INFORMATION

The univ. originated in the adult sch. establd. in 1798, the Mechanics' Inst. and the People's Coll., developments leading to the univ. extension lectures inaugurated in Nottingham in 1873—the first in the country—by the Univ. of Cambridge. An anon. gift of £10,000 in 1875 encouraged the corporation of Nottingham to erect a bldg., maintain it, and supply instrum. The bldg., in Shakespeare St., was opened in 1881 as the Univ. Coll., Nottingham, incorporated by royal charter in 1903. There were at first 4 professorships (lit., phys., chem., nat. sci.).

A large estate some 3 miles W. of Nottingham, giving room for expansion, and new bldgs. completed in 1928, were provided by the first Lord Trent, after whom they are now named. In 1938 a supplemental charter reconstituted the governing body, providing for much wider representation. The coll. was relieved in 1945 of responsibility for evg. and pt-time educn. in the area, in 1947 the Midland Agric. Coll. at Sutton Bonington became the coll. sch. of agric., and an inst. of educn. was founded. Since 1948, when the univ. charter was granted, 175 acres have been purchased, bringing the site to a total of 295 acres; new bldgs., incl. 2 halls, a biol. bldg., the Portland bldg. containing refectories and students' amenities, a chem. bldg., part of the appl. sci. bldg. and the educn. & soc. sci. bldg. have been erected, and 21 new professorships have been establd.

CONSTITUTION The supreme governing body of the univ. is the court, which includes the officers, life members, reps. apptd. by local authorities, reps. of churches, members of parliament of the divisions of the city of Nottingham and certain E. Midland constituencies, *ex-officio* members, reps. of staff, students and convocation, of other instns. and socs., incl. schs. and colls., and other persons, 3 of whom are nominated by the lord president of the privy council. The chairman of court is the chancellor. Subject to control by the court, the council is the executive of the univ., responsible for the conduct of all the affairs of the univ. The council consists of the officers, 8 reps. apptd. by court, reps. of local authorities in the E. Midlands area, 7 senate members, 3 reps. apptd. annually by council and 1 rep. of convocation. It controls the management and admin. of all revenue and property through the bursar and his dept. Subject to control by the council, the senate, which is presided over by the vice-chancellor, regulates academic matters. Its other members are the deans, the profs., the dir. of the inst. of educn., indep. bds. of depts., the librarian, 6 elected members of the non-professional staff and other reps. of fac. bds. as approved by court. To each fac. bd. are assigned specific powers, incl. that of expressing its opinion to senate on any matter relating to the fac.

INCOME (1959-60). Total income, £1,263,996

Percentages derived from principal sources: parliamentary grants, 69.9 per cent.; fees, 12.1 per cent.; local authority grants, 5.8 per cent.; endowments, donations and subs., 3.4 per cent.; other income, 8.8 per cent.

FACULTIES AND DEANS. *Agric. & hort.*, Prof. F. L. Mithorpe (agric. bot.); *appl. sci.*, Prof. J. E. Parton (electr. engin.); *arts*, Prof. J. S. Roakell (hist.); *educn.*, Prof. M. M. Lewis (Inst. of Educn.); *law & soc. scis.*, Prof. J. C. Smith (law); *pure sci.*, Prof. D. D. Eley (phys. chem.).

UNIVERSITY PRECINCT The univ. site is a park bounded by Univ. Boulevard, Clifton Boulevard, Derby Rd. and Beeston Lane. From a N-S ridge across the centre, the land falls to level areas on the E & W. edges of the park. It is planned that the bldgs. of general use, incl. library and senate house, shall be grouped with the non-sci. facs. on the hill in the centre of the site. The pure and appl. sci. facs. will be on the level area to the E. Halls of residence, each with an associated group of tutors' houses, will stand on the central ridge itself and along the N. & W. perimeters. By concentrating the teaching bldgs. in groups, and by keeping the halls mainly on the edges of the site, it will be possible to preserve the park-like nature of the univ. precinct, with belts of tree-covered lawns and meadows lying between and around the groups of bldgs.

The sch. of agric., comprising the fac. of agric. & hort., is located 10 miles from the univ., between Nottingham, Derby and Loughborough. **Address:** Univ. of Nottingham School of Agriculture, Sutton Bonington, Loughborough (tel. Kegworth 386)

LIBRARY. About 184,000 vols. and 66,000 pamphlets. Sp. collections incl. the French Revolution & Napoleonic collection, 2000 vols.; the Henry Mellish meteorological collection, 700 vols.; the W. G. Briggs collection of early sch. books and the D. H. Scott collection of 6200 pamphlets on paleobot. The library is an approved repository for manorial documents, and among the more important records are those relating to the Duke of Portland, Earl Manvers, Lord Middleton, Visc. Galway, the Hatfield Chase corp., Mellish Trustees, Newcastle Trustees and the Archdeaconry of Nottingham. Current periodicals number over 500. The main reading rooms accommodate over 400 readers. The library at the sch. of agric. contains over 9000 vols.

LABORATORIES. Equipped for res. in all sci. subs. New labs. in chem., bot. and zool., agric. scs., mining engin. and metall., labs. for other branches of engin. and for phys. under constrn.

MUSEUMS. Archaeological, houses Margidunum Collection (made by the late Dr. F. Oswald) of Roman pottery. Geological. Also scientific collections in various labs. and objects of historical interest distributed about the univ. bldgs. Curator: W. R. Chalmers, MA.

INSTITUTE OF EDUCATION, Redcourt, Derby Rd, Nottingham (tel. Nottingham 56101) (see also 'Teaching Staff', above) The inst is responsible for approving courses and examining students preparing to become teachers, youth leaders and tutors in adult educn. It also provides a variety of services for those engaged in educn in the area. The constituent colls of the inst are the Derby, Kesteven, Lincoln, Loughborough, Matlock, City of Nottingham and Nottinghamshire County Trg. Colls.

ADMISSION. See Appendix III. Exceptionally, non-members of the univ may be admitted to lectures by arrangement with the hd of the dept.

FIRST DEGREES Pass degrees of BPharm, BSc in agric., hort. or dairying, BSc in civil, mech., electr. or mining engin—4 yrs; hons degrees, BPharm, BSc in fac. of pure sci., BSc in fac. of agric. & hort., BSc in fac. of appl. sci.—4 yrs; hons degrees, LLB, BA, BMus—3 yrs. Candidates may be exempted from the inter. exam and the inter. course of study if they have reached a satisfactory standard in a GCE exam or in a recognized equivalent exam, but in the BA and BMus there is no inter. course and no exemptions are granted. The min. residence in the univ for graduation is 3 yrs. (under certain conditions grads of other univs., 2 yrs.)

The LLB, BMus and all courses for BA are hons courses, although if hons standard is not reached a pass degree may be awarded. The BA can be awarded with hons. in classics, Latin, Greek, and hist., Engl., French, Spanish, German, mediev., & mod. hist., econ., & soc. hist., theol., music, maths., geog., Slavonic langs., Latin & French, Latin & Spanish, Engl. & philos., Engl. & econ. & soc. hist., German & philos., maths. & philos., theol. & philos., philos., psychol., sociol., econ., soc. admin., indust. econ., politics or law.

Hons. students in French, German, Spanish and Russian spend the 3rd term of the 1st yr at an approved foreign univ. The law dept. prepares students for the bar exams as well as for the LLB.

All BPharm students follow the same courses for 2 yrs. after inter., and divide into pass and hons courses for the last yr.

For BSc in pure sci., all students enter for hons. courses in maths., phys., chem., bot., zool., geol., geog., psychol., but may be transferred to a general course after 1 or 2 yrs., and in hons. courses a pass degree may be awarded if hons. standard is not reached.

In the fac. of agric. & hort. all degree students follow the same courses for 2 yrs. after inter., and divide for the last yr into hons. agric., agric. bot., agric. chem., agric. microbiol., agric. zool., or hort. and pass agric. or hort.

The 1st yr. course after inter. in appl. sci. is common to all degree students except metall.; in 2nd yr. students specialize in civil, mech., electr., mining or chem. engin., and in 3rd yr. each course divides into a pass and an hons. stream, except that for chem. engin. there is no pass degree.

The 3-yr. post-inter. metall. course is an hons. course, although a pass degree may be awarded if hons. standard is not achieved. In all appl. sci. courses practical experience obtained during vacations, in works or mines as appropriate, is essential.

HIGHER DEGREES DLitt, DSc, DD, LLD, DMus—conferred on grads. of the univ. of at least 7 yrs' standing, or on grads. of other approved univs. of at least 7 yrs' standing who have been full-time members of staff of the univ. for at least 4 yrs., for distinguished, substantial and original contributions to learning. PhD—conferred on grads. of this univ. or other approved univs. after normally not less than 2 yrs' full-time directed res. in the univ., pt.-time res. for not less than 4 yrs., may be permitted, if substantial lab. work is not involved. MA, LL.M., MEd, MPharm, MSc—conferred on grads. of the univ. in the appropriate fac. after res. extending over at least 1 yr. and on grads. of approved univs. after at least 2 yrs., also conferred on non-grads. under certain conditions, after res. extending over at least 4 yrs. Candidates without the univ. dipl. in educn. studies cannot be admitted to the MEd course. MA in classics and MSc in mycol.—awarded on an exam taken after an advanced course of instructn. of at least 1 yr.'s duration.

BD—may be conferred on grads. of approved univs. after at least 3 yrs.' res. (2 yrs. for holders of a higher degree, by exam or res. in theol.) who pass a qualifying exam. and present a satisfactory thesis, 1st or 2nd class hons. in theol. or a higher degree by exam or res. in theol. exempts from the qualifying exam.

HONORARY DEGREES DD, LLD, DLitt, DMus, DSc, MA.

The univ. does not award EXTERNAL DEGREES.

DIPLOMAS. Dipl. in English studies for overseas students, 1 yr. (candidates must have qualifs. comparable with those of a British grad.); appl. soc. studies (17-month course for grads. who have not studied soc. sci., wishing to enter field of child care or probation), adult educn., 1 yr. postgrad., educn. studies, 2 yrs. pt.-time postgrad. (candidates must have 2 yrs' approved experience in educn. before admission), religious educn., 1 yr., educn. of backward children (3-yr. pt.-time course for qualified teachers), dairy sci., 1 yr. postgrad., pol., econ. and soc. studies, 4 yrs' pt.-time attendance at extra-mural courses (candidates must be over 21 and pass an entrance exam), primary educn., secondary educn., 3-yr. pt.-time courses at Inst. of Educn. (candidates must be trained qualified teachers with 3 yrs' teaching experience).

CERTIFICATES Cert. in Engl. studies for overseas students, 1 yr., theological & educn. studies, 3 yrs. (awarded in conjunction with Paton Congregational Coll.), educn., 1 yr. postgrad.

RESEARCH Facilities for research in all subjects mentioned under 'First Degrees' above. A complete list of current res. is given each yr. in the

Jan. edition of the univ. *Gazette*. A list of theses on which higher degrees have been awarded and details of public work are given in *Annual Report*.

FEES *Annual fees* (comprising matric, registration, tuition, exam. and graduation fees, and students' union sub.). Bachelor's degrees: BA, BMus, LLB, BSc (without lab facilities), £56, BSc in pure sci (with lab facilities), BPharm, BSc in appl sci, BSc in agric and hort., £66. Postgrad study or res (incl students' union sub.) with lab facilities—£46 (full-time), without lab facilities—£36 (full-time). Dipls and certs in arts, dipl in adult educn, £53, in religious educn, £60, cert in educn, £71. Dipl in educn of backward children, 10 gs. Dipls in agric, £62.

ACADEMIC YEAR. Oct to June: 3 terms of 10 wks each.

UNIVERSITY EXTENSION (see also 'Teaching Staff', above). The dir of extra-mural studies is hd of the dept of extra-mural studies, and is assisted by a dep dir, 18 full-time members of staff and many pt-time tutors and lectrs. *Address:* Univ of Nottingham Adult Educn Centre, 14 Shakespeare St, Nottingham (tel.: Nottingham 43022). The dept. is responsible for Pilgrim Coll., a non-residential adult coll. in Boston, Lincs. (Warden: A. Champion, MA Camb.).

PRINCIPAL OPEN AWARDS (SCHOLARSHIPS AND EXHIBITIONS) offered to students entering the univ. to read for a 1st degree: 5 Foundation scholps (£80 p.a.), 5 exhibitions (£50 p.a.), 1 Nottm. Co-operative Soc. scholp. (£50 p.a.).

POSTGRADUATE AWARDS open to grads. of other univs. see p. 808.

CAREERS AND APPOINTMENTS BOARD (For sec., see 'Admin. and Other Staff', above). The bd gives advice on careers and assists students to obtain posts on completion of their studies, and temporary employment during univ. vacations.

GRADUATES' ASSOCIATIONS *Convocation* consists of all grads. of the univ., together with officers and the academic staff. Its privileges incl. nominating reps. on court and council, and entering into communication with court, council or senate on any matter affecting the univ. *The Association of Past Students* aims at maintaining social contact between past students of the Univ. College, Nottingham, and of the univ. All past registered day students of the univ. coll. and all past students of the univ. are eligible for membership.

RESIDENCE (For wardens, see 'Admin. and Other Staff', above). For men: Hugh Stewart Hall (tel.: Beeston 25-4452), 190 students,

Wortley Hall (tel.: Nottingham 75600), 93 students, with annexe Lenton Hurst, adjoining univ. park, 30 students; Crripps Hall (tel. Beeston 25-8673), 200 students, with annexe Lenton Close, 25 students. For women: Florence Boot Hall (tel.: Beeston 25-4536), 110 students, in univ. park, with annexes, Broadwood, The Oaks and The Pines, 48 students; Florence Nightingale Hall (tel.: Beeston 25-5544), 143 students, with annexes Lenton Fields and Lenton Eaves adjoining univ. park, 40 students. At the Sch. of Agric., Sutton Bonington (tel.: Kegworth 386), there are halls for 110 men and 70 women. Fees in all halls are £150 p.a. for single study bedrooms and £140 p.a. for shared study bedrooms, but the fees are subject to review at any time. Students not in halls or at home must live in univ. registered lodgings.

UNIVERSITY MILITARY AND AIR FORMATIONS. The univ. O.T.C. (T.A.) comprises sub-units of infantry, engineers and R.E.M.E. Cadets enlist for 2, 3 or 4 yrs., pay, allowances and uniforms are on normal T.A. scales. Women undergrads. may become members of the W.R.A.C. (T.A.) sub-unit with similar conditions of service and privileges to those of men cadets in the O.T.C. The univ. air squadron is in the home command of the R.A.F. and comprises a flying flight and a technical flight.

STUDENT ATHLETIC FACILITIES The univ. playing fields, nearly 40 acres in extent, adjoin univ. park, and provide for rugby and association football, hockey, lacrosse, cricket, net-ball and tennis. There is a boat-house at Trent Bridge. Indoor games are played in the indoor sports centre in univ. park.

STUDENTS' UNION There is a union of students for the promotion of corporate feeling and the general interest of students and to afford a recognised channel of communication between students and the univ. authorities. All full-time students become members.

PUBLICATIONS. *Calendar*—15s., annually (Oct.), *Gazette* (once a term); *Annual Report* (Dec.), *Faculty and Departmental Prospectuses*—2s., annually (Sept.), *Scholarships, Fellowships and Prizes*—1s. 6d., annually, *Courses in English Studies for Overseas Students, Regns for Higher Degrees, General Regns and Information for Students*—annually. *Regns for Matric. and Faculty Admission Requirements*. The *Bulletin of the Inst. of Educn.*—1s. 6d. for 3 issues, publ. once a term. Students' mags: *The Gong*—1s., once a term, *Survey*—1s., once a term, *Union Handbook*—annually (issued free to all students). *The History of the Univ. Coll., Nottingham, 1887-1948*, by A. C. Wood (B. H. Blackwell, Ltd., 1954), 15s.

THE YEAR 1960

PRINCIPAL BENEFICIARIES D.S.I.R. grants totalling £10,000 for specific res. projects in dept. of phys.

MAJOR BUILDING DEVELOPMENTS. Bldgs. completed: chem. dept., 1st-yr. teaching block for appl. sci. depts., educn. and soc. sci. bldg.

NEW DEPARTMENTS AND CHAIRS. Psychol.; inorg. chem., pharmaceut. chem., chem. engin.

RETIREMENTS Prof A. C. Wood (mod. hist.), Dorothy Bexon (bot.); E. C. Eagle (extra-mural studies)

RESIGNATIONS. Prof J. A. Pope (mech. engin.), to indust. appt., L. R. Amey (indust. econ.), apptd. to chair of accty., Brist.; F. R. Green (agric.), to set up own farm; F. Hepburn (phys.), apptd. lectr. in med. phys., Leeds; E. Meyer (agric. econ.), apptd. to O.E.E.C.; R. Scott (dairying), apptd. lectr. in dairying, R'dg.; G. W. G. Sharp (pharm.), apptd. to fellowship, Inst. Chem. Res., Middlessex Hosp. Med. Sch.; E. R. S. Ffioot (dep. librarian), apptd. librarian, Edin.; J. P. Stevens (admin.), apptd. to post in Br. Council

DEATHS. Emer. Prof. H. G. Robinson (agric.).

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	1777	129
Women . .	718	23
Total . . .	2495	152

Distribution by Faculties. Agric., 237; appl. sci., 363, arts, 559; educn., 170; law & soc. sci., 416, pure sci., 902. Total: 2647.

Included in the figures above are:—

Postgraduate students, 454.

New admissions, 870

Students from other countries, 98. (Countries from which largest numbers came. India, 14, Nigeria, 13, Sudan, 7, Iraq, 6; U.S.A., 6).

DEGREES AWARDED (1959-60) Agric.. BSc, 22; BSc (hons.), 13, MSc, 1, PhD, 4. Appl. sci.. BSc, 22; BSc (hons.), 58; MSc, 4; PhD, 13; DSc, 1. Arts.. BA, 5, BA (hons.), 136; BMus (hons.), 3; MA, 11; PhD, 3. Educn.. MEd, 2, PhD, 2. Law & soc. sci.. BA, 10; BA (hons.), 78; LLB, 4, LLB (hons.), 14, MA, 4, PhD, 2. Pure sci.. BPharm, 12; BPharm (hons.), 7, BSc, 85, BSc (hons.), 110, MPharm, 1, MSc, 16, PhD, 32. Total number of first degrees awarded, 579

DIPLOMAS AWARDED (1959-60) Dairying, 16, Engl. studies for overseas students, 2; pol. econ. & soc. studies, 3, educn. studies, 5

CERTIFICATES AWARDED (1959-60) Engl. studies for overseas students, 6, educn., 128, pharm., 4

UNIVERSITY OF OXFORDS

Founded in the 12th century

Postal Address . Oxford, England

Cables and Telegrams University Registry, Oxford

Telephone (Registry) . Oxford 48491 (For telephone numbers of university departments, see p. 1161)

CHANCELLOR—The Rt. Hon. M. H. MACMILLAN, Hon. DCL *Durh.*, Hon. LLD *A.N.U. & Ceyl.*, MA DCL, Hon. Fellow of Balliol College

HIGH STEWARD—The Rt. Hon. LORD SIMONDS, D Litt *R'dg.*, MA Hon. DCL, Hon. Fellow of New College

VICE-CHANCELLOR—A. L. P. NORRINGTON, MA, President of Trinity College

PROCTORS—J. M. THOMAS, [New], MA DPhil, D. MITCHELL, [Worc], MA

ASSESSOR OF THE CHANCELLOR'S COURT—Sir C. H. M. WALDOCK, [All S], QC, CMG, OBE, MA DCL

PUBLIC ORATOR—A. N. BRYAN-BROWN, [Worc], MA

BODLEY'S LIBRARIAN—J. N. L. MYRES, [Ch. Ch.], Hon. LLD *Tor.*, MA, FSA, FRHistS

KEEPER OF THE ARCHIVES—W. A. PANTIN, [Oriel], MA, FBA, FRHistS

REGISTRAR—Sir FOLLIOTT H. SANDFORD, [New], KBE, CMG, MA

SECRETARY OF FACULTIES—C. H. PATERSON, [Corp], MA

SECRETARY TO THE CURATORS OF THE UNIVERSITY CHEST—H. H. KEEN, [Ball.], MA, FCA

TEACHING STAFF

[* = Common University Fund Lectures (see p. 1155), † = Part-Time]

The name of the college of which the teacher is a present member is denoted by one of the abbreviations in the following list. Names of teachers who are also heads, fellows, or lecturers of colleges occur in the college entries on pp. 1137-1154.

<i>Men's Colleges</i>		<i>Men's Colleges</i>		<i>Men's Colleges</i>	
All S	All Souls College	Mansf	Mansfield College	Trin.	Trinity College
Ball	Balliol College	Mert	Merton College	Univ	University College
Bras	Brasenose College	New	New College	Wadh	Wadham College
Camp	Campion Hall	Oriel	Oriel College	Worc	Worcester College
Ch. Ch.	Christ Church	Pemb	Pembroke College	<i>Women's Colleges</i>	
Corp	Corpus Christi College	Qu	The Queen's College	L. M. II	Lady Margaret Hall
Exeter	Exeter College	Reg. P.	Regent's Park College	S. Ann	St. Anne's College
Greyf.	Greyfriars	S. Ant	St. Antony's College	S. Hil	St. Hilda's College
Hertf.	Hertford College	S. Ben	St. Benet's Hall	S. Hug	St. Hugh's College
Jesús	Jesús College	S. Cat	St. Catherine's Society	Som.	Somerville College
Keble	Keble College	S. Edm	St. Edmund Hall	<i>Men's and Women's College</i>	
Linc	Lincoln College	S. Joh	St. John's College	Nuff	Nuffield College
Magd	Magdalen College	S. Pet	St. Peter's College		

Agricultural Economics

Clark, C. G., [Bras], MA

Dir, Inst for Res in Agric Econ.

University Demonstrators

Hunt, K. E., [Exeter], MA *Camb & Oxon*

Hirsch, G. P. H., [Linc.], MA (Rural Soc. Org.)

Maudslayi, A. H., [Linc.], BSc *R'dg.*, MS *Corn.*, MA

Antill, A. G., [S. Cat.], MA

Beckett, W. H., [Ball.], BSc *Lond.*, MA *Camb. & Oxon.*

Allen, G. R., [S. Edm.], MA

Senior Research Officer

Jones, G. T., BA *Camb.*

§ Member of the Association of Universities of the British Commonwealth

Agriculture

Blackman, G. E., [S. Joh.], BA *Camb.*, MA,
FRS (Rural Econ.) Sibthorpe Prof.
Nye, P. H., [Ball.], BSc MA (Soil Sci.) Reader

University Demonstrators

Clarke, G. R., [Oriell], BSc MA
Soper, M. H. R., [Qu.], OBE, MA
Masefield, G. B., [Ball.], MA
Barry, J. M., [Qu.], MA DPhil
Lucas, R. L., [New], PhD *Camb.*, MA
Clarke, J. R., [S. Joh.] BSc *W. Aust.*, MA DPhil
Higgs, J. W. Y., [Exeter], MA *Camb. & Oxon.*
Harley, J. L., [Qu.], MA DPhil
Beckett, P. H. T., [Wadh.], MA
Smith, D. C., [Qu.], MA DPhil

Senior Research Officers

Martin, R. P., [Magd.], MA DPhil
Loughman, B. C., [Lanc.], BSc *Wales*, PhD *Camb.*,
MA

Anatomy, Human

Clark, Sir Wilfrid E. Le G., [Hertf.],
DSc *Lond.*, Hon. DSc *Durh.*, Hon.
MD *Malb.*, Hon. LL.D. *Malaya*, MA,
FRAI, FRCS, FRS (Anat.) Dr Lee's Prof.
Weddell, A. G. M., [Oriell], MD DSc *Lond.*,
MA Reader
Barer, R., [Hertf.], MC, MB BS BSc *Lond.*,
MA Demr.
Crawford, G. N. C., [Exeter], MB BS *Lond.*,
MA Demr.
Powell, T. P. S., [S. Joh.], MA Demr.
Dick, D. A. T., [Mert.], MB ChB *Glas.*,
MA DPhil Demr.
Cowan, W. M., [Pemb.], BM MA DPhil Demr.
Meek, G. A., [Magd.], BSc PhD *Lond.*,
MA Sr. Res. Officer

Anglo-Saxon, see English**Anthropology, Physical**

Weiner, J. S., [Hertf.], PhD *Lond.*, MSc *Rand.*,
MA Reader
Roberts, D. F. B., [Worc.], MA DPhil Demr.

Anthropology, Social

Evans-Pritchard, E. E., [All S.], PhD *Lond.*,
MA, FBA Prof.
Peristany, J. G., [Oriell], PhD *Camb.*,
MA DPhil, FRAI Sr. Lectr.
Beattie, J. H. M., [Lanc.], BA *Dub.*,
BLitt MA DPhil Sr. Lectr.
Needham, R., [Mert.], BLitt MA DPhil Lectr.

Arabic

Beeston, A. F. L., [S. Joh.], MA DPhil
Laudian Prof.
Walzer, R. R., [Oriell], DPhil *Berl.*, MA,
FBA (A. & Greek Philos.) Reader
Lewis, G. L., [S. Joh.], MA DPhil
(Islamic Studies) Sr. Lectr.

Jones, A., [Ball.], MA *Camb. & Oxon*
(Islamic Hist. & Turkish) Lectr.
Richards, D. S., [Mert.], MA Lectr.

Aramaic and Syriac

Brockington, Rev. L. H., [S. Cat.], BD *Lond.*,
MA Sr. Lectr.

Archæology

Hawkes, C. F. C., [Kebble], MA, FRAI,
FBA, FSA (European A.) Prof.
Robertson, C. M., MA *Camb. & Oxon*
(Classical A. & Art) Lincoln Prof.
Richmond, I. A., [All S.], CBE, Hon. LL.D.
Edu., Hon. LittD *Leeds & Manc.*,
Hon. DLit *Belf.*, MA, FBA, FSA
(A. of Roman Empire) Prof.
Boardman, J., [Wadh.], MA *Camb. & Oxon*
(Classical A.) Reader
Hulin, P., [Ch. Ch.], MA (Nr. Eastern A.) Lectr.
*Gray, Dorothea H. F., [S. Hug.], OBE, MA
(Homeric A.) Lectr.
Baden-Powell, D. F. W., [Oriell], BSc MA
(Prehistoric A.) Lectr.
Hall, E. T., [New], MA DPhil
Dir. of Res. Lab. for A. & Hist. of Art
Aitken, M. J., [Wadh.], MA DPhil
Dep. Dir. of Res. Lab. for A. & Hist. of Art

Art, see also Archæol.

Wind, E., [Trin.], DPhil *Hamburg*, MA
(Hist. of A.) Prof.
Clark, Sir Kenneth M., [Magd.], MA
Hon. DLitt Slade Prof. (1961-62)
Horton, P. F., [New], MA
(Drawing) Ruskin Master
Pächt, O. E., [Oriell], PhD *Hesdel.*, MA,
FBA (Mediev. A.) Sr. Lectr.

Assyriology

Gurney, O. R., [New], MA DPhil, FSA
Shillito Reader

Astronomy

Blackwell, D. E., [New], PhD *Camb.*, MA
Camb. & Oxon Savilian Prof.
Adam, Madge G., [S. Hug.], MA DPhil Demr.
Petford, A. D., [New], MA DPhil Grad. Asst.

Biochemistry

Krebs, Sir Hans A., [Trin.], MD *Hamburg*,
Hon. DSc *Chic., Sheff. & Lond.*, Hon.
MD *Freib.*, Hon. LL.D. *Glas.*, MA
Camb. & Oxon., FRS Whitley Prof.
Woods, D. D., [Trin.], PhD *Camb.*,
MA *Camb. & Oxon.*, FRS
(Chem. Microbiol.) Iveagh Prof.
Carter, C. W., [Qu.], BM MA Reader
O'Brien, J. R. P., [Pemb.], BSc MA
(Clim. B.) Reader
Parsons, D. S., [Mert.], MA DM Demr.
Parkes, G. D., [Kebble], BSc MA DPhil,
FRIC Demr.

- Kent, P. W., [Ch. Ch.], BSc PhD *Birm.*,
MA DPhil, FRIC Demr
- Butt, V S., [Qu.], BSc PhD *Brist.*, MA
(Bot. & B.) Demr
- Tucker, R. G., [Ball.], BSc BM MA
Ord, Margery G., [L. M.H.], BSc
PhD *Lond.*, MA Demr
- Bartley, W., [S. Cat.], PhD *Sheff.*, MA
Peacocke, A. R., [S. Pet.], BSc MA DPhil
Whitton, R., PhD *Sheff. & Camb.*
Lascelles, June, [Som.], MA DPhil
(Microbiol.) Demr
- Pasternak, C. A., [Magd.], BSc MA
DPhil Demr
- Whitehouse, M. W., [Kebble], BSc MA
DPhil Demr
- Stocken, L. A., [S. Cat.], BSc *Lond.*, MA
DPhil, FRIC Sr Res Officer
- Acheson, R. M., [Qu.], BSc MA DPhil
(Human Nutrition) Sr. Res. Officer
- Cecil, R., [Ball.], DFC, MA DPhil
Sr Res Officer
- Biometry**
- Bailey, N. T. J., [Ch. Ch.], MA *Camb. &
Oxon.*, DSc Reader
- Scott, J. F., [Ch. Ch.], MA *Camb. & Oxon.*
Demr
- Bulmer, M. G., [Mert.], MA DPhil Demr
- Botany**, see also Agric
- Darlington, C. D., [Magd.], PhD *Lond.*,
DSc *Lond. & Oxon.*, MA, FRS
Sherardian Prof
- Clowes, F. A. L., [Magd.], MA DPhil Demr
- Butt, V S., [Qu.], BSc PhD *Brist.*, MA
(B. & Biochem.) Demr
- Bevan, E. A., [Univ.], BSc *Wales*, PhD *Glas.*,
MA Demr
- Fuller, K. W., [Mert.], PhD *Camb.*,
MA *Camb. & Oxon.* Demr
- Woodell, S. R. J., [Pemb.], PhD *Durh.*,
MA Demr
- Lewis, K. R., [Lanc.], MA
DPhil Demr
- Warburg, E. F., [Ch. Ch.], PhD *Camb.*,
MA Druce Curator
- Celtic**
- Foster, I. L., [Jesus], MA *Wales & Oxon.*,
FSA Jesus Prof.
- de Vries, J., O'Donnell Lectr
- Chemistry, Inorganic**
- Brewer, F. M., [Lanc.], MBE, PhD *Corn.*,
BSc MA, FRIC Reader
- Staveley, L. A. K., [New.], MA
Lunnatt, J. W., [Qu.], MA DPhil, FRS Demr
- Woodward, L. A., [Jesus], PhD *Leip.*, BSc
MA Demr
- Phillips, C. S. G., [Mert.], MA
Williams, R. J. P., [Wadh.], MA DPhil Demr
- Buckingham, A. D., [Ch. Ch.], MSc *Syd.*,
PhD *Camb.*, MA *Camb. & Oxon.* Demr

- Venanzi, L. M., [Magd.], DiplChem *Kiel*,
DrChem *Trieste*, MA DPhil Demr
- Rossotti, F. J. C., [S. Edm.], BSc MA
DPhil Demr

Chemistry, Organic

- Jones, E. R. H., [Magd.], DSc *Mane.*,
PhD *Wales*, MA, FRS, FRIC Waynflete Prof
- Smith, J. C., [New.], MSc *N.Z.*, PhD *Mane.*
MA DSc Reader
- Waters, W. A., [Ball.], PhD *ScD Camb.*,
MA *Camb. & Oxon.*, FRS, FRIC
(Phys. Org. C.) Reader
- Barltrop, J. A., [Bras.], BSc MA DPhil Demr
- Tomlinson, Muriel L., [S. Hil.], MA *Camb.*
& *Oxon.*, DPhil DSc, FRIC Demr
- Polgar, N., [S. Cat.], DPhil DSc *Vienna &
Oxon.*, MA Demr
- Young, G. T., [Jesus], BSc *Birm.*, PhD
Brist., MA, FRIC Demr
- Bailey, A. S., [Oriell.], BSc MA DPhil Demr
- Brown, B. R., [Oriell.], MA DPhil Demr
- Halsall, T. G., [Magd.], MSc PhD *Mane.*,
MA Sr. Res. Officer
- Whiting, M. C., [Lanc.], BSc PhD *Lond.*,
MA Sr. Res. Officer
- Meakins, G. D., [Bras.], MA DPhil Grad. Asst
- Thaller, V., [Magd.], Dr *Zagreb*, MA Grad. Asst.

Chemistry, Physical

- Hinshelwood, Sir Cynl N., [Exeter], OM,
Hon *ScD Dub. & Camb.*, Hon DSc
Lond., *Leeds*, *Sheff.*, *Brist. & Hull*, Hon.
LLD *Wales*, MA DSc Hon DCL,
FRIC, FRS (Chem.) D1 Lee's Prof
- Thompson, H. W., [S. Joh.], CBE,
PhD *Berl.*, MA DSc, FRS
(Infra-Red Spectroscopy) Reader
- Bell, R. P., [Ball.], MA, FRS Reader
- Bowen, E. J., [Univ.], MA DSc, FRS
Aldrichian Praelector, Demr
- Sutton, L. E., [Magd.], MA DPhil, FRS Demr
- Lambert, J. D., [Trin.], MA Demr
- Barrow, R. F., [Exeter], BSc *Lond.*, MA
DPhil Demr
- Richards, R. E., [Lanc.], MA DPhil, FRS Demr
- Dean, A. C. R., [S. Cat.], BSc *Glas.*, MA
DPhil, FRIC Sr. Res. Officer
- Coles, B. A., [Magd.], MA DPhil
Sr. Res. Officer
- Danby, C. J., [Worc.], BSc MA DPhil
Grad. Asst.

Chinese

- Hawkes, D., [Univ.], MA DPhil Prof.
- Wu, S.-C., [Qu.], MA *Yenching & Oxon.*
Sr Lectr.
- Dawson, R. S., [Wadh.], MA Lectr.
- Bownas, G., [Qu.], MA (C. & Japanese) Lectr.

Classical Languages and Literatures

- Lloyd-Jones, P. H. J., [Ch. Ch.],
MA *Camb. & Oxon.* (Greek) Regius Prof.
- Mynors, R. A. B., [Corp.], Hon. DLitt *Durh.*,
MA *Camb. & Oxon.*, FBA
(Latin) Corpus Christi Prof.

- Palmer, L. R., [Worc], BA *Wales*, DPhil
Vienna, PhD *Camb*, MA
(Compar Philol) Prof
Barns, J. W. B., [Corp], MA DPhil
(Papyrol) Sr. Lectr.
Wemstock, S., [Exeter], PhD *Bres*, MA
(Roman Religion) Sr. Lectr
University Lectures
Moorhouse, A. C., [Bras], MA *Camb* &
Oxon (Classical Philol.)
Hunt, R. W., [Ball], MA DPhil, FBA
(Palaeog. & Transmission of Classical
Latin Texts) (†)
Parsons, P. J., [Ch. Ch.], BA
(Documentary Papyrol.)
Barbour, Ruth, [S. Hug.], MA
(Greek Palaeog.) (†)

- *Bartlett, W. S., [Keeble], MA
*Levens, R. G. C., [Mert], MA
*Hardie, C. G., [Magd], MA
*Wells, A. F., [Univ], OBE, MA
*Griffith, J. G., [Jesus], MA
*Bolton, J. D. P., [Qu], MA
*Hicken, Winifred F., [L.M.H.], MA DPhil
*Russell, D. A. F. M., [S. Joh.], MA
*Yorke, E. C., [New], MA *Camb* & *Oxon*.
*Hartley, Mildred, [Som.], MA *Camb* & *Oxon*.
*Burton, R. W. B., [Oriol], MA
*Bryan-Brown, A. N., [Worc], MA
*Bond, G. W., [Pemb.], BA *Dub*, MA
*Nisbet, R. G. M., [Corp.], MA *Glas.* & *Oxon*.
*Stunton, T. C. W., [Wadh.], MA
*Gould, J. P. A., [Ch. Ch.], MA *Camb* & *Oxon*.
*Williams, G. W., [Ball], MA *Dub* & *Oxon*.
*Sullivan, J. P., [Lanc.], MA *Camb* & *Oxon*.
*Hubbard, Margaret E., [S. Ann.], MA
*Ogilvie, R. M., [Ball], MA
*Reynolds, L. D., [Bras.], MA *Camb* & *Oxon*
*Raven, D. S., [Tinn.], BLitt MA

Colonial Economic Affairs, see Soc Studies

Commonwealth Government, see Soc. Studies

Commonwealth Studies

- Chulver, Mrs. Elizabeth M., [Som.], MA Dir
Holdsworth, Mrs. Mary, [S. Hug.], MA
Sr. Res. Officer

Computing Laboratory

- Fox, L., [Ch. Ch.], MA DPhil DSc Dir
Rollett, J. S., [Magd.], MA *Camb* & *Oxon*,
PhD *Leeds* Sr. Res. Officer
Mayers, D. F., BA PhD *Camb.*, MA
Sr. Res. Officer
Hanscomb, D. C., [Ch. Ch.], MA
Sr. Res. Officer

Criminology, see Soc. Studies

Crystallography

- Hodgkin, Mrs. Dorothy M., [Som.], PhD
Camb, Hon. DSc *Leeds*, BSc MA, FRS
Title of Prof., Isaac Wolfson Prof. of
Royal Soc.
Powell, H. M., [S. Joh.], BSc MA, FRS
(Chemical C) Reader

Drivinity, see Theol

Eastern Religions and Ethics

- Zachner, R. C., [All S.], MA Spalding Prof

Economics, see also Soc. Studies

University Lecturers

- Worswick, G. D. N., [Magd.], MA
*Hall, Lady (Laura M.), [Som.], MA
*Ady, Miss Peter H., [S. Ann.], MA
*Leyland, N. H., [Bras.], MA
*Henderson, P. D., [Lanc.], MA
*Clegg, H. A., [Magd. & Nuff.], MA
*Streeten, P. P., [Ball.], MA *Aberd.* & *Oxon*.
*Sargent, J. R., [Worc.], MA
*Richardson, G. B., [S. Joh.], BSc *Aberd.*, MA
*Paul, Mrs. Margaret E., [S. Hil.], BPhil MA
*MacDougall, Sir Donald, [Ball., Wadh. & Nuff.],
CBE, MA
*Ross, C. R., [Hertf.], MA
*Baragwanath, L. E., [Jesus], BA *Melb.*, BPhil
MA
*Wright, J. F., [Trin.], MA
*Scott, M. F., [Ch. Ch.], BLitt MA
*Black, J., [Mert.], MA
*Hargreaves, E. L., [Oriol], PhD *Lond.*, MA
*Stout, D. K., [Univ.], BA
*Eltis, W. A., [Exeter], MA
Andrews, F. W. S., [New & Nuff.],
BSc(Econ) *Lond.*, MA (†)
Seton, F., [Ball. & Nuff.], MA DPhil (†)

Education

- Peterson, A. D. C., [Ball.], OBE, MA
Dir of Dept.
Loukes, H., [Jesus], MA Reader
Griffiths, V. L., [Keeble], OBE, MA Sr. Tutor
Tomlinson, Leila, [Som.], MA Sr. Tutor
Goodrich, Rachel M., [S. Hil.], MA Sr. Tutor
Sprent, R. A. Le G., [Trin.], BSc *Lond.*,
MA Sr. Tutor
Heafford, P. E., [Univ.], BSc *Leeds*, MA
Sr. Tutor
Yates, M. A., BA *Sheff.* Sr. Tutor
Burrows, R. G., [S. Pet.], MA Tutor
Wilkinson, Violet, [S. Hil.], BD *Lond.*,
MA Tutor
Hutchings, D. W., MSc *Lond.* Tutor
Lello, A. J. E., BA *Sheff.* Asst. Tutor
Martin, J., BSc *Lond.* Asst. Tutor
Halls, W. D., [Ball.], DPhil Asst. Tutor

Egyptology

- Četný, J., [Qu.], PhD *Prague*, MA, FBA Prof.

Engineering Science

- Holder, D W., [Bras.], DSc *Lond*, MA Prof
 Motz, H., [Magd], Dring *Vienna*,
 MSc *Dub.*, MA Donald Pollock Reader
 Wise, B., [Trin], MA *Camb & Oxon.* Demr.
 Campbell, J D E., [Mert.], MA *Camb. & Oxon*, DPhil Demr.
 Wilson, S S., [Bras.], MA Demr.
 Todd, J D., [S. Edm.], MA DPhil Demr.
 Bialokoz, J. E., [Magd.], MSc *Birm.*, PhD *Lond*, MA Demr.
 Franklin, R. E., [Worc.], BSc PhD *Lond*, MA Demr.
 Lund, P. G., [Ch. Ch.], MA Demr.
 Woods, L. C., [Ball], MA DPhil DSc Demr.
 Schultz, D L., [Oriol.], DPhil Demr.
 Lightfoot, E., [Pemb.], MSc *Lond*, PhD *Leeds* Demr.

English

- Wrenn, C. L., [Pemb.], MA (Anglo-Saxon) Rawlinson & Bosworth Prof.
 Davis, N., [Mert.], MBE, MA *N.Z. & Oxon* (E Lang. & Lit.) Merton Prof
 Coghill, N. H. K. A., [Mert.], MA, FRSL (E Lit.) Merton Prof
 Cecil, Lord David, [New], CH, Hon Litt *Leeds*, Hon DLit *Lond*, Hon LLD *St And & Lw*, MA, FRSL (E Lit.) Goldsmiths' Prof
 Graves, R. R., [S. Joh.], BLitt MA (Poetry) Prof
 Dobson, E. J., [Jesus], BA *Syd.*, MA DPhil (E Lang.) Prof., Reader
 Walker, Alice, [S. Hil.], MA (Textual Criticism) Reader
 Turville-Petre, E O G., [Ch. Ch.], MA BLitt (Anc. Icelandic) Prof., Reader
 Hofer, P., MA *Hav.* (Bibliog.) Lyell Reader
 Ker, N. R., [Magd.], BLitt MA, FBA (Palaog.) Reader
 Gardner, Helen L., [S. Hil.], Hon DLit *Durh.*, MA, FBA (Renaissance E Lit.) Reader

University Lecturers

- Leishman, J B., [S. Joh.], BLitt MA (E Lit.) Sr. Lectr.
 Campbell, A., [Ball], BA *Birm.*, BLitt MA, FRHistS (Mediev E) Sr. Lectr.
 Griffiths, Mary E., [S. Ann.], MA (E Lang.)
 Jones, H. J. F., [Mert.], MA (E Lit.)
 Lascelles, Mary M., [Som.], BLitt MA (E Lit.)
 Bennett, J. A. W., [Magd.], MA *N.Z. & Oxon*, DPhil (E. Lit.)
 *Dyson, H. V. D., [Mert.], BLitt MA
 *Lea, Kathleen M., [L. M. H.], MA
 *Bateson, F. N. W., [Hertf.], BLitt MA
 *Bamborough, J. B., [Wadh.], MA
 *Bryson, J. N., [Ball], MA
 *Horwood, F. C., [S. Cat.], MA
 *Houghton, Rev R. E. C., [S. Pet.], MA
 *Ing, Mrs. Catherine M., [L. M. H.], MA DPhil
 *Morrison, Christine L., [S. Ann.], MA
 *Stewart, J. I. M., [Ch. Ch.], MA

- *Robson, W. W., [Lanc.], MA
 *Bayley, P. C., [Univ.], MA
 *Bednarowska, Mrs Dorothy M., [S. Ann.], MA
 *Buxton, E. J. M., [New], MA
 *Graddon, Pamela O. E., [S. Hug.], PhD *Lond.*, MA
 *Kean, Patricia M., [L. M. H.], MA
 *Ward, A., [Wadh.], MA
 *Midgley, Rev. E. G., [S. Edm.], MA BLitt
 *Mackenzie, Elizabeth G. W., [L. M. H.], MA
 *Alton, R. E., [S. Edm.], MC, MA
 *Elliot, Anne H., [S. Hil.], MA
 *Trickett, Mabel R., [S. Hug.], MA
 *Tolkien, C. R., [New], BLitt MA
 *Horgan, A. D., [S. Cat.], MA
 *Browning, I. R., [Pemb.], MA
 *Bayley, J. O., [New], MA
 *Mitchell, R. B., [S. Edm.], MA *Melb. & Oxon*, DPhil
 *Jones, E. L., [Magd.], MA
 *Syfret, Rosemary H., [Som.], MA *Camb. & Oxon*.
 *Susam, Celia, [L. M. H.], MA
 *Wordsworth, J. F., [Exeter], MA
 *Ricks, C. B., [Worc.], BLitt MA
 *Gray, D., [Pemb.], MA *N.Z. & Oxon*.
 *Burrow, J. A., [Ch. Ch.], MA
 *Miller, B. D. H., [Bras.], BLitt MA
 *Ingham, Mrs. Patricia T., [S. Ann.], MA
 *Carey, J., [Kebble], MA DPhil
 *Burden, D. H., [Linc.], MA

Entomology, see Zool.

Ethnology and Prehistory

- Penniman, T. K., [Trin.], MA, FSA Curator of Pitt Rivers Museum
 Demonstrators
 Butt, Audrey J., [L. M. H.], BA *Lond.*, BLitt MA DPhil, FRAI
 Burridge, K. O. L., [Exeter], MA
 Britton, D., [Qu.], MA
 Baden-Powell, D. F. W., [Oriol.], BSc MA (Prehist. Archaeol.) Lectr.

Forestry

- Laure, M. V., [S. Joh.], OBE, MA *Camb. & Oxon* Prof.
 Chalk, L., [Univ.], MA DPhil, FLS (Wood Anat.) Reader

Demonstrators

- Jones, E. W., [Magd.], PhD *Camb.*, MA *Camb. & Oxon*.
 Dumbleby, G. W., [Magd.], MA BSc DPhil
 Handley, W. R. C., [S. Joh.], PhD *Leeds*, MA
 Leyton, L., [Qu.], BSc PhD *Leeds*, MA
 MacGregor, J. J., [Ball], BSc *Glas.*, MS *Wis.*, BLitt MA
 Thompson, G. H., [S. Edm.], BSc MA
 Edwardson, T. E., [Wadh.], BSc *Edin.*, MA
 Osmaston, F. C., [S. Joh.], MA
 White, F., [Ball], BA *Camb.*, MA
 Gordon, W. A., [Trin.], MA
 Pitt, C. J. W., [Wadh.], MA
 Hoyle, A. C., [Pemb.], BSc MA (Bot.)
 Tinsley, T. W., PhD *Lond* (F. Path.)

French

- Seznec, J. J., [All S], DèS L *Paris*, Hon MA Hon.
DLatt *Harv*, MA, FBA
(F Lat) Marshal Foch Prof
Starkie, Enid M., [Som], DèS L *Paris*, Hon.
DLatt *Exe*, MA DLatt, FRSL
(F Lat) Reader

University Lecturers

- Robson, C. A., [Ch. Ch], BLitt MA
(F Philol & Old F Lat) Sr. Lectr
Sayce, R. A., [Worc], MA DPhil (†)
Pernan, R. C. D., [S. Pet], MA (†)
Fargher, R., [S. Edm.], BLitt MA DPhil (†)
*Moore, W. G., [S. Joh], DLatt *Stras.*, MA
*Sutherland, Mrs. D. Rhoda, [L. M. H.], MA
*Crow, A. D., [Orie], BLitt MA
*Macdonald, I., [Qu], MA *Glas. & Oxon.*
*Barnes, Mrs. Anne M., [S. Ann], DrPhil
Berne, MA DPhil
*Gerard Davis, Mrs. Mary I., [S. Hil], MA DPhil
*Shackleton, R., [Bras], MA
*Armstrong, Mrs. Annette E., [Som], MA DPhil
*Howarth, W. D., [Jesus], MA
*Crow, Mrs. Joan, [L. M. H.], MA
*Thomas, J. M., [New], MA DPhil
*Barnett, F. J., [Trin], MA
*Potts, D. C., [Keble], MA
*Baldick, R. A. E., [Pemb.], MA DPhil, FRSL
*Gill, A., [Magd], CBE, MA *Manc. & Oxon.*
*May, Majorie B., [S. Ann], BLitt MA
*Raitt, A. W., [Exeter], MA DPhil
*Spencer, P. H., [S. Cat.], PhD *Camb. & Oxon.*
*Stewart, D. M., [Wadh], BA
*Whitton, D. F., [Lanc], BLitt MA
*Kraishamer, A. J., [Ch. Ch], MA
*Daniel, Vera J., [S. Hug], BA PhD *Lond. & MA*
*Harris, R., [Exeter], MA DPhil
*Tolley, B. R., [Univ.], BA

Geodesy, see Surveying

Geography

- Gilbert, E. W., [Hertf], BLitt MA Prof
Gullick, C. F. W. R., [S. Edm], BLitt
MA (Econ. G) Sr Lectr.
*Martin, A. F., [S. Joh.], MA Sr Lectr.
Beckinsale, R. P., [S. Cat.], MA *Lond. & Oxon.*, DPhil, FRMetS Sr Lectr
Marshall, Mary, [L. M. H.], MA Sr Lectr
Paget, E., [Pemb], MA Lectr.
Smith, C. G., [Keble], MA Lectr.
Houston, J. M., [Hertf], MA *Edm. & Oxon.*, BSc DPhil Lectr
Webb, M. J., [Ball], MA Lectr.
Pollock, N. C., [S. Edm.], BA *Cape T.*, BLitt MA Lectr.
Emery, F. V., [Jesus], BLitt MA (Hist G) Lectr
*Sweeting, Matjone M., [S. Hug.], PhD *Camb.*, MA *Camb. & Oxon* Lectr
Geology
Wager, L. R., [Univ.], ScD *Camb. & MA Camb. & Oxon.*, FRSG, FGS Prof

- Sandford, K. S., [Univ.], TD, MA DPhil DSc Reader
McKerrow, W. S., [Univ.], DSc *Glas.*, MA DPhil, FGS Demr
Edmonds, J. M., [S. Edm.], MA BSc, FGS Demr
Lambert, R. St. J., [Orie], PhD *Camb.*, MA *Camb. & Oxon.*, FGS Demr.
Reading, H. G., [Univ.], PhD *Durh.*, MA Demr
Brown, G. M., [Univ.], BSc *Durh.*, MA DPhil, FGS (Petrol) Demr.

German

- Stahl, E. L., [Ch. Ch], MA *Cape T. & Oxon.*, PhD *Berne* (G Lang & Lit) Taylor Prof.
Ganz, P. F., [Hertf], MA PhD *Lond.* Reader
University Lecturers
Baines, H. G., [S. Edm.], PhD *Tubingen*, MA Sr Lectr.
McLutock, D. R., [Qu], MA (G. Philol & Mediev G. Lit)
McKay, G. W., [Jesus], MA
Barlow, D., [Qu.], BLitt MA (G. Lit)
Sayce, Mrs. Olive L., [S. Hug], MA (†)
Calder, W. M., [Qu], MA (†)
Cowan, J. [New], MA *Camb. & Oxon.* (†)
Harvey, Ruth C., [S. Ann], MA (†)
Dyer, D. G., [Exeter], MA (†)
Green, R. F., [Jesus], MA (†)
Lampert, F. J., [Lanc.], BA (†)
*Pasley, J. M. S., [Bras], MA
*Jacobs, Margaret, [S. Hug], BLitt MA
*Luke, F. D., [Ch. Ch], MA DPhil

Greek, see Classical Langs & Lts.

Greek, Byzantine and Modern Language and Literature

- Trypanis, C. A., [Exeter], DPhil *Atheni*, MA Bywater & Sotheby Prof.
Fletcher, R. A., [Trin], DSC, MA DPhil (Mod. G) Lectr

Hebrew

- McHardy, Rev. W. D., [Ch. Ch.], MA *Aberd., Edm. & Oxon.*, BD Hon. DD
Aberd., DPhil Regius Prof.
Driver, G. R., [Magd], CBE, MC, Hon. DD *Aberd. & Manc.*, Hon. DLitt *Durh.*, MA, FBA (Semitic Philol) Prof., Reader
Patterson, D., [Ch. Ch.], MA *Manc. & Oxon.* (Post-Biblical H.) Cowley Lectr.

History, Ancient

- Syme, Sir Ronald, [Bras.], Hon. DLitt *Durh.* & N Z, MA, FBA Camden Prof.
Andrewes, A., [New], MBE, MA, FBA Wykeham Prof.
University Lecturers
Lewis, D. M., [Ch. Ch.], PhD *Prim.*, MA (Gk. Epigraphy)
Fraser, P. M., [All S], MC, MA, FBA (Hellenistic H)
*Balsdon, J. P. V. D., [Exeter], MA

- *Sherwin-White, A N, [S. Joh.], MA, FBA
- *Henderson, Mrs M Isobel, [Som], MA
- *Chilver, G E F, [Qu], MA DPhil
- *Lepper, F A, [Corp], MA
- *Stevens, C E, [Magd], BLitt MA
- *Gray, E W., [Ch. Ch], MBE, BA *Adel.*, MA
- *Harrison, A. R. W., [Mert], CBE, MA
- *Holladay, A J, [Trin.], MA
- *Brunt, P A, [Oriell], MA
- *Cawkwell, G. L., [Univ.], MA *N Z & Oxon*
- *Jeffery, Lillian H, [L M.H.], MA *Camb. & Oxon.*, DPhil, FSA
- *Forrest, W G G, [Wadh.], MA
- *de Ste Croix, G. E M, [New], BA *Lond.*, MA
- *Stockton, D L, [Bras], MA
- *Meiggs, R, [Ball], MA, FBA
- *Cuff, P J., [Pemb], MA DPhil
- *Mitchell, Mrs Barbara M, [S. Ann], MA
- *Levick, Barbara M, [S. Hil], MA DPhil
- *Frederiksen, M W, [Worc.], MA

History, Modern

- Trevor-Roper, H R, [Oriell], MA Regus Prof.
- ... (H. of British Commonwealth) Best Prof
- Southern, R W., [All S], MA, FBA,
- FRHistS Chichele Prof
- Wernham, R B, [Worc], MA, FRHistS Prof.
- Gibbs, N H., [All S], MA DPhil
- ... (H of War) Chichele Prof.
- Stampp, K M, [Qu], AM PhD *Wis.*, MA
- (American H) H V Harmsworth Prof
- (1961-62)
- Habakkuk, H J, [All S], MA *Camb & Oxon.*,
- FRHistS (Econ H) Chichele Prof.
- Obolensky, Prince D, [Ch. Ch], PhD *Camb.*,
- MA (Russian & Balkan H) Prof
- Davies, C C., [Ball], BA *Waler*, PhD *Camb.*,
- MA, FRHistS (Indian H) Reader
- Hoskins, W. G, [Ch. Ch], MSc(Econ)
- PhD *Lond.*, MA, FRHistS
- ... (Econ H) Reader
- Roth, C, [Mert], BLitt MA DPhil, FRHistS
- (Jewish Studies) Reader
- Chaplain, P. T. V. M., [Wadh], MA
- (Diplomatic) Reader
- University Lecturers
- Pacht, O. E., [Oriell], PhD *Heidel.*, MA,
- FBA (Mediev Art) Sr Lectr.
- Bennett, G, [New], MA
- (Commonwealth H) Sr Lectr.
- Crombie, A C, [All S.], BSc *Melb.*,
- PhD *Camb.*, MA (H of Sci) Sr Lectr
- Fieldhouse, D K., [Qu], MA
- (H of British Commonwealth) Best Lectr.
- Hill, J. E. C., [Ball], MA, FRHistS
- (English H.) Ford's Lectr
- McFarlane, K. B, [Magd.], MA, FSA,
- FRHistS (Late Mediev H.)
- Pantin, W A., [Oriell], MA, FBA, FRHistS
- (Mediev Archaeol & H.)
- Taylor, A. J P, [Magd], MA, FBA
- (Internat H)

- Smalley, Beryl, [S. Hil.], PhD *Manc.*, MA
- Manc & Oxon.*, FRHistS
- Hill, J E C, [Ball], MA, FRHistS
- (16th & 17th Cent H)
- *Hurnard, Naomi D., [L M H], MA DPhil,
- FRHistS
- *Armstrong, C. A J., [Hertf], MA, FRHistS
- *Reeves, Marjorie E, [S. Ann.], PhD *Lond.*,
- MA, FRHistS
- *Ramsay, G D., [S. Edm], MA DPhil, FRHistS
- *Gough, J W., [Ornel], MA
- *Cox, A D. M., [Univ.], MA
- *Maikhham, F M H., [Hertf], MA
- *Collieu, E G, [Bras], BLitt MA
- *MacLagan, M, [Trin], MA, FSA
- *Prestwich, J O, [Qu], MA, FRHistS
- *Barr, W. G, [Exeter], MA
- *Bell, H E, [New], MA *Camb & Oxon.*, FSA
- *Joll, J. B, [S. Ant], MA
- *Kemp, Betty, [S. Hug], BA *Manc.*, MA
- *Buono de Mesquita, D M, [Ch. Ch], PhD
- Camb.*, MA *Camb. & Oxon.*, FRHistS
- *Prestwich, Mrs Menna, [S. Hil.], MA, FRHistS
- *Smith, E. H F., [S. Pet], MA
- *Stuart, C H, [Ch. Ch], MA
- *Thompson, A. F, [Wadh], MA
- *Watson, J S, [Ch. Ch.], MA, FRHistS
- *Whiteman, E Anne O, [L M.H.], MA DPhil,
- FSA, FRHistS
- *Carr, A R. M, [New], MA
- *Colvin, H M., [S. Joh], MA, FRHistS
- *Leyser, K. J, [Magd], MA
- *Price, F D, [Kebell], BLitt MA, FSA, FRHistS
- *Brock, M G., [Corp.], MA
- *Cooper, J P, [Trin.], MA
- *Hale, J R, [Jesus], MA
- *Pelling, H. M., [Qu], PhD *Camb.*, MA *Camb.*
- & Oxon.*
- *Pitt, H G, [Worc], MA
- *Stone, L., [Wadh], MA
- *Stoye, J W, [Magd], MA DPhil
- *Green, Rev V H. H., [Lanc], MA DD *Camb*
- & Oxon.*, FRHistS
- *Wood, Mrs Susan M., [S. Hug], BLitt MA
- *Highfield, J R L, [Mert], MA DPhil
- *Aston, T. H, [Corp], MA
- *Davies, K G, [New], MA *Camb. & Oxon*
- *Mason, J F A, [Ch. Ch.], MA DPhil
- *Hart, Mrs Jennifer M, [S. Ann], MA
- *Ramm, Agatha, [Som], MA *Lond. & Oxon.*,
- FRHistS
- *Morris, Rev C., [Pemb], MA
- *Holmes, G A, [S. Cat.], PhD *Camb.*, MA *Camb*
- & Oxon*
- *Roberts, J. M, [Mert], MA DPhil
- *Mackesy, P G., [Pemb], MA
- *Prest, J M, [Ball], MA
- *Stone, E, [Kebell], MA DPhil
- *Owen, J B, [Lanc.], BSc *N Z.*, MA *N.Z. & Oxon.*, DPhil
- *Dickson, P. G M., [S. Cat.], MA
- *Cohn, E S, [Bras], MA
- *Davis, R. H C, [Mert.], MA, FSA, FRHistS
- *Cowdrey, Rev H E J, [S. Edm], MA
- *Dick, Mrs. Cecilia R., [L M.H.], MA

- *Harvey, Barbara F., [Som.], BLitt MA
 *Firth, A. E., [Univ.], BA
 *Parker, R. A. C., [Qu.], MA DPhil
 *Thomas, K. V., [S. Joh.], MA
 *Lewis, P. S., [All S.], MA
 *Campbell, J., [Worc.], MA
 *Walsh, J. D., [Jesus], PhD *Camb.*, MA *Camb. & Oxon*
 *Bennett, G. V., [New], MA DPhil
 *Campbell, A. E., [Kebble], MA
 *Zeldin, T., [S. Ant.], MA DPhil

Industrial Relations, see Soc. Studies

International Relations, see Soc. Studies

Italian

- Grayson, C., [Magd.], MA
 (I. Studies) Serena Prof
 Reid, T. B. W., [Trin.], MA LLB *Dub.*,
Lésl. Montpellier, MA *Manc. & Oxon*
 (Romance Langs.) Prof
 Griffith, T. G., [Qu.], BLitt MA
 Roaf, Mrs. Evelyn C. M., [Som.], MA
 DPhil Lectr.
 Horne, P. R., [Jesus], BLitt MA Lectr.

Latin, see Classical Langs. and Lits.

Law

- Daube, D., [All S.], PhD *Camb.*, DrJur *Gott.*,
 Hon. LL.D. *Edin.*, MA DCL, FBA
 (Civ. L.) Regius Prof.
 Hanbury, H. G., [All S.], QC, MA DCL
 (English L.) Vinerian Prof.
 Waldo, Sir C. H. M., [All S.], QC, CMG,
 OBE, MA DCL
 (Public Internat. L.) Chichele Prof.
 Hart, H. L. A., [Univ.], MA (Jurisp.) Prof.
 Lawson, F. H., [Bras.], DrJur *Louvain & Fran.*, Hon. LL.D. *Glas.*, DCL, FBA
 (Compar. L.) Prof
 Wade, H. W. R., [S. Joh.], LL.D. *Camb.*,
 MA *Camb. & Oxon* (English L.) Prof.
 Honoré, A. M., [Qu.], BA S.A., BCL MA
 (Roman-Dutch L.) Rhodes Reader
 Nicholas, J. K. B. M., [Bras.], MA
 (Roman L.) All Souls Reader
 Payne, D. J., [All S.], LL.B. *Lond.*, MA
 (English L.) All Souls Reader
 Morris, J. H. C., [Magd.], MA DCL
 (Conflict of Laws) Reader

University Lecturers

- Cross, A. R. N., [Magd.], MA DCL
 (L. of Evidence)
 *Tylor, T. H., [Ball.], BCL MA
 *Davidge, C. V., [Kebble], BCL MA
 *Brown, A. B., [Worc.], BCL MA
 *Butterworth, J. B., [New], MA
 *Carter, P. B., [Wadh.], BCL MA
 *Heuston, R. F. V., [Pemb.], BA LL.B. *Dub.*, MA
 *Maudsley, R. H., [Bras.], LL.B. *Birm.*, BCL MA
 *Slade, E., [S. Joh.], MA
 *Hall, G. D. G., [Exeter], MA

- *Yardley, D. C. M., [S. Edm.], LL.B. *Birm.*,
 MA DPhil
 *Burn, E. H., [Ch. Ch.], BCL MA
 *Trettel, G. H., [Magd.], BCL MA
 *Davies, J. D., [New], LL.B. *Wales*, BCL MA
 *Rogerson, A., [Jesus], MA
 *Simpson, A. W. B., [Linc.], MA
 *Guest, A. G., [Univ.], MA
 *Milsom, S. F. C., [New], MA *Camb. & Oxon*
 *Barton, J. L., [Mert.], BCL MA
 *Harris, D. R., [Ball.], BA LL.M. N.Z., BCL MA
 *Carter, Mrs. Elizabeth M., [S. Ann.], LL.M. *Yale*,
 BCL MA
 *Kaye, J. M., [Qu.], BCL MA
 *McLaggan, M. A., [Ch. Ch.], MA
 *Watson, W. A. J., [Oriel], MA DPhil
 *Reynolds, F. M. B., [Worc.], BCL MA
 *Bentley, D. J., [Hert.], BCL MA

Local Government, see Soc. Studies

Luganda

- Snoxall, R. A., [All S.], MA Lectr.

Mathematics

- Titchmarsh, E. C., [New], Hon. DSc *Sheff.*,
 MA, FRs (Geom.) Savilian Prof.
 Temple, G. F. J., [Qu.], CBE, PhD
 DSc *Lond.*, MA, FRs, FRAES
 (Nat. Philos.) Sedleian Prof.
 Higman, G., [Magd.], MA DPhil, FRs
 (Pure M.) Waynflete Prof.
 Coulson, C. A., [Wadh.], PhD *Camb.*,
 DSc *St. And.*, MA *Camb. & Oxon*,
 FRs, FIP Rouse Ball Prof.
 James, I. M., [S. Joh.], MA DPhil Reader
 Atiyah, M. F., [S. Cat.], PhD *Camb.*,
 MA *Camb. & Oxon*, DPhil Reader
 University Lecturers
 Phillips, E. G., [Kebble], MA DPhil
 Taylor, A. B., [S. Cat.], MA DPhil
 (Fluid Dynamics)

- *Haslam-Jones, U. S., [Qu.], MA DPhil
 *Thompson, J. H. C., [Wadh.], MA DPhil
 *Kendall, D. G., [Magd.], MA
 *Busbridge, Ida W., [S. Hug.], MSc *Lond.*, MA
 DPhil
 *Thompson, E. C., [Jesus], MA
 *de Wet, J. S., [Ball.], BSc *Cape T.*, PhD *Pym*,
 MA *Camb. & Oxon* (Mathl. Phys.)
 *Watson, P. D., [Mert.], MA DPhil
 *Mauldon, J. G., [Corp.], MC, MA
 *Cobbe, Anne P., [Som.], MA DPhil
 *Davies, H., [Ch. Ch.], MA DPhil
 *Gravett, K. A. H., [New], BSc PhD *Lond.*, MA
 *Rayner, Margaret E., [S. Hil.], MSc *Lond.*, MA
 DPhil

- *Kearsley, Mary J., [S. Ann.], MA DPhil
 *Lewis, J. Tr., [Bras.], MA
 *McLeod, J. B., [Wadh.], MA

Junior Lecturers

- Robinson, P. D., [Oriel], MA DPhil
 Sutherland, W. A., [Wadh.], MA *St. And. & Oxon*
 Arthurs, A. M., [Jesus], MA

Medicine, see below

Metallurgy

Hume-Rothery, W., [S. Edm.], OBE, PhD
Lond, Hon DSc *Manc*, MA DSc,
 FRS Isaac Wolfson Prof
 Christian, J. W., [Qu], MA DPhil
 George Kelley Reader
 Martin, J. W., [S. Cat.], PhD *Camb.*, MA
Camb. & Oxon, DPhil Lectr
 Altmann, S. L., [Wadh.], MA
 (Theory of Metals) Lectr
 Hellawell, A., [Kebble], MA DPhil Demr

Meteorology

Biewiec, A. W., [Qu.], PhD *Lond*, MA Reader
 Houghton, J. T., [Jesus], MA DPhil,
 FRMets Lectr.

Mineralogy

Vincent, E. A., [S. Joh.], BSc PhD *R'dg*,
 MA, FRIC, FGS Reader
 Butler, B. C. M., [Jesus], PhD *Camb*,
 MA *Camb & Oxon* Demr

Music

Westup, Sir J. A., [Wadh.], BMus MA
 Hon. DMus, FBA Heather Prof
 Rubbra, C. E., [Worc.], CBE, Hon.
 DCL *Durb*, MA Sr Lectr
 Harrison, F. L., [Mert.], MusD *Dub.*, MA
 DMus Sr Lectr
 Sternfeld, F. W., [Exeter], PhD *Yale*, MA Lectr.
 Andrews, H. K., [New], MusD *Dub*, MA
 DMus †Lectr
 Rose, B. W. G., [Magd.], MusB *Camb*, MA
Camb & Oxon, DMus, FRCO
 Choragus, †Lectr
 *Watson, S., [Ch. Ch.], MA DMus,
 FRCM, FRCO Lectr.
 *Dalton, H. J. M., [Qu.], MA, FRCO Lectr.
 *Lumsden, D. J., [New], MusB PhD *Camb*,
 MA *Camb & Oxon*, DPhil Lectr.

Near East, Modern History of

Houtani, A. H., [Magd.], MA Lectr.

Numismatics

Sutherland, C. H. V., [Ch. Ch.], MA DLitt Lectr.

Kraay, C. M., [Magd.], MA DPhil
 (Greek N) †Lectr.

Palaeography, see English

Papyrology, see Classical Langs & Lits

Persian

Morrison, G., [Corp.], MA Lectr.

Philology, Comparative, see Classical Langs. & Lits.

Philosophy

Kneale, W. C., [Corp.], Hon. LLD *Abod*,
 MA, FBA (Moral P) White's Prof

Ryle, G., [Magd.], MA
 (Metaphysical P) Waynflete Prof.
 Ayer, A. J., [New], MA, FBA
 (Logic) Wykeham Prof
 Farrell, B. A., [Ball.], BLitt MA
 (Mental P) Wilde Reader
 Dummett, M. A. E., [All S.], MA
 (P. of Maths) Reader
 Mihu-Palucio, L., [Oriol.], MA DPhil,
 FBA (Mediev P) Reader
 Owen, G. E. L., [Corp.], BPhil MA
 (Anc P) Reader
 Goodman, N., BS PhD *Harc.* John Locke Lectr.
 University Lecturers

Harré, H. R., [Univ.], BSc N.Z.,
 MA N.Z. & Oxon., BPhil (P of Sci.)
 *Mabbott, J. D., [S. Joh.], CMG, Hon MA
 Edm., BLitt MA
 *Robinson, R., [Oriol.], PhD *Corn*, BLitt MA
 *Macnabb, D. G. C., [Femb.], MA
 *Paul, G. A., [Univ.], MA *Camb. & Oxon.*
 *Cox, H. H., [Lanc.], MA
 *Grice, H. P., [S. Joh.], MA
 *Strawson, P. F., [Univ.], MA
 *Kneale, Mrs. Martha, [L.M.H.], MA
 *Crombie, I. M., [Wadh.], MA
 *Dick, M. W., [Ball.], MA
 *Foot, Mrs. Philippa R., [Som.], MA
 *Hare, R. M., [Ball.], MA
 *Mitchell, B. G., [Kebble], MA
 *Mitchell, D., [Worc.], MA
 *Turner, Rev. V. G., [Camp.], MA
 *Warnock, G. J., [Magd.], MA
 *Gardner, P. L., [Wadh.], MA
 *Pears, D. F., [Corp.], MA
 *Quinton, A. M., [New], MA
 *Sutton, C. W. H., [S. Pet.], MA
 *Wood, O. P., [Ch. Ch.], MA
 *Ackrill, J. L., [Bras.], MA
 *Warnock, Mrs. Helen M., [S. Hug.], BPhil MA
 *Dummett, M. A. E., [All S.], MA
 *Simopoulos, J. C., [S. Cat.], BPhil MA
 *Rees, D. A., [Jesus], MA DPhil
 *McGuinness, B. F., [Qu.], BPhil MA
 *Thomson, J. F., [Corp.], DFC, BA *Lond*,
 MA *Camb & Oxon.*
 *Cohen, L. J., [Qu.], MA
 *Anscombe, G. Elizabeth M. (Mrs. Geach),
 [Som.], MA
 *Lemmon, E. J., [Trin.], MA
 *Urmson, J. O., [Corp.], MC, MA
 *Hinton, J. M. [Worc.], MA *St And & Oxon*
 *Gosling, J. C. B., [Wadh.], BPhil MA
 *Malpas, R. M. P., [Hert.], BPhil MA
 *Wolfram, Mrs. Eva M. S., [S. Hil.], MA DPhil
 *Kirwan, C. A., [Exeter], MA
 *Lucas, J. R., [Mert.], MA
 *Wiggins, D. R. P., [New], MA
 *Woods, M. J., [Bras.], BPhil MA

Physics

Beancy, B., [Wadh.], MA DPhil, FRS
 (Exper. Philos.) Dr. Lee's Prof.

Wilkinson, D H, [Ch Ch.], PhD *Camb.*,
MA *Camb. & Oxon.*, FRS

(Exper Phys.) Prof.

Kuhn, H G., [Ball], DPhil *Gott.*, MA,
FRS Reader

Mendelssohn, K A G, [Wadh.], DPhil
Berl., MA *Berl & Oxon* FRS, FIP

Kurtz, N, [Bras], PhD *Berl.*, MA, FRS, FIP*
Reader

Demonstrators

Price, F. V., [Worc.], BSc MA DPhil

Cooke, A H, [New], MBE, MA DPhil

Collie, C H, [Ch Ch.], BSc MA

Griffiths, J H. E., [Magd], OBE, MA DPhil

Roaf, D, [Ch Ch.], MA DPhil

Rollin, B V., [Wadh.], MA DPhil

Davies, W. T., [Keble], PhD *Camb.*, MA *Camb
& Oxon*

Sanders, J. H., [Oriell], BSc *Lond.*, MA DPhil

Seares, G W., [S Edm], MA DPhil, FAPS

Berman, R., [Univ], MA *Camb & Oxon.*, DPhil

Baggley, D M. S., [Bras], MA DPhil

Hatton, J., [Exeter], MA DPhil

Wilks, J., [Pemb.], MA DPhil

Woodgate, G K., [S Pet.], MA DPhil

Rosenberg, H M., [Bras], MA DPhil

Wolf, W P., [New], MA DPhil

Baker, J M., [Mert.], MA DPhil

Mims, W. B., [Wadh.], MA DPhil

Senior Research Officers

Grace, M. A., [Ch. Ch.], MA DPhil

Shaw, P F. D., [Jesus], MA DPhil

Moffatt, J., [Qu.], MA DPhil

Shaw, D F., [Keble], MA DPhil

Clegg, A B., PhD *Camb.*, MA *Camb & Oxon*

Tanner, N. W., [Bras], MSc *Melb.*, PhD *Camb.*,
MA

Hill, R W., [Corp.], MA DPhil

Robinson, F N. H., [Wadh.], MA DPhil

Mulvey, J. H., PhD *Brist*

Derrick, M., [Ch Ch.], PhD *Birm.*, MA

Williams, W S C., PhD *Lond*

Graduate Assistants

Croft, A. J., [Ch Ch.], MA DPhil

Green, T. L., [Exeter], BSc MA

Lecturers

*Hurst, C., [Jesus], MA DPhil

*Bleaney, Mrs. Betty I., [S Hug.], MA

Physics, Theoretical

Lamb, W E., [New], BS PhD *Calif.*, Hon.

DSc *Penn.*, MA, FAPS, FIP

(Phys.) Wykeham Prof

ter Haar, D., [S. Edm.], DrSc *Ley.*,

MA *St. And & Oxon.*, DSc Reader

Spers, J. A., [Wadh.], MA DPhil Lectr

Ellrott, R. J., [S. Joh.], MA DPhil Lectr.

Blin-Stoyle, R. J., [Wadh.], MA DPhil

Sr Res. Officer

*O'Brien, Mary C M., [L M H.], MA

DPhil Lectr.

*Caine, C. A., [S. Pet.], MA DPhil

*Bink, D M., [Ball], MA DPhil Lectr

Physiology

Brown, Sir G Landor, [Magd], CBE,
MSc MB ChB *Mane.*, Hon LLD *St. And.*,

DULiège, MA, FRCP, FRS

Waynflete Prof

Coxon, R V., [Exeter], MD *Lond.*, MA

DPhil, FRCS, MRCP

(Human Physiol.) Reader

Demonstrators

Leach, E H., [Bras], BSc MA

Gordon, G., [Bras], BSc MA DM

Phillips, C. G., [Trin], BSc MA DM, MRCP

Cunningham, D J C., [Univ], MB ChB *Edin.*,
MA

Banister, Rachel J., [Som.], BSc *Edin.*, MA

Lloyd, B B., [Magd], MA

Torrance, R W., [S. Joh.], BSc BM MA

Prennen, M H L., [Ch Ch.], DrSc *Liège*,

PhD *Camb.*, MA

Widdicombe, J G., [New], MA DPhil

Matthews, P. B. C., [Ch. Ch.], MA DM

Senior Research Officer

Kay, R. H., [Mert.], MA DPhil

Poetry, see English

Political Economy, Political Theory,

see Soc. Studies

Politics, see also Soc Studies

University Lecturers

Crowe, Sybil E., [S Hil.], PhD *Camb.*,

MA *Camb. & Oxon.*, FRHistS

Seton-Watson, C I W., [Oriell], MC, MA

*Blake, R. N W., [Ch. Ch.], MA

*Tate, K., [Magd], MA

*Knapp, W F., [S Cat.], MA

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Camb & Oxon

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Oxon., DPhil

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MA DPhil (Entomol.)

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Leslie, P. H., [Ch Ch.], MA DSc
(Animal Population)
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Parkhouse, J., [Pemb.], MD ChB *Liv.*,
MA First Asst

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- Cosin, L. Z., [Magd.], MA, FRCS Lectr

Hematology

- Macfarlane, R. G., [Ch. Ch.], MD *Lond.*,
MA, FRS, FRCS Reader

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Dir., Nuffield Inst
Ardran, G. M., [Worc.], MA Radiologist

Prichard, Marjorie M. L., [S. Ann], MA
DPhil Sr Res Officer

Medicine

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Ghent, MA MD *Camb*, DM, FRCP,
FRS Regius Prof
Witts, L J., [Magd], CBE, MD *Mane*,
Hon ScD *Dub*, Hon. MD *Brist*, MA
DM, FRCP Nuffield Prof
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Walker, J M., [Worc.], BSc MA DM
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Snell, E. S., MB *Lond* May Reader
Cooke, A. M., [Mert], MA DM, FRCP Lectr
Malliam, P C., [Univ.], BA DM, MRCP Lectr.
Buzzard, E. M., [Magd], BM MA, FRCP Lectr.
Cranston, W. I., MD ChB *Aberd.* First Asst
Lee, G de J., [Pemb], MD *Lond*, MA,
MRCP †First Asst
Callender, Sheila T E., [S Hil], BSc
MD *St And*, MA, MRCP First Asst
Truelove, S C., [Univ], MD *Camb &*
Oxon, MRCP Asst Physician

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MA DSc, FRCPed, FRCP Lectr

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Pennybacker, J B., [Corp], MD *Edn*,
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Obstetrics and Gynaecology

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Stallworthy, J A., [Qu], MB ChB *N.Z.*,
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Ophthalmology

Pirie, Mr's Antonette, [Som], MA
Margaret Ogilvie's Reader
van Heyningen, Mrs. Ruth E., [Som], MA
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Trueta, J A., [Worc.], MD *Barcelona*, Hon.
DSc *Bogotá*, Hon MD *Buenos Aires &*
Rio de Janeiro, MA Hon DSc, FRCS,
Hon FRCSCan, FRFPSSGlas Nuffield Prof.
Lee, M L. H., [Worc.], BA BM First Asst.

Otolaryngology

Macbeth, R G., [Oriell], MA DM,
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Pædiatrics

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Pathology

Flory, Sir Howard W., [Lanc.], MA *Camb*
& *Oxon*, PhD *Camb*, MD *Adel*, Hon
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Nott, *Tor* & *A.N.U.*, Hon. DM
Louvain, BSc, PRS, FRCP Prof
Gladstone, G P., [Ch. Ch], MB BS *Lond*,
MA (Bacteriol) Reader
Abraham, E. P., [Lanc], MA DPhil, FRS
(Chem. P.) Reader
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MA, FRCP
Nuffield Reader, and Dir. of Pathol,
Radcliffe Infirmary

University Demonstrators

Vollum, R L., [Lanc.], MA *Br Col. & Oxon*,
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Jennings, Hon. Mrs. Margaret A., [L.M.H.], MA
DM
French, J E., [Exeter], MA DPhil DM
Watkins, J F., [Ch Ch], MB BChir *Camb*,
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Senior Research Officers

Sanders, A G., [Lanc], MB BS *Lond*, MA DPhil
Heatley, N G., [Lanc.], PhD *Camb*, MA
Camb & Oxon
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Pharmacology

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Ing, H. R., [New], MA DPhil, FRS
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Physiology, see above

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Radiology

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Surgery

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DSO, MD *Belf*, MBBCh BAO N U I,
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DPH, FRCP, FRCPI Lectr

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1962—Rev. Canon A. Richardson, [Exeter], MA
Liv. & *Oxon*, DD *Glas* & *Oxon*

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Clark, Sir George N., Hon. LLD *Aberd.*, Hon.
LittD *Utrecht*, Hon. DLitt *Durh. & Sheff.*,
Hull & Col., Hon. LittD *Dub.*, MA DLitt,
FBA
Hailsham, Rt. Hon. Lord, QC, MA
Bullard, J. L., BA
Morse, C. J., MA
Southern, R. W., MA, FRHistS, FBA

Readers and Lecturers

Payne, D. J., LL.B. *Lond.*, MA, *All Souls Reader*
in Engl. Law
Nicholas, J. K. B. M., MA, *All Souls Reader*
in Roman Law
Crombie, A. C., BSc *Melb.*, PhD *Camb.*, MA,
Lectr. in Hist. of Sci.

BALLIOL COLLEGE

Founded by John Balliol (father of John Balliol, King of Scotland) between 1263 and 1268

Students in residence (1960-61), 427. Telephone: Oxford 49601.

Master—Sir David L. Keir, Hon. LLD *Glas.*, *Dub.*, *New Br.*, *Qu.*, & *Belf.*, MA Hon. DCL

Fellows
Tylor, T. H., BCL MA, *War Memorial Fellow*,
Tutor in Jurisp., Estates Bursar
Bell, R. P., MA, FRS, *Jowett Fellow*, *Tutor in*
Nat. Sci.
Hill, J. E. C., MA, FRHistS, *Jowett Fellow*, *Tutor*
in Mod. Hist.

Meiggs, R., MA, FBA, *Duncan Campbell Mac-*
gregor Fellow, Jowett Fellow, Tutor in Anc.
Hist., Praefectus of Holywell Manor
Bryson, J. N., MA, *Vincent Massey Fellow*, *Tutor*
in Engl. Lang. & Lit., Librarian
Burrow, T., PhD *Camb.*, MA, *Boden Prof. of*
Sanskrit

- Waters, W. A., PhD ScD Camb., MA Camb. & Oxon., FRS, FRIC, *War Memorial Fellow, Bedford Lectr., Tutor in Nat. Sci.*
- Willis-Bund, Rev. F. L. M., MA, *Chaplain, Dean*
- Hunt, R. W., MA DPhil, FBA, *Sr. Res. Fellow*
- Balogh, T., DrRerPol Bud., MA, *Tutor in Econ*
- de Wet, J. S., BSc Cape T., PhD Prim., MA Camb. & Oxon., *Tutor in Maths.*
- Williams, E. T., CB, CBE, DSO, MA, *Professorial Fellow*
- Keen, H. H., MA, FCA, *Professorial Fellow*
- Dick, M. W., MA, *Craig-Sellar Fellow, Tutor in Philos. & Pol., Jowett Lectr. in Philos.*
- Hare, R. M., MA, *Tutor in Philos.*
- Streeten, P. P., MA *Aberd. & Oxon., Tutor in Econ*
- Kuhn, H. G., DPhil Gott., MA, FRS, *Tutor in Phys.*
- Williams, G. W., MA *Dub. & Oxon., Tutor in Classics, Jowett Lectr. in Classical Langs. & Lit., Sr. Tutor*
- Campbell, A., BA Birm., BLitt MA, FRHistS, *Sr. Res. Fellow*
- Prest, J. M., MA, A. L. Smith Memorial Fellow, *Tutor in Mod. Hist.*
- Allison, P. R., BSc ChM Leeds, MA DM, FRCS, *Nuffield Prof. of Surg.*
- Harris, D. R., BA LLN N.Z., BCL MA, *Tutor in Jurisp., Dean of Degrees*
- Ogilvie, R. M., MA, *Tutor in Classics*
- Brink, D. M., MA DPhil, *Tutor in Theoret. Phys.*
- Gwynne, M. D., MA DPhil, *Jr. Res. Fellow*
- Paton, W. D. M., JP, MA DM, FRS, *Prof. of Pharmacol.*
- Phizackerley, P. J. R., BSc BM MA, *Oliver Gatty Fellow, Tutor in Biol. Sci.*
- Lonsdale, R. H., MA, *Andrew Bradley Jr. Res. Fellow*
- Woods, L. C., MA DPhil DSc, *Tutor in Engin. Sci.*
- Gravett, K. A. H., PhD Lond., MA, *Fellow & Tutor in Maths.*
- Keen, M. H., BA, *Fellow & Tutor in Hist.*
- Montefiore, A. C. R. G., MA, *Fellow & Tutor in Philos.*
- Pratt, J. M., BA, *Jr. Res. Fellow*
- Griffin, J., Dyson Jr. Res. Fellow
- van Vleck, J. H., AB Wis., AM PhD Harv., Hon. ScD Wesleyan, Wis. & Grenoble, MA, *Super-numerary Fellow, George Eastman Visiting Prof.*
- Other Tutors and Lecturers
- Perman, R. C. D., MA, *Lectr. in Mod. Langs.*
- Andrews, H. K., MusD Dub., MA DMus, *Tutor in Music*
- Brunet, P. C. J., MA DPhil, *Tutor in Zool.*
- MacGregor, J. J., BSc Glas., MS Wis., BLitt MA, *Tutor in For.*
- McKerrow, W. S., MA DPhil, *Tutor in Geol.*
- Masefield, G. B., MA, *Tutor in Agric.*
- Webb, M. J., MA, *Tutor in Geog.*
- White, F., BA Camb., MA, *Tutor in Bot.*
- Argyle, J. M., MA, *Tutor in Psychol.*
- Prout, C. K., MA DPhil, *Tutor in Org. Chem.*
- Holland, D. G., MA, *Tutor in Econ.*
- Sanders, P. G. H., MA DPhil, *Tutor in Phys.*
- Foster, M. A., BA, *Tutor in Biochem.*
- Shapiro, D. M., BA BPhil, *Tutor in Pol.*

BRASENOSE COLLEGE

Founded in 1509 by William Smyth, Bishop of Lincoln, and Sir Richard Sutton, Kt.
Students in residence (1960-61), 351. Telephone . Oxford 48641.

Principal—Sir Noel F. Hall, AM Prim., MA

- Fellows
- Cohn, E. S., MA, *Tutor, Lectr. in Mod. Hist.*
- Collieu, E. G., BLitt MA, *Tutor, Lectr. in Mod. Hist.*
- Shackleton, R., MA, *Tutor, Lectr. in Mod. Langs., Librarian*
- Gordon, G., BSc MA DM, *Tutor, Lectr. in Physiol.*
- Nicholas, J. K. B. M., MA, *Vice-Principal, Tutor, Lectr. in Law*
- Maudsley, R. H., LLB Birm., BCL MA, *Sr. Tutor, Lectr. in Law*
- Styler, Rev. L. M., MA, *Chaplain, Tutor for Admissions*
- Kurtz, N., PhD Berl., MA, FRS, FIP, *Sr. Res. Fellow*
- Barltrop, J. A., BSc MA DPhil, *Tutor, Lectr. in Chem.*
- Lawson, F. H., DrJur Louvan & Fran., Hon. LL.D. Glas., DCL, FBA, *Prof. of Compar. Law*
- Syme, Sir Ronald, Hon. DLitt Durh. & N.Z., MA, FBA, *Camden Prof. of Anc. Hist.*
- Leyland, N. H., MA, *Tutor, Lectr. in Econ., Bursar*
- Bagguley, D. M. S., MA DPhil, *Tutor, Lectr. in Phys.*
- Ackrill, J. L., MA, *Tutor, Lectr. in Philos.*
- Unbegaun, E. O., DesL Paris, MA, *Prof. of Compar. Slavonic Philol.*
- Stockton, D. L., MA, *Tutor, Lectr. in Anc. Hist., Sr. Dean*
- Reynolds, L. D., MA Camb. & Oxon., *Tutor, Lectr. in Greek & Latin Lit., Jr. Dean*
- Lewis, J. T., PhD Belf., MA, *Tutor, Lectr. in Maths.*
- Woods, M. J., BPhil MA, *Lectr. in Philos.*
- Davies, J. W., LLB Birm., BCL MA, *Stallybrass Jr. Res. Fellow in Law*
- Holder, D. W., DSc Lond., MA, *Prof. of Engin. Sci.*
- Reed, T. J., BA, *Platnauer Jr. Res. Fellow in Mod. Langs.*

Supernumerary Fellows

Spalding, K J., MA

Grant, A D, MA

Lecturers

Wilson, S S, MA (*Engin.*)

Houston, J M, MA *Edin. & Oxon.*, BSc DPhil

(*Geog.*)

Pasley, J M S, MA, *Hulme Lectr. in German*

Miller, B D H, BLitt MA (*Engl. Philol.*)

Freeborn, R H., MA DPhil, *Hulme Lectr. in*

Russian

Butler, D. E., MA DPhil (*Pol.*)

Garton, G., MA DPhil (*Chem.*)

Glendinning, O N. V., MA *Camb. & Oxon.*

(*Spanish*)

Baker, Rev J A, BLitt MA (*Theol.*)

Toltey, B R., BA (*French*)

Edmonds, D T, BSc *Aberd.*, MA DPhil (*Phys.*)

CHRIST CHURCH

Projected by Cardinal Wolsey, and established by King Henry VIII in 1546.

Students in residence (1960-61), 481. *Telephone* . Oxford 42201

Dean—Very Rev C A Simpson, MA *KCNS & Oxon.*, Hon DD *KCNS*, STM ThD *General Theol. Sem. (N Y)*, Hon DCL *Bishop's*, DD

Canons

Cross, Rev F. L., BSc *Lond.*, Hon DD *Aberd.*,
Hon DTh *Bonn*, MA DPhil DD, *Sub-Dean*,
Centor Theologiae, *Lady Margaret Prof. of*

Div.

Demant, Rev V A, BSc *Durh.*, MA DLitt,
Regius Prof. of Moral & Pastoral Theol.

Witton-Davies, Ven C, MA

Chadwick, Rev. H, Hon DD *Glas.*, DD *Camb*

& *Oxon.*, MusB *Camb.*, MA, FBA, *Regius*

Prof. of Div.

Greenslade, Rev S L, Hon. DD *Edin.*, MA DD,

FBA, *Regius Prof. of Eccles. Hist.*

Students (equivalent to Fellows)

Harrod, Sir Roy, Hon LLD *Aberd.*, MA, FBA,

Tutor

Myres, J N L., Hon LLD *Tor.*, MA, FSA,

FRHistS

Collie, C H, BSc MA, *Tutor*, *Dr. Lee's Reader*

in Phys.

Roaf, D, MA DPhil, *Duke of Westminster Res.*

Student

Gray, E W., MBE, BA *Adel.*, MA, *Tutor*,

Librarian

Sutherland, C. H. V., MA DLitt, *Lectr.*

Maseall, Rev. E L., BSc *Lond.*, MA BD *Camb.*,

DD, *Tutor*

Watson, J. S., MA, FRHistS, *Tutor*, *Sr. Censor*

Hill, Lt-Col D V, MA, *Steward*

Blake, R N W, MA, *Tutor*

Stuart, C. H., MA, *Tutor*

Bueno de Mesquita, D. M., PhD *Camb.*, MA

Camb & Oxon., FRHistS, *Tutor*, *Secretary*

Stewart, J I M., MA, *Tutor*

Obolensky, Prince D, PhD *Camb.*, MA, *Lectr.*

Gray, F. A., MA, *Treasurer*

Mason, J F A., MA DPhil, *Tutor*

Gould, J P. A., MA *Camb & Oxon.*, *Tutor*

Davies, H., MA DPhil, *Tutor*

Pickering, Sir George W., Hon DSc *Durh.* &

Dartmouth, Hon MD *Ghent*, MA MD

Camb., DM, FRCP, FRS, *Regius Prof. of*

Med

Burn, E H, BCL MA, *Tutor*, *Jr. Censor*

Watson, S., MA DMus, FRCM, FRCO, *Tutor*,

Organist

Kent, P. W., BSc PhD *Birm.*, MA DPhil, FRIC,

Tutor, *Dr. Lee's Reader in Chem*

Wood, O P, MA, *Tutor*

Lewis, D M., PhD *Prin.*, MA, *Tutor*

Buckingham, A D, MSc *Syd.*, PhD *Camb.*, MA

Camb & Oxon., *Tutor*

Wilkinson, D H, PhD *Camb.*, MA *Camb &*

Oxon., FRS, *Prof. of Exper. Phys.*

Kraishemer, A. J., MA, *Tutor*

Scott, M F., BLitt MA, *Tutor*

McLaggan, M A., MA, *Tutor*

Matthews, P B. C., MB BChir *Camb.*, MA DM,

Tutor, *Dr. Lee's Reader in Anat.*

Grace, M A., MA DPhil, *Tutor*

Pears, D F, MA, *Tutor*

Luke, F D., MA DPhil, *Tutor*

Lloyd-Jones, P H. J., MA *Camb. & Oxon.*,

Regius Prof. of Greek

McHardy, Rev. W D, MA *Aberd.*, *Edin. & Oxon.*,

BD Hon. DD *Aberd.*, DPhil, *Regius Prof. of*

Hebrew

Lecturers

Baldick, R A. E., MA DPhil, FRSL

Barton, G, MA DPhil

Bill, E G. W., MA, *Archivist*

Bushell, P J, BSc *Aberd.*, MA DPhil

Glendinning, O N V, MA *Camb. & Oxon.*

Griffin, J P, DPhil

Gurdon, J B, MA DPhil

Harris, J R, MA DPhil

Knowles, J. R., BA

Lund, P G, MA

Lyons, L., BA

Pulzer, P G J, BSc *Lond.*, PhD *Camb.*, MA

Camb & Oxon.

Rea, J, BA *Belf.*, PhD *Lond.*

Reading, B., BA

Steer, B. F., MA

Winterbottom, M, MA

Zeldin, T., MA DPhil

CORPUS CHRISTI COLLEGE

Founded in 1517 by Richard Fox, Bishop of Winchester Students in residence (1960-61), 197.
Telephone . Oxford 49431

President—W. F. R. Hardie, MA

Fellows

Elton, C. S., MA, FRS, *Sr. Res. Fellow*
Lepper, F. A., MA, *Tutor in Anc. Hist., Sr. Tutor*
Brock, M. G., MA, *Tutor in Mod. Hist., Dean*
Mauldon, J. G., MC, MA, *Tutor in Maths*
Aston, T. H., MA, *Tutor in Mod. Hist., Librarian*
Nisbet, R. G. M., MA *Glas & Oxon*, *Tutor in Classics, Vice-President, Asst. Dean*
Mynors, R. A. B., Hon DLitt *Durh*, MA *Camb. & Oxon*, FBA, *Corpus Christi Prof of Latin*
Thomson, J. F., DFC, BA *Lond*, MA *Camb & Oxon*, *Tutor in Philos.*
Jameson, Brig. G. O. M., CBE, MA, *Bursar*
Owen, G. E. L., BPhil MA
Patersen, C. H., MA
Hill, R. W., MA DPhil, *Tutor in Phys*

Urmson, J. O., MC, MA, *Tutor in Philos.*
Baker, Rev J. A., BLitt MA, *Chaplain, Lectr in Div*
Gasser, R. P. H., MA, *Tutor in Chem*
Kneale, W. C., Hon LLD *Aberd*, MA, FBA, *White's Prof of Moral Philos*
Jamison, D. G., BM MA, *Sr Res Fellow, Lectr in Physiol.*
Toomer, G. J., BA, *Prælector in Classics*

Other Lecturers

Taylor, T. H., BCL MA (*Jurisp*)
Bateson, F. N. W., BLitt MA (*Engl. Lit*)
Parker, R. A. C., MA DPhil (*Mod. Hist.*)
Seton, F., MA DPhil (*Econ*)
Pernan, R. C. D., MA (*Mod Langs*)
Evans, D. A. H., MA (*Engl Lang*)

EXETER COLLEGE

Founded in 1314 by Walter de Stapeldon, Bishop of Exeter.
Students in residence (1960-61), 295 Telephone Oxford 44681

Rector—K. C. Wheare, CMG, Hon. LHD Col, MA *Melb & Oxon*, DLitt, FBA

Fellows

Balsdon, J. P. V. D., MA, *Keeper of the Archives, Lectr in Anc. Hist*
Hinshelwood, Sir Cyril N., OM, Hon. ScD *Dub. & Camb*, Hon. DSc *Lond., Leeds, Sheff., Brist. & Hull*, Hon. LLD *Wales*, MA DSc
Hon DCL, FRIC, FRS, *Dr Lee's Prof. of Chem*
Barr, W. G., MA, *Sr Tutor, Lectr in Mod Hist*
Kemp, Rev Canon E. W., MA DD, FRHistS, *Chaplain, Librarian, Tutor, Lectr. in Theol. & Mediev Hist.*
Trypanis, C. A., DPhil *Athens*, MA, *Bywater & Sotheby Prof. of Byzantine & Mod. Greek Lang. & Lit*
Barrow, R. F., BSc *Lond*, MA DPhil, *Tutor, Lectr in Chem*
Hall, G. D. G., MA, *Tutor, Lectr in Law*
Mervyn Jones, D., MA *Camb & Oxon*, *Dean of Degrees*
Hunt, N. C., PhD *Camb*, MA *Camb & Oxon*, *Domestic Bursar, Tutor & Lectr. in Pol*
Russell, P. E. L. R., MA, *King Alfonso XIII Prof of Spanish Studies*
Dee, B. D., MA, *Estates Bursar*
Ratt, A. W., MA DPhil, *Tutor, Lectr in French Lit*

Coxon, R. V., MD *Lond*, MA DPhil, FRCS, *MRCP, Professorial Fellow, Lectr in Physiol*
Hatton, J., MA DPhil, *Lectr in Phys*
Wordsworth, J. F., MA, *Lectr in Engl.*
Kirwan, C. A., MA, *Sub-Rector, Tutor & Lectr. in Philos*
Whitehouse, M. W., BSc MA DPhil, *Staines Med Res. Fellow*
Roaf, D. J., BA, *Lectr in Maths*
Adkins, A. W. H., MA DPhil, *Lectr in Classical Langs & Lit.*

Other Tutors and Lecturers

Brockington, Rev. L. H., BD *Lond*, MA (*Hebrew*)
Beckinsale, R. P., MA *Lond. & Oxon*, DPhil, FRMetS (*Geog*)
Crawford, G. N. C., MB BS *Lond*, MA (*Anat.*)
Alton, R. E., MC, MA (*Engl. Lang*)
Bartrop, J. A., BSc MA DPhil (*Org Chem.*)
Glazebrook, P. R., BA (*Law*), *Jr Dean*
Dyer, D. G., MA (*German*)
Elits, W. A., MA (*Econ.*)
Bevan, E. A., MA (*Bot*)
Watson, S., MA DMus (*Mus*)
Harris, R., MA DPhil (*French Philol*)
Page, E., MA (*Philol*)
Crossman, E. R. F. W., MA *Camb & Oxon* (*Psychol.*)

HERTFORD COLLEGE

First founded in 1740 in succession to Hertford Hall (founded about 1282), and refounded in 1874. Students in residence (1960-61), 176. Telephone Oxford 41434.

Principal—W L Ferrar, MA DSc

Fellows
 Markham, F. M. H., MA, *Lectr in Mod. Hist.*,
Dean
 Armstrong, C. A. J., MA, FRHistS, *Lectr in*
Mod Hist, Librarian
 Clark, Sir Wilfrid E. Le G., DSc Lond., Hon.
 DSc Durh., Hon MD Melb., Hon LLD
Malaya, MA, FRAI, FRCS, FRs, Dr Lee's
Prof of Anat
 Ross, C. R., MA, *Lectr in Mod. Studies, Drapers'*
Company Fellow, Bursar
 Gilbert, E. W., BLitt MA, *Prof. of Geog*
 Vaughan-Williams, E. M., MA DSc DM, *Lectr*
in Physiol., Dean of Degrees
 Bentley, D. J., BCL MA, *Lectr. in Jurisp., Sr*
Tutor
 Malpas, R. M. P., BPhil MA, *Lectr in Philos.*,
Secretary for Admissions

Tanner, N. W., MA, *Lectr in Phys*
 Murray, J. D., BSc PhD St And., MA, *Lectr in*
Maths.

Chaplain
 Chantry, Rev R. M., MA

Other Lecturers
 Houston, J. M., MA Edin & Oxon., BSc DPhil
(Geog)
 Brewer, F. M., MBE, PhD Corn., BSc MA,
 FRIC (Nat Sci.)
 Fowler, G. T., MA (Anc Hist.)
 Hubbard, Margaret E., MA (Classics)
 Burden, D. H., MA (Engl.)
 Ganz, P. F., PhD Lond., MA Lond & Oxon
(Mod Langs)

JESUS COLLEGE

Founded in 1571 by Queen Elizabeth. Students in residence (1960-61), 285.
 Telephone Oxford 41818

Principal—J. T. Christie, MA

Fellows
 Hurst, C., MA DPhil, *Tutor in Phys*
 Griffith, J. G., MA, *Sr Tutor, Tutor in Classics*
 Baker, J. N. L., BLitt MA, *Bursar, Emer Fellow*
 Woodward, L. A., PhD Leis., BSc MA, *Vice-*
Principal, Tutor in Chem.
 Thompson, E. C., MA, *Tutor in Maths.*
 Foster, I. L., MA Wales & Oxon., FSA, *Jesus*
Prof of Celtic
 Whiteley, Rev D. E. H., MA, *Chaplain, Dean,*
Tutor in Theol
 Young, G. T., BSc Birm., PhD Brist., MA,
 FRIC, *Tutor in Chem*
 Howarth, W. D., MA, *Tutor for Admissions,*
Tutor in Mod Langs.
 Varley, G. C., PhD Camb, MA Camb & Oxon.,
Hope Prof of Zool (Entomol)
 Hale, J. R., MA, *Tutor in Mod Hist.*
 Dobson, E. J., BA Syd., MA DPhil, *Reader in*
Engl Lang
 Rees, D. A., MA DPhil, *Librarian, Tutor in Philos.*

Rogerson, A., MA, *Tutor in Law*
 Paget, E., MA, *Tutor in Geog*
 Walsh, J. D., PhD Camb, MA Camb. & Oxon.,
Tutor in Mod Hist
 Foster, C. D., MA, *Sr Res. Fellow in Econ &*
Org of Transport
 Houghton, J. T., MA DPhil, FRMetS, Jr. *Dean,*
Tutor in Phys
 Barlow, D., BLitt MA, *Tutor in Mod. Langs.*
 Burrow, J. A., MA, *Tutor in Engl.*
 Parry, J. H., MBE, MA PhD Camb., *Super-*
numerary Fellow

Lecturers
 Alton, R. E., MC, MA (Engl.)
 Baragwanath, L. E., BA Melb., BPhil MA (Econ.)
 Williams, P. M., MA (Pol.)
 Rushworth, G., BM MA (Physiol.)
 Wallace-Hadrill, J. M., MA Manc. & Oxon. (Mod
 Hist)
 Bradley, C. J., BA Camb. & Oxon. (Maths.)

KEBLE COLLEGE

Founded in 1868 as a memorial to the late Rev. John Keble, sometime prof. of poetry in the univ., and incorporated in 1870. Students in residence (1960-61), 363. Telephone Oxford 59201.

Warden—Rev. A. M. Farrer, MA DD

Fellows
 Parkes, G. D., BSc MA DPhil, FRIC, *Sub-*
Warden, Tutor in Nat. Sci., Sr Tutor
 Davidge, C. V., BCL MA, *Tutor in Jurisp.,*
Bursar

Hawkes, C. F. C., MA, FRAI, FBA, FSA, *Prof.*
of European Archaeol
 Mitchell, B. G., MA, *Tutor in Philos*
 Stead, Rev G. C., MA Camb. & Oxon., *Tutor in*
Theol., Chaplain

Price, F. D., BLitt MA, FSA, FRHistS, *Tutor in Mod. Hist., Dean*
 Barrett, W. S., MA, *Tutor in Classics, Librarian*
 Potts, D. C., MA, *Tutor in Mod. Langs*
 Stone, E., MA DPhil, *Tutor in Mediaev. Hist*
 Smith, C. G., MA, *Tutor in Geog*
 Shaw, D. F., MA DPhil, *Tutor in Phys*
 Campbell, A. E., MA, *Tutor in Mod. Hist.*
 Carey, J., MA DPhil, *Tutor in Engl. Lang. & Lit., Jr. Dean*

Research Fellow
 von Engel, A. H., MA DSc
 Lecturers
 Cuff, P. J., MA DPhil (*Anc. Hist.*)
 Franklin, R. E., BSc PhD Lond., MA (*Engin.*)
 Phillips, E. G., MA DPhil (*Maths.*)
 Kitzinger, U., BLitt MA (*Pol.*)
 Eltis, W. A., MA (*Econ.*)
 Green, R. F., MA DPhil (*German*)
 Harris, R., MA DPhil (*French Philol.*)
 Parkes, M. B., BLitt MA (*Engl. Lang.*)

LINCOLN COLLEGE

Founded in 1427 by Richard Fleming, Bishop of Lincoln. Students in residence (1960-61), 316.
 Telephone Oxford 42580.

Rector—W. F. Oakeshott, Hon. LLD *St. And.*, MA, FSA

Fellows
 Cox, H. H., MA, *Sub-Rector, Tutor in Philos., Dean*
 Florey, Sir Howard W., MA *Camb. & Oxon.*,
 *PhD *Camb.*, MD *Adel.*, Hon. LLD *Edin.*,
 Hon. DSc *Sheff.*, *Birm.*, *Nott.*, *Tor.* &
A.N.U., Hon. DM *Louvain*, BSc, FRSc,
 FRCP, *Professional Fellow*
 Richards, R. E., MA DPhil, FRS, *Tutor in Nat. Sci.*
 Henderson, P. D., MA, *Tutor in Econ.*
 Robson, W. W., MA, *Jr. Librarian, Tutor in Engl. Lang. & Lit.*
 Green, Rev. V. H. H., MA DD *Camb. & Oxon.*,
 FRHistS, *Chaplain, Sr. Librarian & Archivist, Sr. Tutor, Tutor in Mod. Hist.*
 Abraham, E. P., MA DPhil, FRS, *Professorial Fellow*
 Laws, G. C., MA, *Bursar*
 Simpson, A. W. B., MA, *Tutor in Jurisp.*
 Sullivan, J. P., MA *Camb. & Oxon.*, *Tutor in Classics*
 Owen, J. B., BSc *N.Z.*, MA *N.Z. & Oxon.*, DPhil,
Tutor in Mod. Hist.
 Owen, J., MA DPhil, *Tutor in Phys.*
 Whitton, D. F., BLitt MA, *Dean of Degrees, Tutor in Mod. Langs.*
 Robertson, C. M., MA *Camb. & Oxon.*, *Professorial Fellow*
 Supernumerary Fellows
 Wellesz, E. J., CBE, MA Hon. DMus, FBA

Ashmole, B., CBE, MC, BLitt MA, FBA

Nuffield (Penicillin) Research Fellows

Heatley, N. G., PhD *Camb.*, MA *Camb. & Oxon.*
 Sanders, A. G., MB BS Lond., MA DPhil

Research Fellow

White, J. W., MSc *Syd.*

Other Lecturers

Goff, R. L. A., MA (*Jurisp.*)
 Oppenheimer, Sir Michael B. G., Bt, BLitt MA (*Pol.*)
 Gray, D., MA *N.Z. & Oxon.* (*Engl.*)
 Thomson, J. F., DFC, BA Lond., MA *Camb. & Oxon.* (*Philos.*)
 Leach, E. H., BSc MA (*Physiol.*)
 Plamenatz, J. P., MA (*Pol.*)
 Martin, A. F., MA (*Geog.*)
 Burden, D. H., MA (*Engl.*)
 McKay, G. W., MA (*German*)
 Baker, Rev. J. A., BLitt MA (*Theol.*)
 Beckett, P. H. T., MA DPhil (*Agric.*)
 Fowler, G. T., MA (*Anc. Hist.*)
 Lewis, K. R., MA (*Bot.*)
 Ford, E. B., MA DSc (*Biol.*)
 McMahon, J. F., BA LLB *Camb.*, LL.M. *Harv.*,
 BLitt (*Law*)
 Smart, P., BA (*Engin.*)

MAGDALEN COLLEGE

Founded in 1458 by William of Waynflete, successively Headmaster of Winchester and Eton Colleges, Provost of Eton, and Bishop of Winchester, and sometime Lord High Chancellor of England. Students in residence (1960-61), 434. Telephone: Oxford 47181

President—T. S. R. Boase, MC, Hon. LLD *St. And. & Melb.*,
 Hon. DLitt *Durh. & R'dg.*, MA Hon. DCL, FBA

Fellows
 Driver, G. R., CBE, MC, Hon. DD *Aberd. & Manc.*, Hon. DLitt *Durh.*, MA, FBA,
Founder's Chaplain
 Onions, C. T., CBE, Hon. LittD *Leeds.*, Hon. LLD *Birm.*, MA Lond. & Oxon., Hon. DLitt, FBA, Hon. FRSL

McFarlane, K. B., MA, FSA, FRHistS, *Tutor in Mod. Hist.*
 Sutton, L. E., MA DPhil, FRS, *Lectr. in Chem.*
 Stevens, C. E., BLitt MA, *Tutor in Anc. Hist.*
 Griffiths, J. H. E., OBE, MA DPhil, *Lectr. in Phys.*
 Hardie, C. G., MA, *Tutor in Classics*

- Morris, J. H. C., MA DCL, *Lectr. in Law*
 Witts, L. J., CBE, MD *Manc.*, Hon. Sec. *Dub.*
 Hon. MD *Brist.*, MA DM, FRCP, Nuffield
Prof. of Clin. Med.
 Sinclair, H. M., BSc MA DM, MRCP, *Lectr. in*
Physiol. & Biochem.
 Taylor, A. J. P., MA, FBA, *Tutor in Mod. Hist.*
 Cooke, C. A., LLD *Manc.*, MA, *Estates Bureau*
 Ryle, G., MA, *Waynflete Prof. of Metaphys.*
 Gill, A., CBE, MA *Manc.*, & Oxon., *Tutor in Mod.*
Langs., *Vice-President*
 Ker, N. R., BLitt MA, FBA, *Librarian*
 Worswick, G. D. N., MA, *Tutor in Econ.*
 Kendall, D. G., MA, *Lectr. in Maths.*
 Bennett, J. A. W., MA N.Z. & Oxon., DPhil,
Lectr. in Engl. Lang. & Lit.
 Lloyd, B. B., MA, *Lectr. in Physiol.*
 Adams, Rev. A. W., MA *Sheff. & Oxon.*, BD,
Dean of Divinity, Chaplain
 Cross, A. R. N., MA DCL, *Lectr. in Law*
 Stoye, J. W., MA DPhil, *Tutor in Mod. Hist.*
 Leyser, K. J., MA, *Tutor in Mod. Hist.*
 Tite, K., MA, *Tutor in Pol.*
 Warnock, G. J., MA, *Tutor in Philos.*
 Darlington, C. D., PhD *Lond.*, DSc *Lond. & Oxon.*,
 MA, FRS, *Sherardian Prof. of Bot.*
 Tietzel, G. H., BCL MA, *Tutor in Law, Clerk to*
the Coll.
 Jones, E. R. H., DSc *Manc.*, PhD *Wales*, MA,
 FRS, FRIC, *Waynflete Prof. of Chem.*
 Jones, E. L., MA, *Tutor in Engl. Lang. & Lit.*,
Sr. Dean of Arts
 Judd, B. R., MA DPhil
 Oldfield, R. C., MA *Camb. & Oxon.*, FBPSS, *Prof.*
of Psychol.
 Rose, B. W. G., MusB *Camb.*, MA *Camb. & Oxon.*,
 DMus, FRCo, *Organist*
 Grayson, C., MA, *Serena Prof. of Italian Studies*
 Gardiner, P. L., MA, *Tutor in Philos.*
 Pasley, J. M. S., MA, *Lectr. in German*, Jr. *Dean*
of Arts
 Kacser, C., MA DPhil
 ter Haar, D., DrSc *Ley.*, MA *St. And. & Oxon.*,
 DSc, *Lectr. in Phys.*
 Hamilton, R. W., MA, FBA
 Stamper, J. G., MA DPhil
 Muntz, W. R. A., BA
 Brown, Sir G. Lendor, CBE, MSc MB ChB
Manc., Hon. LLD *St. And.*, DULSage, MA,
 FRCP, FRS, *Waynflete Prof. of Physiol.*
 Venanzi, L. M., DiplChem *Kiel.*, DrChem
Trieste, MA DPhil, *Lectr. in Chem.*
 Higman, G., MA DPhil, FRS, *Waynflete Prof. of*
Pure Maths.
 Littler, J. S., BSc MA DPhil
 France, P., BA
 McMahon, C. W., MA, *Tutor in Econ.*, Sr. *Tutor*
 King, A. S., BA
 Lines, M. E., BA
 Lecturers
 Pulzer, F. G. J., BSc (Econ) *Lond.*, PhD *Camb.*,
 MA (Pol.)
 Sutherland, N. S., MA DPhil (*Psychol.*)
 Acheson, R. M., BSc MA DPhil (*Org. Chem.*)
 Clowes, F. A. L., MA DPhil (*Bot.*)
 Bialokoz, J. E., MSc *Burm.*, PhD *Lond.*, MA
 (*Engn.*)
 Crawford, G. N. C., MA (*Anat.*)
 Harris, R., MA DPhil (*French Philol.*)
 Morgan, D. A. L., BA (*Mod. Hist.*)
 Welbourne, M., BA (*Philos.*)

MERTON COLLEGE

Founded in 1264 by Walter de Merton, sometime Chancellor of England, and afterwards Bishop
 of Rochester. Students in residence (1960-61), 268. Telephone: Oxford 49651.

Warden—G. R. G. Mure, MC, Hon. LLD *St. And.*, MA

- Fellows
 Levens, R. G. C., MA, *Tutor in Class.*, Sec. to
the Harmsworth Trust, Dean
 Williams, Rev. C. S. C., MA, *Chaplain, Tutor in*
Theol., *Lectr. in Div.*, Sr. *Tutor*
 Harrison, A. R. W., CBE, MA, *Tutor in Anc. Hist.*
 Cooke, A. M., MA DM, FRCP
 Dyson, H. V. D., BLitt MA, *Tutor in Engl. Lit.*
 Hardy, Sir Alister C., MA DSc, FRS, *Prof. of*
Zool. Field Studies
 Phillips, C. S. G., MA, *Tutor in Chem.*
 Jewkes, J., CBE, MCom *Manc.*, MA, *Prof. of*
Econ. Organization
 Highfield, J. R. L., MA DPhil, *Tutor in Mod.*
Hist., *Archivist, Librarian*
 Watson, P. D., MA DPhil, *Tutor in Maths.*,
Investments Bureau, Sub-Warden
 Parsons, D. S., MA DM, *Tutor in Physiol.*
 Wallace-Hadrill, J. M., MA *Manc. & Oxon.*, Sr.
Res. Fellow
 Roberts, J. M., MA DPhil, *Tutor in Mod. Hist.*
 Timbergen, N., DPhil *Ley.*, MA
 Davis, R. H. C., MA, FSA, FRHistS, *Tutor in*
Mod. Hist., *Admissions Tutor*
 Barton, J. L., BCL MA, *Tutor in Law*
 Norman, R. O. C., BSc MA DPhil, *Tutor in*
Chem., *Principal of Postmasters*
 Baker, J. M., MA DPhil, *Tutor in Phys.*
 Black, J., MA, *Tutor in Econ.*
 Lucas, J. R., MA, *Tutor in Philos.*
 Coghill, N. H. K. A., MA, FRSL, *Merton Prof.*
of Engl. Lit.
 Dick, D. A. T., MB ChB *Glas.*, MA DPhil, Jr.
Res. Fellow
 Davis, N., MBE, MA N.Z. & Oxon., *Merton Prof.*
of Engl. Lang. & Lit.
 Green, M., BA, Jr. *Res. Fellow*
 Thomas, W. E. S., BA, Jr. *Res. Fellow*
 Campbell, B. G., MA
 Pringle, J. W. S., MBE, ScD *Camb.*, MA *Camb.*
 & Oxon., FRS, *Lenacre Prof. of Zool.*
 Radda, G. K., BA, Jr. *Res. Fellow*

Eastham, M S P, BA, *Jr. Res Fellow*
 Other Lecturers
 Peiczynski, Z A., MA *St And. & Oxon*, DPhil
 (Pol.)
 Paget, E., MA (Geog.)
 Potts, D. C., MA (French)

Wilson, N. G., BA (Classics)
 Witt, D. C., MA (Engin.)
 Sutherland, N S., MA DPhil (Psychol.)
 Nash, G F., BA (Nuclear Phys.)
 MacIntosh, J J (Philos.)
 Rugg, A G., BA (Engl Lang)

NEW COLLEGE

Founded in 1379 by William of Wykeham, Bishop of Winchester and sometime Lord High Chancellor of England Students in residence (1960-61), 421. Telephone Oxford 48451

Warden—Sir William G Hayter, KCMG, MA

Fellows

Henderson, H L., OBE, MA, *Emer Fellow*
 Legg, L G W, MA, *Emer Fellow*
 Creed, R. S., TD, DM, *Emer Fellow*
 Cox, Sir Christopher W M., KCMG, MA
 Yorke, E C., MA *Camb & Oxon*, Tutor
 Titchmarsh, E. C., Hon DSc *Sheff*, MA, FRS,
Savilian Prof of Geom
 Plasket, H H., BA *Tor*, MA, FRS, *Emer Fellow*
 Price, H. H., Hon LLD *St And.*, Hon. DLitt
Dub., BSc MA, FBA, *Emer Fellow*
 Cecil, Lord David, CH, Hon LittD *Leeds*, Hon.
 DLitt *Lond.*, Hon. LLD *St And. & Llv*, MA,
 FRSL, *Goldsmiths' Prof of Engl Lit.*
 Staveley, L A. K., MA DSc, Tutor
 Kononov, S., BLitt MA
 Bell, H. E., MA *Camb & Oxon.*, FSA, Tutor,
Librarian
 Cooke, A H., MBE, MA DPhil, Tutor
 Butterworth, J B., MA, *Bursar, Precentor*
 Andrewes, A., MBE, MA, FBA, *Wykeham Prof.*
of Anc Hist
 Buxton, E J M., MA, *Sr Res. Fellow & Tutor*
 Nicholas, H. G., MA
 Carr, A. R. M., MA, Tutor, Tutor for Admissions
 Davies, K G., MA *Camb & Oxon*, Tutor, Sub-
 Warden
 Thomas, J M., MA DPhil, Tutor
 de Ste Croix, G E M., BA *Lond.*, MA, Tutor
 Bayley, J O., MA, Tutor
 Quinton, A M., MA, Tutor, Secretary to Tutor
 Cttee
 Lamb, W E., BS PhD *Calif*, Hon DSc *Penn.*,
 MA, FAPS, FIP, *Wykeham Prof of Phys*
 Milson, S. F. C., MA *Camb. & Oxon.*, Tutor,
 Dean
 Sandford, Sir Folkott H., KBE, CMG, MA
 Ayer, A J., MA, FBA, *Wykeham Prof of Logic*
 Cowan, J., MA *Camb. & Oxon.*, Tutor, Dean of
 Arts

Bennett, Rev G. V., PhD *Camb.*, MA *Camb & Oxon*, DPhil, Tutor, Dean of Div
 Lumsden, D J., MusB PhD *Camb*, MA *Camb. & Oxon*, DPhil
 Dickens, P G., MA DPhil, *Jr Res Fellow*,
Domestic Bursar
 Blackwell, D E., PhD *Camb.*, MA *Camb. & Oxon*, *Savilian Prof of Astron.*
 Wiggins, D R. P., MA
 Opie, R G., MA *Adel & Oxon*, BPhil
 Widdicombe, J G., BM MA DPhil
 Ingleton, A W., BSc PhD *Lond*, MA

Other Lecturers

Martin, A F., MA
 Pusey, H K., MA
 Bailey, A S., BSc MA DPhil
 Lucas, R L., PhD *Camb*, MA
 Tolkien, C R., MA
 Pring-Mill, R D F., MA
 Joll, J B., MA
 Fennell, J. L. I., PhD *Camb*, MA *Camb. & Oxon.*
 Davies, J. D., LLB *Wales*, BCL MA
 Marshall, G., PhD *Glas.*, MA *Mane & Oxon*
 Wolf, W P., MA DPhil
 Griffith, T. G., MA *Dub. & Oxon*, BLitt
 Wise, B., MA
 Jenkins, Rev. D. E., MA
 Brown, G. M., MA DPhil
 Warburg, E F., PhD *Camb*, MA
 Treisman, M., MA
 Bowersock, G. W., BA
 Payne, D J., LLB *Lond.*, MA
 Braington, R. W P., BA
 Bentley, D. J., MA
 Hunnisett, R. F., MA DPhil
 Harris, R., MA DPhil
 Glendinning, O N V., MA *Camb & Oxon.*
 Dummert, M A E., MA

ORIEL COLLEGE

Founded in 1326 by King Edward II Students in residence (1960-61), 268
 Telephone Oxford 41651

Provost—K C. Turpin, BLitt MA

Fellows

Hargreaves, E L., PhD *Lond*, MA, Tutor, Lectr
 in Econ.
 Burton, R. W. B., MA, Tutor, Lectr. in Classics

Gough, J W., MA, Tutor, Lectr. in Mod. Hist.,
 Librarian
 Pantun, W A., MA, FBA, FRHistS, Tutor, Lectr
 in Mod. Hist.

Crow, A. D., BLitt MA, *Sr Tutor, Lectr. in French, Vice-Provost*
 Moir, J. C., CBE, MD *Edn*, Hon. LLD *Qu*, MA DM, FRCSed, FRCOG, *Nuffield Prof of Obstet & Gynaecol*
 Parker, Sir Karl T., CBE, PhD *Zür*, MA, FBA, *Professorial Fellow*
 Seton-Watson, C. I. W., MC, MA, *Tutor, Lectr. in Pol.*
 Robinson, R., PhD *Corn*, BLitt MA, *Tutor, Lectr. in Philos*
 Weddell, A. G. M., MD DSc *Lond*, MA, *Tutor, Lectr. in Physiol*
 Porter, Rev. J. R., MA, *Tutor, Lectr. in Theol, Chaplain*
 Lambbrick, H. T., CIE, MA, *Res Fellow*
 Brunt, P. A., MA, *Tutor, Lectr. in Anc. Hist., Dean*
 Ramsey, Rev. Canon I. T., MA *Camb & Oxon*, *Nolith Prof. of Philos of Christian Relig.*
 Sparks, Rev. H. F. D., MA DD, FBA, *Oral Prof. of Interpretation of Holy Scripture*

Brown, B. R., MA DPhil, *Tutor, Lectr. in Chem., Sub-Dean*
 Bagnall-Wild, Brigadier R. E., CBE, MA, *Treasurer*
 Sanders, J. H., BSc *Lond.*, MA DPhil, *Tutor & Lectr. in Phys*
 Trevor-Roper, H. R., MA, *Regius Prof of Mod Hist*
 Watson, W. A. J., MA DPhil, *Benn Law Fellow & Lectr. in Jurisp.*
 Other Lecturers
 Beckett, P. H. T., MA DPhil (*Agric*)
 Pacht, O. E., PhD *Hedel*, MA, FBA (*Hist. of Art*)
 Quayle, J. R., MA (*Biochem*)
 Lambert, R. St. J., PhD *Camb.*, MA *Camb. & Oxon*, FGS (*Geol.*)
 Sutherland, N. S., MA DPhil (*Prychol*)
 Martin, A. F., MA (*Geog.*)
 Walsh, D., MA DPhil (*Engn Sci*)
 Luke, F. D., MA DPhil (*German*)
 Miller, B. D. H., BLitt MA (*Engl Lang*)

PEMBROKE COLLEGE

Founded in 1624 by King James I. Students in residence (1960-61), 290
 Telephone: Oxford 42271.

Master—R. B. McCallum, AM *Prin*, MA

Fellows
 Salt, L. E., MA, *Emer Fellow*
 Macnabb, D. G. C., MA, *Sr Tutor, Lectr. in Philos.*
 Macintosh, Sir Robert R., MA DM, FRCSed, FFARCS, *Nuffield Prof. of Anaesthetics*
 Wrenn, C. L., MA, *Rawlinson & Bosworth Prof of Anglo-Saxon*
 Houston, R. F. V., BA LLB *Dub*, MA, *Vice-gerent, Tutor for Admissions, Lectr. in Jurisp.*
 Bredin, G. R. F., CBE, MA, *Bursar*
 Bond, G. W., BA *Dub*, MA, *Dean, Lectr. in Classes*
 Morris, Rev. C., MA, *Chaplain, Lectr. in Mod. Hist. & Theol.*
 Deighton, Rev. H. S., BLitt MA, *Supernumerary Fellow*
 O'Brien, J. R. P., BSc MA, *Lectr. in Nat. Sci.*
 Mackesy, P. G., MA, *Lectr. in Mod. Hist.*
 Browning, I. R., MA, *Librarian, Lectr. in Engl. Lit. & Lang.*
 Wilks, J., MA DPhil, *Lectr. in Phys. Sci.*
 Balduck, R. A. E., MA DPhil, FRSL, *Lectr. in Mod. Langs.*

Whiting, M. C., BSc PhD *Lond*, MA, *Lectr. in Chem.*
 Wilkinson, F., BSc *Sheff*, MA, *Albright & Wilson Res. Fellow in Chem.*
 Pelczynski, Z. A., MA *St. And & Oxon*, DPhil, *Dean & Lectr. in Pol.*
 Hazlewood, A. D., BPhil MA, *Lectr. in Econ.*
 Gray, D., MAN Z & *Oxon*, *Lectr. in Engl. Lang. & Lit.*
 Cuff, P. J., MA DPhil, *Lectr. in Anc. Hist.*
 Cowan, W. M., BSc *Rand*, BM MA DPhil, *Nuffield Res. Fellow in Med., Lectr. in Human Anat.*
 Lightfoot, E., MSc *Lond*, PhD *Leeds*, *Lectr. in Engn. Sci.*

Other Lecturers

Paget, E., MA (*Geog.*)
 Caine, C. A., MA DPhil (*Maths*)
 Hodgson, P. E., PhD *Lond.*, MA (*Theoret. Phys.*)
 Burnett, H. W., BA (*Law*)
 Rogers, J. M., BA BPhil (*Philos.*)
 Lamport, F. J., BA (*German*)
 Davies, C. S. L., BA (*Mod. Hist.*)

THE QUEEN'S COLLEGE

Founded in 1340 by Robert de Eglesfield, chaplain to Philippa of Hainault, wife of King Edward III. Students in residence (1960-61), 347 Telephone Oxford 484111.

Provost—J. W. Jones, LL.M. *Camb.*, MA

Fellows
 Carter, C. W., BM MA, *Tutor & Praelector in Physiol*
 Chilver, G. E. F., MA DPhil, *Sr Tutor & Praelector in Anc. Hist.*

Haslam-Jones, U. S., MA DPhil, *Tutor & Praelector in Maths*
 Prestwich, J. O., MA, FRHistS, *Tutor & Praelector in Mod. Hist., Librarian*

Linnett, J. W., MA DPhil, FRS, *Tutor Prælector in Chem., Sec. of Tutorial Cttee*
 Macdonald, I., MA Glas & Oxon, *Tutor, Prælector in French, Laming Resident Fellow*
 Harley, J. L., MA DPhil, *Prælector in Bot*
 Kilpatrick, Rev. G. D., BA Lond, MA DD, *Dean Ireland's Prof. of Exegesis of Holy Scripture*
 Honoré, A. M., BA S.A., BCL MA, *Prælector in Law*
 Bolton, J. D. P., MA, *Tutor & Prælector in Classics, Camerarius*
 Pelling, H. M., PhD Camb, MA Camb & Oxon, *Tutor & Prælector in Mod. Hist. & Pol., Asst. Dean*
 Calder, W. M., MA, *Tutor & Prælector in German, Laming Resident Fellow*
 Moffatt, J., MA DPhil, *Tutor & Prælector in Phys*
 Černý, J., PhD Prague, MA, FBA, *Prof. of Egyptol.*
 Temple, G. F. J., CBE, PhD DSc Lond, MA, FRS, FRAES, *Sedlesian Prof. of Nat. Philos.*
 McGuinness, B. F., BPhil MA, *Tutor & Prælector in Philos., Sec. of the Governing Body*
 Chapman, W. G., MA Aberd. & Oxon., *Tutor & Prælector in Spanish, Laming Resident Fellow, Sec. of the Laming Cttee*

Jenkins, Rev. D. E., MA, *Prælector in Theol., Chaplain, Dean of Degrees*
 Cohen, L. J., MA, *Tutor & Prælector in Philos.*
 Pariser, R. A. C., MA DPhil, *Tutor & Prælector in Mod. Hist.*
 Marshall, G., MA Manc & Oxon, PhD Glas, *Tutor & Prælector in Pol.*
 Kaye, J. M., BCL MA, *Tutor, Prælector in Law*
 Williams, A. A., OBE, MA Camb. & Oxon, *Bursar*
 Acheson, R. M., BSc MA DPhil, *Tutor, Prælector in Chem.*
 Dalton, H. J. M., MA, FRCO, *Organist, Lectr. in Music, Dean, Magister Puerorum*
 Stahl, E. L., MA Cape T. & Oxon, PhD Berne, *Taylor Prof. of German Lang. & Lit.*
 Rickman, G. E., MA, Jr. Res. Fellow
 Stamp, K. M., AM PhD Wis., MA, H. V. *Harmsworth Prof. of American Hist.*
 Rundle, B. B., MA N.Z., Jr. Res. Fellow
 Supernumerary Fellows
 Elton of Headington, Rt. Hon. Lord, MA
 House, H. W., DSO, MC, MA
 Wright, T. E., MA
 Farnoor of Frieth, Rt. Hon. Lord, MA
 Lecturer
 Foote, I. P., MA (Russian)

ST. EDMUND HALL

Anciently associated with the name of St. Edmund of Abingdon, Archbishop of Canterbury, and founded about 1278. Students in residence (1960-61), 339. Telephone: Oxford 43574

Principal—Rev. J. N. D. Kelly, Hon. DD Glas, MA Glas. & Oxon., DD

Fellows

Ramsay, G. D., MA DPhil, FRHistS, *Vice-Principal, Tutor in Mod. Hist.*
 Faragher, R., BLitt MA DPhil, *Tutor in French, Dean of Degrees*
 Gullick, C. F. W. R., BLitt MA, *Sr. Tutor, Tutor in Geog.*
 Midgley, Rev. E. G., MA BLitt, *Tutor in Engl., Dean*
 Yardley, D. C. M., LLB Birm., MA DPhil, *Tutor in Jurisp.*
 Alton, R. E., MC, MA, *Bursar, Lectr. in Engl. Lit. Series*
 G. W., MA DPhil, FAPS, *Tutor in Phys*
 Mitchell, R. B., MA Melb. & Oxon., DPhil, *Tutor in Engl. Lang.*
 Allen, G. R., MA, *Tutor in Soc. Studies*
 Cowdrey, Rev. H. E. J., MA, *Tutor in Mod. Hist., Chaplain*

Barnes, H. G., PhD Tubingen, MA, *Tutor in German*
 Hume-Rothery, W., OBE, PhD Lond, Hon. DSc Manc, MA DSc, FRS, *Isaac Wolfson Prof. of Metall.*
 Pugh, R. B., MA, *Supernumerary Fellow*
 Todd, J. D., MA DPhil, *Tutor in Engin.*
 Gosling, J. C. B., BPhil MA, *Tutor in Philos.*
 Rossotti, F. J. C., BSc MA DPhil, *Tutor in Chem.*

Lecturers

Pusey, H. K., MA (Zool.)
 Phillips, E. G., MA DPhil (Maths.)
 Dummett, M. A. E., MA (Philos.)
 Foote, I. P., MA (Russian)
 Pollock, N. C., BA Cape T., BLitt MA (Geog.)
 Jones, C. A., MA DPhil (Spanish)
 Scargill, D. I., MA (Geog.)
 Wilson, N. G., BA (Classics)
 Blewett, N., BA (Pol.)

ST. JOHN'S COLLEGE

Founded in 1555 by Sir Thomas White, alderman of the City of London. Students in residence (1960-61), 301. Telephone: Oxford 47671.

President—W. C. Costin, MC, OBE, Hon. LLD Br. Col., MA DLitt

Fellows

Mabbott, J. D., CMG, Hon. MABdin., BLitt MA, *Sr. Tutor, Lectr. in Philos.*
 Slade, E., MA, *Tutor, Lectr. in Law*

Thompson, H. W., CBE, PhD Berl., MA DSc, FRS, *Tutor, Lectr. in Chem.*
 Moore, W. G., DLitt Stras., MA, *Tutor, Lectr. in Mod. Langs.*

Roberts, C H, MA, FBA, *Professorial Fellow*
 Sherwin-White, A N, MA, FBA, Tutor, Lectr.
in Anc Hist.
 Grace, H P, MA, Lectr. in Philos
 Martin, A F., MA
 Blackman, G E, BA Camb, MA, FRS, *Sub-*
thipian Prof of Rural Econ
 Holmes, W, MA DPhil, Tutor, Lectr in Zool
 Colvin, H M, MA, FRHistS, Tutor, Lectr in
Mod Hist., Librarian
 Russell, D. A F M, MA, Tutor, Lectr in
Classes, Sr Dean of Arts
 Garrard, N A, MA, Bursar
 Richardson, G B, BSc Aberd, MA, Vice-
 President, Tutor, Lectr. in Econ
 Torrance, R W., BSc BM MA, Tutor, Lectr in
Physiol
 Beeson, A F L., MA DPhil, *Laudian Prof of*
Arabic
 Elliott, R J, MA DPhil, Tutor, Lectr in Phys
 Thomas, K V, MA, Lectr in Mod. Hist, Jr.
Dean of Arts

Laure, M. V., OBE, MA Camb. & Oxon., *Prof.*
of For.
 James, I. M., MA DPhil, Sr Res. Fellow, Lectr.
in Maths.
 Leishman, J. B, BLitt MA, Sr. Res. Fellow,
Lectr. in Engl Lit.
 Heaton, Rev Canon E W, MA Camb & Oxon,
Reader & Lectr. in Theol
 Hayes, W, DPhil, Lectr in Phys.
 Huist, M C., MA, Lectr in Mod Hist & Pol.
 Hodgkin, L H, BA, Jr Res Fellow
 Howell, R, BA, Jr Res Fellow
 Wade, H W R, LLD Camb, MA Camb &
 Oxon, DCL, Professor of Engl Law

Other Lecturers

Calder, W M, MA (*German*)
 Ward, A, MA (*Engl Lang*)
 Powell, T P. S., MA (*Anat*)
 Norman, R. O. C., BSc MA DPhil (*Org Chem*)

ST PETER'S COLLEGE

Established in 1928 as a memorial to the late F J. Chavasse, DD, formerly Bishop of Liverpool, admitted to the privileges of a 'new foundation' in 1947, and incorporated by royal charter in 1961
 Students in residence (1960-61), 243. Telephone Oxford 48436

Master—Rev J. P Thornton-Duesbery, MA

Fellows

Houghton, Rev. R E C, MA, Tutor in Engl Lit,
Librarian
 Smith, E H. F, MA, Vice-Master, Tutor in Mod
Hist
 Sutton, C W H, MA, Tutor in Philos, Dean of
Degrees
 Perman, R C D, MA, Tutor in Mod Langs,
Besse Lectr in French
 Vernède, R. V, MA, Bursar
 Caine, C. A, MA DPhil, Tutor in Maths
 Woodgate, G K, MA DPhil, *Mullard Fellow &*
Tutor in Phys
 McKay, G W, MA, Tutor in German

Watson, Rev. W L R., MA Dub., Camb. & Oxon,
Chaplain, Lectr in Theol.
 Peacocke, A. R., BSc MA DPhil, Tutor in Chem.
 Cooper, K E., MB BS MSc Lond, MA, Tutor in
Physiol

Lecturers

Burchfield, R W, MA (*Engl Lang*)
 Yardley, D C M, LLB Birm, MA DPhil (*Jurisp.*)
 Cowdrey, Rev. H. E. J, MA (*Mediev Hist*)
 Emery, F V, BLitt MA (*Geog*)
 Mervyn Jones, D., MA Camb & Oxon (*Classes*)
 Rose, B. W G., MusB Camb, MA Camb &
 Oxon, DMus, FRCo (*Music*)
 Corina, J G, MA (*Econ*)
 Nichols, D., MA DPhil (*Zool.*)

TRINITY COLLEGE

Founded in 1554-55 by Sir Thomas Pope Students in residence (1960-61), 240.
 Telephone . Oxford 41801

President—A L P Norrington, MA

Fellows

Lambert, J D., MA DSc, Tutor, Lectr in Nat
Sci
 MacLagan, M., MA, FSA, Lectr in Mod Hist,
Vice-President, Sr Tutor
 Phillips, C. G, BSc MA DM, MRCP, Tutor,
Lectr. in Physiol.
 Holladay, A J, MA, Tutor & Lectr. in Anc.
Hist.
 Fletcher, R A., DSc, MA DPhil, *Domestic Bursar*
 Woods, D D., PhD Camb, MA Camb & Oxon,
 FRS, *Professorial Fellow*
 Cooper, J P, MA, Lectr. in Mod. Hist., Librarian

Barnett, F. J., MA, Lectr in Mod Langs.
 Krebs, Sir Hans A, MD Hamburg, Hon. DSc
Chic, Sheff & Lond, Hon. MD Freib, Hon.
 LLD Glas, MA Camb. & Oxon, FRS, *Pro-*
fessorial Fellow
 Wright, J. F, MA, Lectr. in Econ., *Estates Bursar*
 Wind, E., DPhil Hamburg, MA, *Professorial*
Fellow
 Lemmon, E. J, MA, Lectr. in Philos.
 Reid, T. B W., LLD Dub, Lèsl Montpellier,
 MA Dub., Manc. & Oxon., *Professorial*
Fellow

Raven, D. S., BLitt MA, *Lectr. in Classics, Dean*
 Houlden, Rev J L., MA, *Chaplan, Lectr*
 Kelly, J M D., BLitt MA, *Lectr in Law*
 Hammersley, J M., MA DSc, *Res. Fellow, Lectr*
in Maths

Other Lecturers

Powell, T P S., MA (*Anat.*)
 Smith, C. G., MA (*Geog.*)
 Davies, W T., PhD Camb, MA Camb & Oxon.
 (*Phys.*)

Brunet, P. C. J., MA DPhil (*Zool.*)
 Glazebrook, P R., BA (*Law*)
 Tucker, R. G., MA DPhil (*Biochem.*)
 Burden, D H., MA (*Engl. Lang. & Lit.*)
 Millar, F. G. B., BA (*Anc. Hist.*)
 Rose, S., MA DPhil (*Pol.*)
 Wise, B., MA Camb. & Oxon. (*Engin.*)
 Bailey, A. S., BSc MA DPhil (*Inorg. Chem.*)
 Green, R. F., MA DPhil (*Mod Langs.*)
 Page, E., MA (*Philos.*)

UNIVERSITY COLLEGE

Connected by ancient tradition with the name of Alfred the Great, but first historically endowed in 1249 by William of Durham, said to have been Rector of Wearmouth and Archdeacon of Durham Students in residence (1960-61), 337. Telephone: Oxford 41661.

Master—A. L. Goodhart, Hon KBE, QC, LLD Camb., Hon LLD Edin, Belf, Yale, Calif., Col., Lond, N.Y. & Dal., DCL, FBA

Fellows

Bowen, E. J., MA DSc, FRS, *Prælector in Chem., Registrar*
 Wells, A. F., OBE, MA, *Prælector in Classics, Dean*
 Cox, A. D. M., MA, *Prælector in Mod Hist, Sr. Tutor*
 Paul, G. A., MA Camb & Oxon., *Prælector in Philos., Domestic Bursar*
 Cunningham, D J C., MB ChB Edin., MA, *Radcliffe Med Fellow*
 Bayley, P. C., MA, *Prælector in Engl Lit., Keeper of Coll Bldgs.*
 Strawson, P. F., MA, *Prælector in Philos., Dean of Degrees*
 Cawkwell, G. L., MA N.Z. & Oxon., *Prælector in Anc Hist, Librarian*
 Wager, L. R., ScD Camb., MA Camb & Oxon., FRS, FGS, *Prof. of Geol*
 Hart, H. L. A., MA, *Prof. of Jurisp*
 Parker, Rev T M., MA DD, FRHistS, *Chaplan, Prælector in Theol & Mod Hist.*
 Berman, R., MA Camb. & Oxon., DPhil, *Prælector in Phys.*

Guest, A. G., MA, *Prælector in Jurisp., Jr Dean, Camerarius*
 Shock, M., MA, *Weir Fellow, Prælector in Pol., Estates Bursar*
 Firth, A. E., MA, *Theodosius Fellow, Prælector in Mod. Hist., Secretary*
 Hawkes, D., MA DPhil, *Prof. of Chinese*
 Stout, D K., BA, *Mynors Fellows, Prælector in Econ.*
 Campbell, J. D. E., PhD Camb, MA Camb & Oxon., DPhil, *Weir Fellow, Prælector in Engin.*
 Hoffmann, L. H., BA BCL, *Stowell Civil Law Fellow*

Other Lecturers

Chalk, L., MA DPhil, FLS (*For.*)
 Ford, E. B., MA DSc, FRS (*Zool.*)
 Sandford, K. S., TD, MA DPhil DSc (*Geol.*)
 Beckinsale, R. P., MA Lond. & Oxon., DPhil, FRHistS (*Geog.*)
 Schenk, H. G. A. V., DrJur Prague, MA DPhil (*Mod Hist.*)
 Tolkien, C. R., MA (*Engl Lang.*)
 Tolley, B. R., BA (*Mod Langs.*)

WADHAM COLLEGE

Founded in 1612 by Nicholas Wadham and his wife Dorothy Students in residence (1960-61), 321 Telephone: Oxford 42564.

Warden—Sir C. Maurice Bowra, Hon. LittD Dub, Hon. LLD St And., Hon DLitt Hull, Hon. DUParis & Aix-Marseilles, MA DLitt, FBA

Fellows

Thompson, J. H. C., MA DPhil, *Tutor in Maths, Sub-Warden, Estates Bursar, Keeper of the Gardens*
 Westrup, Sir J. A., BMus MA Hon. DMus, FBA, *Heather Prof of Music*
 Bamborough, J. B., MA, *Tutor in English, Sr. Tutor*
 Crombie, I. M., MA, *Tutor in Philos., Librarian, Webster Fellow*
 Thompson, A. F., MA, *Tutor in Mod Hist*

Carter, P. B., BCL MA, *Tutor in Law*
 Stone, L., MA, *Lectr in Mod Hist, Keeper of the Archives*
 Forrest, W. G. G., MA, *Lectr in Anc. Hist, Dean of Degrees*
 Coulson, C. A., PhD Camb, DSc St And., MA Camb & Oxon., FRS, FIP, *Rouse Ball Prof. of Maths*
 Stinton, T. C. W., MA, *Lectr. in Classics, Dean*
 Williams, R. J. P., MA DPhil, *Lectr in Chem*
 Stewart, D. M., MA, *Lectr in Mod Langs*
 Blin-Stoyle, R. J., MA DPhil, *Lectr. in Phys*

Bleaney, B., MA DPhil, FRS, *Dr Lee's Prof of Exper Philos*
 McLeod, J. B., MA DPhil, *Lectr in Pure Maths.*
 Mims, W. B., MA DPhil, *Lectr in Phys*
 Other Lecturers
 Clegg, H. A., MA (Pol.)

Ward, A., MA (Engl. Lang)
 MacDougall, Sir Donald, CBE, MA (Econ.)
 Lewis, P. S., MA (Mod Hist.)
 Cullity, M. C., BCL (Law)
 Dyer, D. G., MA (German)
 Rogers, J. M., BA (Philos)

WORCESTER COLLEGE

Established in 1283 as a school for Benedictine monks under the name of Gloucester College, and incorporated under its present name in 1714 Students in residence (1960-61), 323. Telephone : Oxford 47251.

Provost—Rt Hon Sir Oliver S Franks, GCMG, KCB, CBE, Hon DLitt Hull, MA Hon DCL

Fellows

Bryan-Brown, A. N., MA, *Vice-Provost, Sr Tutor, Lectr in Classics*
 Brown, A. B., BCL, MA, *Estates Bursar, Sr Tutor, Lectr in Law*
 Mitchell, D., MA, *Tutor, Lectr in Philos*
 Truets, J. A., MD *Barcelona*, Hon DSc *Bogotd*, Hon MD *Buenos Aires & Rio de Janeiro*, MA Hon DSc, FRCS, Hon FRCSCan, FRFPS Glas, *Professorial Fellow*
 Pitt, H. G., MA, *Dean, Lectr in Mod. Hist*
 Dawes, G. S., BSc MA DM, *Supernumerary Fellow*
 Sayce, R. A., MA DPhil, *Librarian, Tutor, Lectr in Mod Langs*
 Walker, J. M., BSc MA DM, *Tutor & Lectr in Physiol*
 Wernham, R. B., MA, FRHistS, *Professorial Fellow*
 Sargent, J. R., MA, *Lectr. in Econ.*

Palmer, L. R., BA *Wales*, DrPhil *Vienna*, PhD *Camb*, MA, *Professorial Fellow*
 Price, F. V., BSc MA DPhil, *Lectr. in Nat Sci.*
 Campbell, J., MA, *Lectr in Mod Hist*
 Ricks, C. B., BLitt MA, *Lectr in Engl Lit.*
 Danby, C. J., BSc MA DPhil, *Lectr in Chem*
 Gill, E. W., MA DPhil, *Albright & Wilson Res. Fellow*
 Graham, Rev A. A. K., MA, *Chaplain, Dean of Degrees, Lectr in Theol*
 Reynolds, F. M. B., BCL MA, *Lectr. in Law*
 Hinton, J. M., MA *St.And. & Oxon.*, *Lectr. in Philos.*
 Frederiksen, M. W., MA, *Lectr. in Anc. Hist*
 Franklin, R. E., BSc PhD Lond, MA, *Lectr in Engin.*
 Lecturers
 Kitzinger, U., BLitt MA (Pol)
 Evans, D. A. H., MA (Engl Lang.)
 Lampert, F. J., BA (German)

New Foundations

ST. ANTONY'S COLLEGE

Founded by the gift of the late M. Antonin Besse, of Aden, and admitted to the privileges of a 'new foundation' in 1950 The college places particular emphasis on graduate studies in modern subjects and admits a high proportion of students from abroad. Students in residence (1960-61), 71. Telephone Oxford 59651.

Warden—F. W. D. Deakin, DSO, MA

Official Fellows

Joll, J. B., MA, *Sub-Warden*
 Hatley, P. C., OBE, MA, *Bursar*
 Footman, D. J., CMG, MC, MA
 Hudson, G. F., MA
 Rose, S., MA DPhil, *Dean of Degrees, Leverhulme Fellow in Far East Studies*
 Hourani, A. H., MA
 Storry, G. R., MA, *Leverhulme Fellow in Far East Studies, Lectr*
 Hayward, H. M., MA

Professorial Fellows

Kirkwood, K., MA, *Rhodes Prof of Race Relations*
 Jackson, E. F., BCom *Birm.*, MA

Research Fellows

Watkins, D. E., MA
 Iyer, R. N., MA, *Agatha Harrison Res. Fellow*

Luard, D. E. T., BA
 Zeldin, T., MA DPhil
 Campbell, J. K., MA DPhil
 Parker, J. S. F., MA
 Shehab, F., MA DPhil
 Katkov, G., MA
 Bownas, G., MA
 Adie, W. A. C., MA
 Willetts, H. T., MA
 Kaser, M. C., MA
 Laenhardt, P. A., BA BLitt DPhil
 Marani, F., MA
 Bonnin, G. C., BLitt
 Driver, J. E. S., MA
 Vivarelli, R.
 Hingley, R. F., MA
 Cunningham, A.
 Dedyer, V.

Lewis, G., MA DPhil
 Nicholls, A. J., BA BPhil
 Shukman, H

Swainup, S
 Florescu, R R N A R., MA
 Maiquad, D I, BA

Men's and Women's College

NUFFIELD COLLEGE

Founded in 1937 by the Viscount Nuffield 'to encourage postgraduate research especially but not exclusively in the field of social studies and especially by making easier the co-operation of academic and non-academic persons', and incorporated by royal charter in 1958 Students in residence (1960-1961), 32 Telephone Oxford 48014.

Warden—D. N. Chester, CBE, MA *Manc. & Oxon.*

Fellows

Perham, Margery F, CBE, Hon LLD *St And*,
 MA, FBA, *Official Fellow in Imperial Govt*
 Frankel, S. H., PhD DSc(Econ) *Lond*, MA *Rand*
 & *Oxon*, *Prof. of Colonial Econ Affairs*
 Andrews, P W S, BSc(Econ) *Lond*, MA,
Official Fellow
 MacDougall, Sir Donald, CBE, MA, *Official*
Fellow, Bursar
 Clegg, H A, MA, *Official Fellow*
 Kerth-Lucas, B, MA *Camb & Oxon*, *Faculty*
Fellow, Domestic Bursar
 Seton, F, MA DPhil, *Official Fellow*
 Plamenatz, J. P., MA, *Official Fellow*
 Butler, D E, MA DPhil, *Official Fellow, Sr*
Tutor, Dean
 Little, I M D., AFC, MA DPhil, *Official Fellow,*
Bursar
 Hartwell, R M., MA *Syd. & Oxon.*, DPhil, *Pro-*
fessorial Fellow, Librarian
 Robinson, F N H, MA DPhil, *Faculty Fellow*
 Madden, A. F., BLitt MA DPhil, FRHistS,
Professorial Fellow, Dean of Degrees
 Williams, P. M., MA, *Official Fellow*
 Munby, D. L., MA, *Professorial Fellow*
 Walker, N. D., PhD *Edin*, MA, *Professorial*
Fellow
 Gorman, W. M., BA *Dub.*, MA, *Prof of Econ*
 Visiting Fellows
 Allen, W. M., MA

Maudling, Rt Hon R, MA
 Webber, W. J. P., MA
 Plowden, Lord, KCB, KBE, BA *Camb*
 Woodhouse, Hon. C. M., DSO, OBE, MA, FRSL
 Carron, W. J., MA
 Franks, Rt Hon Sir Oliver S., GCMG, KCB,
 MA Hon. DCL
 Callaghan, L. J., MA
 McLachlan, D. H., OBE, BA
 Hall, Sir Robert L., KCMG, CB, MA
 Stephens, F. J., MA *Camb*

Research Fellows

Kitzinger, U., BLitt MA
 Fox, A., MA
 Jassy, A. E., BA *W Aust*
 Harrison, M., BA *Manc*, DPhil
 McCarthy, W. E. J., BA
 Burnbaum, N., PhD *Harv*, MA
 Bhagwati, J. N., BA
 Shapiro, D. M., MA BPhil
 Corina, J. G., MA DPhil
 Weinstein, W. L., BPhil
 MacIntyre, A., MA *Manc*
 Airey, L., MA *Camb*, *Gwilym Gibbon Res Fellow*
 Packman, Jean W., MA *Camb*, *Gwilym Gibbon*
Res Fellow

Chaplain

Lee, Rev. R. S., BLitt MA DPhil

St. Catherine's Society

(see also p 1155)

ST. CATHERINE'S SOCIETY

Established 1868 as Delegacy of Non-Collegiate Students, the present name was adopted in 1930.
 Students in residence (1960-61), 393 Telephone Oxford 43527

Censor—A. L. C. Bullock, MA

Tutors

Horwood, F. C., MA (*Engl.*), *Dean*
 Knapp, W. F., MA (*Pol.*), *Bursar*
 Simopoulos, J. C., BPhil MA (*Philos.*)

Holmes, G. A., PhD *Camb.*, MA *Camb & Oxon.*
 (*Mod. Hist.*), *Librarian*
 Brewer, F. M., MBE, PhD *Corn.*, BSc MA, FRIC
 (*Chem.*)

Shaw, P. F. D., MA DPhil (*Phys*)
 Davies, J. D., LL.B. *Wales*, BCL MA (*Law*)
 Horgan, A. D., MA (*Engl*)
 Spencer, P. H., PhD *Camb.*, MA *Camb. & Oxon.*
 (*French*)
 Dickson, P. G. M., MA (*Mod. Hist.*), *Dean of*
Degrees
 Baragwanath, L. E., BA *Melb.*, BPhil MA
 (*Econ*)
 Stocken, L. A., BSc *Lond.*, MA DPhil, FRIC
 (*Biochem.*)

Taylor, A. B., MA DPhil (*Maths*)
 Martin, J. W., PhD *Camb.*, MA *Camb. & Oxon.*,
 DPhil (*Metall*)
 Smith, E. B., BSc PhD *Liv*, MA (*Chem.*)
 Schultz, D. L., DPhil (*Engin*)
 Lecturers
 Houston, J. M., MA *Edn & Oxon.*, BSc DPhil
 (*Geog.*)
 Cowan, J., MA *Camb. & Oxon.* (*German*)

Permanent Private Halls

CAMPION HALL

Established 1896 for members of the Society of Jesus only, and granted present status in 1918.
 Students in residence (1960-61), 45. *Telephone* Oxford 41342.
 Master—Rev. A. D. Doyle, MA

Rooney, Rev. P. H., MA, *Bursar*
 Lecturers and Tutors
 FitzGibbon, Rev. B., MA, *Tutor (Mod. Hist.)*,
Chaplain, Librarian
 Stephenson, Rev. A. A. P., MA, *Tutor (Theol.)*
 Turner, Rev. V. G., MA, *Sr Tutor, Tutor*
 (*Philos.*), *Dean of Degrees*

GREYFRIARS

Established in 1910, and granted its present status in 1957. It now receives undergraduates for tuition in any school, giving priority of acceptance to student members of all branches of the Franciscan Order. Students in residence (1960-61), 18. *Telephone* Oxford 43694.
 Warden—Very Rev. P. E. L. Peacock, MA DMus
 Tutor: O'Neill, Rev. E. J., MA

MANSFIELD COLLEGE

Founded in 1886 to provide 'a Free Church faculty in theology in Oxford', and a college for the training of dissenting ministers, chiefly but not exclusively of the Congregationalist denomination, and granted its present status in 1955. The college now receives undergraduates for tuition for the BA degree, and graduates, not necessarily of Oxford, for training in theology. Students in residence (1960-61), 52. *Telephone* Oxford 485671.

Principal—Rev. J. Marsh, Hon. DD *Edin.*, MA *Edn. & Oxon.*, DPhil

Tutors
 Caird, Rev. G. B., Hon. DD *Montr.*, MA DPhil,
Sr Tutor
 Parkes, M. B., BLitt MA
 Sherman, Rev. F. E., AM PhD *Chic*
 Sykes, D. A., MA
 Wall, S. de R., MA
 Yeaxlee, Rev. B. A., CBE, BA PhD *Lond.*, BLitt
 MA, FBPoS, *Librarian, Dean of Degrees*

REGENT'S PARK COLLEGE

Originally founded in 1810 as the 'Baptist Academical Institution in Stepney', established in Oxford between 1927 and 1940, and granted its present status in 1957. The college admits theological students and others wishing to read either for the BA degree or for research degrees. Students in residence (1960-61), 35. *Telephone* Oxford 59887.

Principal—Rev. G. H. Davies, Hon. DD *Glas.*, BD *Wales*, MA *Wales & Oxon.*, BLitt

Tutors: Argyle, Rev. A. W., BD MA, *Dean, Librarian, Angus Lectr.*;
 Pearce, Rev. G. J. M., MA *Burm. & Oxon.*, PhD *Aberd.*

ST. BENET'S HALL

Established 1897 for members of the English Benedictine Abbey of Ampleforth, Yorkshire only, and granted present status in 1918 Students in residence (1960-61), 19 Telephone . Oxford 55006
Master—Rev. F. G. Sitwell, MA

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Women's Colleges

(Admitted to full college status in 1959)

LADY MARGARET HALL

Founded in 1878 under a trust deed, and incorporated by royal charter in 1926.
Students in residence (1960-61), 257. Telephone . Oxford 57214
Principal—Lucy S. Sutherland, CBE, MA DLitt, FBA

Fellows

Lea, Kathleen M., MA, *Vice-Principal, Tutor in Engl*
Sutherland, Mrs D Rhoda, MA, *Tutor in French Philol*
Kneale, Mrs Martha, MA, *Tutor in Philos*,
Lynda Grey Fellow
Hurnard, Naomi D., MA DPhil, FRHistS, *Tutor in Hist.*, *Sir Ernest Cassel Fellow*
Whiteman, E Anne O., MA DPhil, FSA, FRHistS, *Tutor in Mod. Hist*
Hicken, Winifred F., MA DPhil, *Tutor in Classics*
Agate, Joan, MA, *Treasurer, Secretary*
Crow, Mrs. Joan, MA, *Tutor in French Lit*
Jeffery, Lillian H., MA Camb & Oxon., DPhil, FSA, *Tutor in Anc. Hist*
Stewart, Mrs. Alice M., MD Camb., MA, FRCP, *Reader in Soc Med*

Jennings, Hon Mrs Margaret A., MA DM, *Science Res Fellow*
Mackenzie, Elizabeth G W., MA, *Tutor in Engl. Lit., Librarian*
Ord, Margery G., BSc PhD Lond., MA, *Tutor in Nat. Sci*
O'Brien, Mary C M., MA DPhil, *Tutor in Maths & Theoret Phys*
Crowther, Mrs. Wilma B., MA, *Tutor in Zool*
Bulbring, Edith, DM Bonn, MA, FRS, *Reader in Pharmacol.*
Pennington, Anne E., MA, *Tutor in Russian*

Lecturers

Ing, Mrs Catherine M., MA DPhil (*Engl Lit*)
Kean, Patricia M., MA (*Engl Lang*)
Dick, Mrs. Cecilia R., MA (*Mod Hist*)
Hudson, Anne M., BA (*Engl Lang.*)

ST. ANNE'S COLLEGE

Founded in 1879 as the Society of Oxford Home-Students, became St Anne's Society in 1942, and was incorporated by royal charter in 1952. Students in residence (1960-61), 297 Telephone Oxford 57417.

Principal—Lady Ogilvie, Hon. LLD Wilson (Pa) & Belf., MA

Fellows

Ady, Miss Peter H., MA, *Tutor in Econ*
Barnes, Mrs. Anne M., DrPhil Berne, MA DPhil, *Tutor in French*
Bayley, Mrs. Jean I., MA, *Tutor in Lit Hum*
Bednarsowska, Mrs Dorothy M., MA, *Tutor in Engl*
Carter, Mrs Elizabeth M., LLM Yale, BCL MA, *Tutor in Jurisp*
Griffiths, Mary E., MA, *Tutor in Engl*
Hart, Mrs. Jennifer M., MA, *Tutor in Mod Hist*
Hubbard, Margaret E., MA, *Tutor in Classics*
Kearsley, Mary J., MA DPhil, *Tutor in Maths*
Livock, Dora M., MA, FCA, *Treasurer*
May, Marjorie B., BLitt MA, *Tutor in French*

Morrison, Christine L., MA, *Vice-Principal, Tutor in Engl*
Reeves, Marjorie E., PhD Lond., MA, FRHistS, *Tutor in Mod Hist*
Taylor, Mrs Ann G., BM MA, *Lectr. in Physiol.*

Supernumerary Fellows

Harvey, Ruth C, MA, *Lectr in German*
Neame, Mrs Elizabeth, MA

Lecturers

Hallaway, Hester M., MA DPhil (*Biochem*)
Ingham, Mrs. Patricia T., MA (*Engl. Lang.*)
Lewis, Mrs Ruth G., MA (*Mod. Hist*)
Mitchell, Mrs Barbara M., MA (*Anc. Hist.*)
Pearce, Stella A., MA (*Zool.*)
Rutson, E. M., BA BLitt (*French*)

ST. HILDA'S COLLEGE

Founded as St. Hilda's Hall in 1893, and incorporated by royal charter in 1926
Students in residence (1960-61), 239. Telephone · Oxford 41821

Principal—Kathleen Major, Hon DLitt Nott, BLitt MA, FSA, FRHistS

Fellows

- Smalley, Beryl, PhD *Manc.*, MA *Manc & Oxon*,
FRHistS, *Vice-Principal*, *Tutor in Mod Hist*
Gardner, Helen L., Hon DLitt Durh, MA, FBA,
Professorial Fellow, *Reader in Renaissance*
Engl Lit
Crowe, Sibyl E., PhD *Camb*, MA *Camb & Oxon*,
FRHistS, *Tutor in Pol*
Gerard Davis, Mrs. Mary I., MA DPhil, *Tutor in*
Mod Langs.
Tomlinson, Muriel L., MA *Camb & Oxon*, DPhil
DSc, FRIC, *Tutor in Nat Sci*
Prestwich, Miss Menna, MA, FRHistS, *Tutor in*
Mod Hist
Elliott, Anne H., MA, *Tutor in Engl Lit*
Sisam, Celia, MA, *Tutor in Engl Lang*

- Christie, Margaret I., PhD *Glas. & Camb.*, MA
Glas, Camb & Oxon, *Tutor in Nat. Sci.*
Rayner, Margaret E., MSc Lond., MA DPhil,
Tutor in Maths
Levick, Barbara M., MA DPhil, *Librarian*, *Tutor*
in Classics
Hill, Mrs Bridget I., BSc(Econ) Lond, *Treasurer*
Lecturers
Fillenz, Marianne, MB ChB N.Z., MA DPhil
(*Physiol*)
Ing, Mrs. Catherine M., MA DPhil (*Engl. Lit*)
Paul, Mrs Margaret E., BPhil MA (*Econ*)
Varley, Mrs. Margaret E., MA *Camb. & Oxon.*
(*Zool*)
Wolfram, Mrs. Eva M. S., MA DPhil (*Philos*)
Mein, Margaret, PhD Lond, BA (*Fr*)

ST HUGH'S COLLEGE

Founded as St. Hugh's Hall in 1886, and incorporated by royal charter in 1926.
Students in residence (1960-61), 215. Telephone · Oxford 57341.

Principal—Evelyn E. S. Procter, MA

Fellows

- Headlam-Morley, Agnes, BLitt MA, *Professorial*
Fellow, *Montague Burton Prof of Internat*
Relations
Gray, Dorothea H F, OBE, MA, *Vice-Principal*,
Tutor in Classics
Adam, Madge G, MA DPhil, *Sr Res Fellow*
Busbridge, Ida W., MSc Lond, MA DPhil,
Tutor in Maths
Kemp, Betty, BA *Manc.* MA, *Tutor in Hist.*
Smith, Hon Honor M V, BSc MD Lond, MA,
MRCP, *Sr Res Fellow*
Gradon, Pamela O E, PhD Lond, MA, *Tutor in*
Engl. Lang.
Wells, Agnes P, BA Lond, MA, *Treasurer*
Warnock, Mrs Helen M, BPhil MA, *Tutor in*
Philos.
Wood, Mrs Susan M, BLitt MA, *Tutor in*
Medieval Hist

- Sweeting, Marjorie M, PhD *Camb*, MA *Camb.*
& Oxon, *Dean*, *Tutor in Geog*
Trickett, Mabel R, MA, *Tutor in Engl Lit.*
Jacobs, Margaret, BLitt MA, *Tutor*, *Cassel Lectr.*
in German
Bleaney, Mrs Betty I., MA, *Asst. Tutor in Nat.*
Sci (Phys)
Daniel, Vera J, BA PhD Lond, MA, *Tutor in*
French
Dickinson, Joycelyn G., MA DPhil, *Librarian*
Lunt, Mary R., MA DPhil, *Asst. Tutor in Nat.*
Sci (Biochem)
Lecturers
Roaf, Mrs Evelyn C. M., MA DPhil, *Martiniengo*
Cesaresco Lectr. in Italian
Cooper, Theodore C, MA *Camb. & Oxon (Econ)*
Atiyah, Mrs Lily J. M., MA *Edin.*, BA PhD
Camb (Maths)
Barber, Mrs Monique L T, MA (*Fr*)
Pearce, Stella A., MA (*Zool.*)

SOMERVILLE COLLEGE

Founded as Somerville Hall in 1879, and incorporated by royal charter in 1926
Students in residence (1960-61), 279. Telephone : Oxford 57595.

Principal—Dame Janet M Vaughan, DBE, Hon DSc Wales, MA DM, FRCP

Fellows

- Henderson, Mrs. M Isobel, MA, *Vice-Principal*,
Tutor in Anc Hist
Hartley, Mildred, MA *Camb & Oxon*, *Tutor in*
Classics
2 P

- Armstrong, Mrs Annette E., MA DPhil, *Tutor in*
French Lit., Dean of Degrees
Hall, Lady (Laura M.), MA, *Tutor in Econ.*
Foot, Mrs Philippa R., MA, *Tutor in Philos.*,
Alice Cobb Res. Fellow

Banister, Rachel J, BSc *Edm.*, MA, Tutor in *Physiol.*
 Syfret, Rosemary H, MA *Camb & Oxon*, Tutor in *Engl. Lit.*
 Ramm, Agatha, MA *Lond & Oxon*, FRHistS, Tutor in *Mod. Hist.*
 Cobbe, Anne P, MA DPhil, Tutor in *Maths*
 Harvey, Barbara F, BLitt MA, Tutor in *Mod. Hist.*
 Proudfoot, Mrs Mary, MBE, BLitt MA, Sec., Dean, Lectr in *Pol.*
 Harding, Mrs. Marjorie M, MA, Tutor in *Chem.*

Professional Fellows
 Starkie, Enid M, DèS L *Paris*, Hon. DLitt *Exe & Oxon*. MA FRSL
 Hodgkin, Mrs. Dorothy M, PhD *Camb*, Hon DSc *Leeds*, BSc MA, FRS
 Puce, Mrs Antoinette, MA

Additional Fellow
 Lascelles, Mary M., BLitt MA
 Tutors and Lecturers
 Sayce, Mrs Olive L, MA, *Sarah Smithson Lectr (German)*
 Turville-Petre, Mrs Joan E, BLitt MA (*Engl Lang*)
 Anscombe, G. Elizabeth M (Mrs. Geach), MA (*Philos*)
 Roaf, Mrs. Evelyn C M, MA DPhil (*Italian*)
 Richards, Mrs Eva, BSc *Lond (Chem)*
 de Villiers, Lady (Evangeline), OBE, BLitt MA (*Hist*)
 Robinson, F N H, MA DPhil (*Phys*)
 Maudsley, R H, BCL MA (*Jurisp*)
 Crowth, Mrs Wilma B, MA (*Zool*)
 Woolf, Rosemary E., BLitt MA (*Engl Lang. & Medieval Lit*)

GENERAL INFORMATION

[See below, p 1161, under 'Publications', for pamphlets giving information about admission, residence, entrance scholcs, expenses, exams, degrees, research, etc.]

There is evidence that there existed in Oxford in the early 12th century schools which by the end of that cent. had developed into a univ., a devel. perhaps helped by the fact that about the year 1167 English students were prevented from attending the Univ of Paris. By about 1200 there were a number of masters lecturing on various subjs., incl. the recently recovered works of Aristotle, and in 1214 the univ. received its first recorded recognition as a body in a grant by the papal legate of certain privileges incl. reduction of the rents it paid. In the 13th cent. the coming of the friars, notably the dominicans and franciscans, strengthened the univ., especially in the theol. fac. In the same cent. the 3 first colls (University, Balliol and Merton) were endowed, and 12 more were founded between 1300 and 1555. During the middle ages, however, the colls. were more or less reserved for grad fellows (as All Souls still is), and the great majority of undergrads and grads. lived in a large number of academic 'halls', or hostels, scattered about the town. The univ. at first had no bldgs of its own, but made use of hired lecture rooms or of churches, especially St Mary's church, until, in the 15th cent., the div. sch. was built. From the 13th cent. onwards the position of the univ. was strengthened by a succession of charters from the crown, but during the Reformation it suffered from the suppression of the monastic colls. In 1571 the univ. was incorporated by act of parliament, and much reorganization followed, in particular, the undergrads now came to be included in the colls. Professorships were first endowed in the early 16th cent., and increased notably in the early 17th cent. The important code of statutes introduced in 1636 by Archbishop Laud, chancellor of the univ., remained in force, with certain modifications, for about 150 yrs. During the civil war the univ.

supported the king, who made Oxford his headquarters, and parliament met there. The later 17th cent. saw an increase of scientific studies at Oxford, and towards the end of the 18th cent. the standard of studies rose as written exams gradually took the place of oral exams. The constitution was revised, as a result of the work of royal commissions, in 1854 and in 1877. coll. statutes were re-made and studies reorganized, and the professoriate was increased and re-endowed. In 1871 religious tests were abolished, and the MA degree was thrown open to non-conformists, and since 1920 women have been admitted to membership of the univ. under the same conditions as men as regards standing, exams, courses of study and fees, and residence. As a result of the work of a further royal commission, the existing constitutional arrangements were adapted in 1923 to meet the needs of the times, one result being that the univ. from then onward received an annual Treasury grant.

CONSTITUTION. The central policy-forming and exec. body in the univ. is the *hebdomadal council*, comprising the chancellor (a non-resident member, elected for life by convocation), the vice-chancellor (a coll. held nominated by the chancellor annually, usually holding office for 2 yrs, and *de facto* chairman of the hebdomadal council), the immediate ex-vice-chancellor (for 1 yr after the expiry of his term of office) or one of the pro-vice-chancellors who has not held the office of vice-chancellor, the 2 proctors (disciplinary officers, elected annually by colls. in rotation), the representative of the women's colls., and 18 members elected by congregation (see below).

Other considerable powers and responsibilities are held by the *general board of the facs.*, which comprises the vice-chancellor, the proctors, the representative of the women's colls. and reps

of the hebdomadal council, the curators of the univ. chest, and the several facs.—theol, law, med, literae humaniores, mod. hist, Engl lang & lit, mediæv. & mod. langs, oriental studies, phys scis (incl maths), biol. scis, soc. studies, anthropol & geog, music, agric. & for, and psychol studies—and which exercises a general supervision over the teaching (other than coll teaching), res and exams of the univ (executive organization being in the hands of the several bds of the facs, the bd in each case being composed in part of *ex-officio* and in part of elected members); and by the curators of the univ chest, who are responsible for the detailed financial administration of the univ. and for the preparation of accounts and estimates

The hebdomadal council submits proposals for the amendment of the statutes (which govern the working of the univ), and measures for the conduct of business beyond the scope of its own authority, to the congregation of the univ, which can adopt, reject, or amend them, congregation comprises mainly the teaching and sr admin staff of the univ. Legislation carried by the vote of less than two-thirds of the members of congregation present and voting is referred to, and can be carried or postponed or rejected by *convocation*, a larger body comprising all holders of the MA and certain sr degrees who have their names on the univ books; convocation also confers degrees by dipl and hon degrees, and authorizes the affixing of the univ seal when necessary.

The COLLEGES are corporate bodies distinct from the univ, they manage their own property, elect their own officers, have their own bldgs and facilities (usually including residential accomm, dining-hall, chapel, library, sr and jr common-rooms, and playing-fields) and control the selection and admission of their own undergraduates; and the proctors have no power within their walls. They are, however, subject to the univ. statutes in certain connexions, notably presentation and audit of accounts, contributions for univ. purposes and elections to professorial fellowships; and all persons who are members of colls are also members of the univ and so come under the univ's rules. Teaching is carried out partly by way of lectures and classes held by univ profs, readers, lectrs and demrs, partly by way of individual tuition given by coll tutors and lectrs. (most of whom hold, in addition to their coll posts, pt-time univ. lectureships and are referred to on pp 1123-1136 as Common University Fund lectrs)

ST CATHERINE'S COLLEGE A new coll, St Catherine's College, will be opened in 1962 (master A L. C. Bullock, MA, Bursar. D J Wenden, MC, MA) St. Catherine's Society will then disappear and a new non-resident postgrad. society called Linacre House will be opened

INCOME The income of the univ (not incl the income of the separate colls.) for the year 1959-60 was £3,968,700, made up as follows: endowments, £347,910 (8.7 per cent.); parlia-

mentary grants, £2,710,791 (68.5 per cent), fees, £293,119 (7.3 per cent), payments for res., £475,796 (12 per cent), contributions from colleges, £75,801 (1.9 per cent), other income, £65,283 (1.6 per cent)

FACULTIES AND DEANS. For facs see under 'Constitution', above. There are no deans of facs; enquiries about admission should be addressed to the head clerk, Univ. Registry, Oxford

UNIVERSITY BUILDINGS. Most of the individual colls. and halls of the univ are centrally situated, together with the major bldgs serving the univ as a whole (e.g. Bodleian library, Sheldonian theatre, Ashmolean museum, exam schools), sci depts and labs are mostly congregated in the science area, which is adjacent to the univ parks and N of central Oxford

Bldgs completed in recent yrs incl provision for agric, inorg & org chem., human anat, metall, microbiol, and pharmacol, an extension of the Ashmolean Museum, a gallery for casts, an oriental inst., a hist fac library, and an extension of the dept of educ

Devels taking place at present or in the near future incl bldgs for the depts of engin, biochem, phys, geol, an Engl. fac library, a law library, an inst of stats, and a spectators' stand at the athletics ground

LIBRARIES The principal library of the univ. is the Bodleian library (founded in 1602 by Sir Thomas Bodley), with its dependent libraries (Radcliffe sci libr, Rhodes House libr, which deals with the hist of the British Commonwealth and the U.S.A., and Indian Inst libr) It is entitled, under the Copyright Act, 1911, to a copy of every book published in Gt. Britain & Ireland, and now contains about 2,190,000 books and 50,000 MSS. Persons other than members of the univ. may be allowed to read in the libr. in certain circumstances at the discretion of the librarian. The *Visitors' Guide* (on sale at the libr.) gives a short hist. The chief books relating to it are: Macray, W D, *Annals of the Bodleian Library* (Clar. Press, 1890, 35s.), Craster, Sir H. E. E., *History of the Bodleian Library, 1845-1945* (Clar. Press, 1952, 42s.); *The Bodleian Library Record* (3s. 6d per number, obtainable from the librarian).

Two other important libraries are those of the Taylor Institution (about 160,000 books on mod. langs & lit, incl. the chief philological, lit and historical works in the principal European langs.) and the Ashmolean museum (about 84,500 books on classics, anc hist, archaeol, art and near eastern studies). In addition, there are some 46 dept and fac libraries containing altogether about 360,000 books of sp. interest to their particular students.

Apart from these univ libraries, each coll. has its own library, use of which is normally restricted to members of the coll. Two libraries at All Souls Coll (Codrington libr of law and mod. hist. and Brand libr. of pol. econ & sci.) are, however, open to any recommended member of the univ.

LABORATORIES, ETC The univ has labs of inorg chem, agric (with field stn), geol and mineral, zool, phys (Clarendon lab), engin, metall, physiol., biochem., human anat, pharmacol., org chem (Dyson Perrins lab), phys. chem., for. (Imperial Forestry Inst), bot, pathol, and computing, a res lab for archaeol and the hist of art, an observatory, and a botanic garden

MUSEUMS The *Ashmolean Museum* (tel 57522) (keeper—Sir Karl T Parker, [Oriel], CBE, PhD Zool, MA, FBA), Beaumont St, contains one of the best collections of European and near eastern archaeol. in the world, the univ.'s collection of coins, a fine collection of paintings, old master drawings, water-colours, Italian maiolica and bronzes, English silver, and other objects of appl. art. The *Museum of Eastern Art* contains the combined far eastern collections of the Ashmolean Museum and the Indian Inst, including a very extensive range of early and late Chinese porcelain, a fine collection of Chinese bronzes, and comprehensive ranges of Islamic pottery, Japanese craft-work and Gandharan sculpture

The *Univ. Museum* (tel 57467), Parks Rd, contains the collections of the Hope dept of zool (entomol.), of the dept of zool, and of the dept of geol & mineral

The *Pitt Rivers Museum* (tel 57467) (curator—T. K. Penniman, [Trin], MA, FSA), Parks Rd, contains an anthropological collection and library illustrating prehistoric archaeol and the evolutionary hist of material arts, the collection comprises notably armour, pottery, clothing, musical instruments, tools, magical objects and objects of various special arts and industries

The *Museum of the Hist of Sci* (tel 43997) (curator—C. H. Joesten, [Bras], LLD Erlangen, MA), Broad St., illustrates the hist of scientific studies, especially in Oxford, by contemp instruments, portraits and books

TEACHING HOSPITALS. Facilities for undergrad and postgrad teaching for the univ are provided by the United Oxford Hosps, which comprise the Radcliffe Inf and the Churchill and Osler Hosps., and by the regional hosp bd in the Littlemore, Warneford and Park Hosps and in the Nuffield Orthopaedic Centre.

FACILITIES OF SPECIAL INSTITUTIONS. *Institute of Education*, 15 Norham Gdns (tel. 58631). Exists to promote co-operation between the univ, the 5 constituent members of the inst (the dept. of educn, Culham Coll, Blechley Park Coll, Newlands Park Coll and Westminster Coll.), local educn. authorities and other educn agencies in the county borough of Oxford, the county of Oxfordshire and certain neighbouring areas Dir. A. D. C. Peterson, [Ball], OBE, MA; sec. M. M. Spencer, [Ball], MA

Maison Française, 72 Woodstock Rd (tel 57666). An academic, social and cultural centre for French studies and students. Dir. H. A. E. Fluchère, [Exeter], MA, asst. dir.: R. A. L. J. Hibon, [S. Ant.], MA

Institute of Commonwealth Studies. Establd by statute of the univ in 1945 The inst (tel 57541) has a library, a seminar room, tutors' and res. officers' rooms and offices at Queen Elizabeth House (see below), not far from Rhodes House The inst is governed by the cttee for commonwealth studies of the univ. Res dir. A. F. Madden, [Nuff], MA DPhil Sec. to the cttee. T. P. Soper, [S. Ant.], BLitt MA

Queen Elizabeth House, Black Hall, St Giles (tel 59000). Establd in the hope of making possible a new approach to the major problems affecting the overseas territories for which H.M. govt in the U.K. is responsible and other countries which share their problems Warden L. C. Wilcher, [Ball.], CBE, BLitt MA

The following instns are approved by the univ for the purpose of providing instructn for students for certain dipls open to non-members of the univ (see p. 1158)*

Ruskin School of Drawing and of Fine Art, Ashmolean Museum (tel 55744) Provides a course of trg for the cert in fine art Ruskin Master of Drawing. P. F. Horton, [New], MA.

Department of Social and Administrative Studies, Barnett House, Wellington Sq (tel 55050). Provides courses of trg for the dipl in pub & soc. admin. Sec. L. J. Barnes, [Univ.], MC, MA

Ruskin College, Walton St (tel 55920) A residential coll. for adult educn., offering courses in soc scis and trade union studies, provides courses of trg. for the dipls. in pub & soc. admin., in econ., and in econ & pol sci. Certain scholps are available (particulars from the sec.).

Catholic Workers' College, Boars Hill, Oxford (tel. 35458). Admits adult working-class students under certain conditions; provides courses of trg for the dipls. in pub & soc. admin., in econ., and in econ & pol. sci. Certain scholps are available (particulars from the principal)

UNIVERSITY ENTRANCE REQUIREMENTS. It should be particularly noted that although information about the univ. entrance requirements may be obtained by students both at home and overseas from the head clerk, Univ Registry, Oxford, no person may become a member of the univ without first securing admission to a coll. or society, and that appln for admission to the univ. must first of all be addressed to the appropriate officer of the society to which admission is desired. Full details may be obtained from Appendix III to this volume. Advice on special problems affecting overseas students may be sought from the actg adviser to overseas students, Univ Registry, Oxford.

Incorporation into the univ is open under certain conditions to undergrads and grads of the univs. of Cambridge and Dublin, incorporation means admission to the status (and degrees if applicable) corresponding at Oxford to that held at Cambridge or Dublin Notice of intention to incorporate as an undergrad must be sent to the registrar through the head of a coll., hall, or society. Incorporation as a grad. (for which adequate

reasons must be provided, *eg* obtaining of an educul post in the univ, or intention to pursue a definite course of study in the univ) is limited to holders of the BA, MA, BD, or DD of Cambridge or Dublin, of the LLB, LLL, MB, MD, MChir of Cambridge, and, under certain conditions, of the ScD, MusD, LittD, and PhD of Cambridge or Dublin

NON-MEMBERS OF THE UNIVERSITY may be admitted to lectures given in a univ bldg (but not to classes, seminars, or informal instruct) on certain conditions and on payment of £10 a term (or, for lectures in one fac only, £6 a term) to the sec of the Univ Chest, 16-19 Wellington Sq, Oxford

Persons qualified for sr status (see Appendix III), or other grads who may in sp circumstances be approved, who wish to study at the univ for not more than one yr and who do not intend to read for a degree may apply to the appropriate fac bd for admission as *recognized students*. Certain fac bds will admit to this status only those who are members of the teaching staff of a univ. Such students are not members of the univ, but are placed under a dir. of studies and are entitled to attend lectures in univ. bldgs, to use the univ libraries and to work in any univ dept. or instr subject to the agreement of the hd. of that dept. or instr. Applcn. forms for this status may be obtained from the sec. of faculties, University Registry, Oxford. The applcn. must be accompanied by evidence of degrees previously obtained, a statement of the proposed subject of study and a cert. from a prof. or hd. of a dept. of the Univ of Oxford supporting the applcn. Admission fee of 5 gs, and terminal fees of from £10 to £13, are payable

FIRST DEGREES BA—3 yrs., or, in certain cases, 4 yrs. This is the first degree in both arts and sci. subs (The BSc degree at Oxford is a postgrad. degree—see 'Higher Degrees', below)

A candidate for the degree of BA must reside at the univ as a matriculated member for 9 terms, and must be successful both in the first public exam and in the second public exam

The subs. of the first public exam are: honour classical moderations, honour maths moderations, honour sci moderations; honour theol moderations, honour biochem moderations, law moderations; prelim nat. sci., prelim geog.; prelim mod. langs.; prelim mod hist., prelim. English, prelim. oriental studies; prelim classical (Greek & Latin) langs.; prelim. theol., prelim. philos., pol. & econ., prelim. music; prelim psychol., philos. & physiol and prelim physiol. Every candidate for the degree of BA must be successful in one of these subs., in honour moderations the lists of successful candidates are divided into classes

The subs. of the second public exam consist of a pass sch and a number of honour schs. Every candidate for a pass BA degree must be successful in 3 of a large variety of subs., one of the 3 being a lang other than English. Every

candidate for an hon. BA degree must not have exceeded a certain number of terms from matric and must have obtained hon. in one of the following literae humaniores (philos. & anc. hist.), maths; nat. sci. (phys., chem., physiol., zool., bot., geol., biochem., metall., or engin.), jurispr., mod. hist.; theol., oriental studies (Sanskrit, Arabic, Hebrew, Persian, Egyptian or Chinese); Engl. lang. & lit., mod langs. (French, German, Italian, Spanish, Russian, mediev & mod Greek, or Portuguese); philos., pol. and econ., geog.; agric.; for.; psychol., philos. & physiol.; and music. The lists of successful candidates in hon. exams are divided into 4, or in some cases 3, classes

'Transfer course' Under arrangements made with Imperial Chemical Industries Ltd, it is possible for boys who have studied mainly arts subs. at sch, but who feel that their main interest may after all be in sci., to spend a yr in London doing an intensive course in chem, maths, and phys before coming to Oxford. At the end of the course they can decide whether to start reading for a degree in sci. or whether to return to their original suby. Further information about this 'transfer course' may be obtained from the student's coll

Under certain conditions, grads. of other univs may be admitted to the status of 'senior student' and obtain exemption from the first public exam, as well as remission of 3 terms of the necessary residence (see Appendix III)

BM BCh—min 6 yrs. This is the first degree awarded by the univ in med, though (with very few exceptions) it may not be awarded to persons who have not first taken the BA degree, which will normally have been obtained after the first 3 yrs by gaining hon. in certain of the subs. being studied concurrently for the BM. The last 3 yrs. of the course are devoted to clin. studies, and may be spent either in the Oxford clin. sch. or in an approved clin. sch. elsewhere. Further information from the sec. of the Med. Sch., Osler House, 43 Woodstock Rd., Oxford.

HIGHER DEGREES MA—open only to Oxford BAs, and awarded without further exam after 7 yrs from matric. on payment of certain fees

BPhil—min 1 yr's study. This degree is granted after an exam. in philos. or Greek and Latin langs & lit. or pol. or econ. or European hist. or Commonwealth & American hist. or Engl. studies or oriental studies of the same type as that in a final honour sch, but is open only to persons who either have previously obtained 1st or 2nd class hon. in certain prescribed honour schs. at Oxford, or are grads. of Oxford or of another univ who have been admitted by the appropriate fac bd. Courses of instruct in the subs. of the exams are provided. A thesis may be offered in addition to the written work. Residence for 6 terms is required.

BSc and BLitt—min. 1 yr.'s study. These degrees are granted upon the satisfactory completion of an approved course of sp study or res.,

pursued under supervision and for the most part at Oxford, and of at least 6 terms' residence. Applicant to enter upon such a course may be made by any person who produces sufficient evidence of his ability and either is a member of the univ. who has passed the exams for the degree of BA, or has taken an approved degree at an approved univ, or is held by the fac bd. concerned to be fully qualified to engage in res, or (for the BLitt only) has obtained an Oxford dipl. with distinction. Applicant must in all cases be made to the sec of faculties through an officer of the society to which the candidate belongs or desires to belong. A candidate for the BLitt must first undergo a probationary period of trg in res methods and then do a sp piece of res work and write a thesis, and may be required to pass a written exam. For the BSc, which is confined to the study of med, maths, nat. sci., anthropol, geog, agric, for and psychol, no probationary period is prescribed.

BMus—min 1 yr This degree is open only to those who have been admitted to the degree of BA with 1st or 2nd class hons. in music. Candidates must pass a written exam. and submit a musical exercise for approval.

DPhil—min 2 yrs (except that for a candidate who is a BPhil the min. is 1 yr) This is a higher res degree in letters or sci presupposing prelim trg. in res, or outstanding ability, and requiring that the candidate's work shall result in 'an original contribution to knowledge deserving publication'. It is usually required that the applicant should either have obtained the Oxford degree of BLitt or BSc or have served an apprenticeship in res approximately equal in value to that implied by those degrees. A grad. of another univ may be admitted if he can produce evidence of special fitness in a manner satisfactory to the bd of the fac concerned.

BCL—2 yrs The exam. is open either to BAs of the univ. or, under certain conditions, to grads of other univs. The subs are Roman & Engl. law, together with 2 of the following sp. subs.: mod jurisp., conductores, evidence, criminal law & penology, pub internat law, Roman-Dutch law, legal hist., admin law, compar. law of matrimonial causes. Courses of instruct in the subs. of the exam are provided.

BD—2 yrs This degree is open to candidates over 21 yrs of age who have passed a qualifying exam in Christian theol., pursued a course of study therein, and submitted a thesis of sufficient merit in some branch of the subj. No candidate may present a thesis until he has passed the qualifying exam., which is open to Oxford MAs, to persons who have, not less than 5 terms previously, passed all exams. for the Oxford BA, and, under certain conditions, to grads of other univs. 1st or 2nd class hons. in the final honour sch. of theol. exempts from the qualifying exam.

Other Higher Degrees The following are open only to Oxford grads of many years' standing. **DLitt** and **DSc**—awarded for published work constituting an original contribution to the advancement of learning or science respectively. **DMus**—

awarded for a major musical work or works of outstanding merit. **MCh**—candidates must pass a written exam on the principles and practice of surg and must submit a thesis on an approved subj connected with surg. **DM**—awarded on a thesis, or published work, on an approved subj. connected with med. **DCL**—awarded for published work forming a substantial contribution to legal learning. **DD**—awarded on a thesis, or published work, in some branch of Christian theol.

HONORARY DEGREES The following may be conferred as honorary degrees: MA, DSc, DLitt, DMus, DCL, DD.

The univ. does not award **EXTERNAL DEGREES**.

DIPLOMAS AND CERTIFICATES The period of study is one yr or a min. of one yr unless otherwise stated in the following lists, which also indicate the source from which particulars may be obtained.

Dipls. conf'd to members of the univ.: agric. econ. (dir, Agric. Econ Res Inst, Parks Rd, Oxford); classical or European archæol (sec to cttee for archæol, Ashmolean Museum, Oxford); hist. of art (sec. to cttee. for hist. of art, c/o Univ Registry, Oxford); hist. & philos of sci (sec to cttee for hist & philos of sci, c/o Univ Registry, Oxford); Celtic studies (normally 2 yrs), law, Slavonic studies, stats, theol (sec. of faculties, Univ Registry, Oxford). The cert in stats (sec. of faculties, Univ Registry, Oxford) is also confined to members of the univ.

Dipls. not conf'd to members of the univ.: anthropol (curator, Pitt Rivers Museum, Oxford); educn (dir, Dept of Educn, 15 Norham Gardens, Oxford, for vacation course, see below); econ, econ. & pol. sci. (sec. of faculties, Univ Registry, Oxford); pub. & soc admin (Dept of Social & Admin Studies, Barnett House, Oxford); for. (prof. of for, Imperial Forestry Inst, Oxford); compar philol. (prof. of compar philol., Worcester Coll., Oxford).

The certs in physical anthropol and in cultural anthropol. (curator, Pitt Rivers Museum, Oxford), and in fine art (normally 4 years, Ruskin Master of Drawing, Ashmolean museum) are also not confined to members of the univ.

POSTGRADUATE COURSES NOT LEADING TO A QUALIFICATION are not provided.

RESEARCH There are facilities for postgrad. res. in most fields of study in the univ., some information may be found above under *Higher Degrees, Diplomas, Certificates, etc., Libraries, Laboratories, Museums*. Full particulars are published in the booklet 'Facilities for Advanced Study and Research', available from the head clerk, Univ Registry, Oxford, price 1s. (post paid).

Some details of recent res. activities are given in the annual reports of various univ. depts publd in the *Univ. Gazette* from time to time.

STUDY LEAVE The visitatorial bd is empowered, subject in certain cases to the approval of congregation, to grant sabbatical leave for one term in respect of every 6 completed terms of service.

FEES Details of fees payable by students vary considerably from coll to coll, and according to the subject studied and to whether the student is living in coll or lodgings. The student's average total expenditure (including personal expenditure) for the 24 weeks of residence is, at the time of writing (Sept 1961), and subject to the variations mentioned and to changes made from time to time in the various items of expenditure, about £435 for an arts course or £540 for a sci course. Further particulars may be found in the *Handbook to the Univ. of Oxford* (see 'Publications', below).

ACADEMIC YEAR The academic year comprises 3 terms each of 8 wks, with vacations of 6 wks each at Christmas and Easter and of 16 (or sometimes 17) in the summer. Terms for 1962-63 Oct 14-Dec. 8, Jan 20-March 16; April 28-June 22.

ADULT EDUCATION (see also 'Teaching Staff', above) The Delegacy for Extra-Mural Studies is concerned with the promotion of the liberal studies of adults, through classes and courses, principally in Oxfordshire, Berkshire and Buckinghamshire, Kent and E. Sussex. In all areas the delegacy co-operates with local educn authorities, with the WEA and with other voluntary organizations. The work is carried on through (a) 3 yr tutorial classes; (b) preparatory tutorial classes, of 1 yr's duration; (c) univ sessional classes; (d) univ extension lecture courses; (e) residential summer schs, incl vac courses for overseas grad students; (f) shorter residential courses; and (g) courses of comparable standard for members of H.M. forces. The delegacy co-operates also with the Y.M.C.A. residential coll at Kingsgate, Kent. The delegacy has full-time tutors and lectrs, resident in the areas covered by the univ's extra-mural activities. On the recommendation of the delegacy, adult students may be exempted from the univ normal entrance requirements.

Address: Rewley House, Wellington Sq., Oxford (tel. 57203).

See also 'Ruskin College' and 'Catholic Workers' College' (p 1156).

VACATION COURSES Courses are held by the dept of educn (15 Norham Gardens, tel. 58631) usually in July and August, either as short courses for sp groups, or as refresher courses for teachers of experience, suitable also as an introduction to the more general study of educnl questions (open to men and women).

A summer school for young business executives is also held, originating in the intention to provide a course for business executives aged 27-33 marked out by their firms as likely to reach sr managerial positions. The univ appts cttee (see below) is responsible to the univ for the scheme (but not for the contents of the courses nor for the method of teaching).

Several vacation courses are held by the delegacy for extra-mural studies (see above). These include (a) a summer sch mainly for WEA students, and (b) a 6-week summer sch. for over-

seas and British students (grad or sr undergrad) in some aspect of English hist and lit.

PRINCIPAL OPEN AWARDS. The only awards offered by the univ. to students wishing to read for a 1st degree are the Squire scholrs in theol and the Davis scholr in Chinese; these are tenable at any coll but do not of themselves carry admission to a coll; numerous entrance awards are, however, offered by the colls themselves. Details of all these awards are published annually in June in 2 sp scholr numbers (one for men and one for women) of the *University Gazette*, obtainable from the Univ Press Depot, 116 High St, Oxford.

POSTGRADUATE AWARDS open to grads of other univs, see p 808.

RHODES SCHOLARSHIPS were founded in 1902 under the will of the late Cecil John Rhodes. Their value is £750 a yr each. They are tenable for 2 yrs in the first instance at Oxford Univ.; and for a third, if it is eminently in the interests of a scholar's immediate studies and future career, either in Oxford or, in rare cases, elsewhere, but not in the country of the scholar's origin.

In his will, Mr Rhodes expressed the wish that 'in the election of a student to a scholarship regard shall be had to his literary and scholastic attainments; his fondness for and success in manly outdoor sports, such as cricket, football, and the like, his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindness, unselfishness, and fellowship, and his exhibition during schooldays of moral force of character, and of instincts to lead and to take an interest in his school-mates'. The conditions of the competition in each country or community are fixed from time to time by the trustees.

Approx 37 scholrs are assigned annually to the British Commonwealth and South Africa as follows: Australia, 6 (1 for each state); Bermuda, 1; British Caribbean, 1 (every 3rd yr. from 1961); Canada, 11 (2 each for Ontario and Quebec and 1 each for the other provinces); Ceylon, 1 (every 3rd yr from 1958); Ghana, 1 (every 3rd yr from 1959); India, 2; Jamaica, 1; Malta, 1; Malaya, 1 (every 3rd yr from 1960); New Zealand, 2; Nigeria, 1 (every 3rd yr from 1961); Pakistan, 1; Rhodesia, 3; South Africa, 8 or 9 (1 each for Cape Province, Natal, Orange Free State and Transvaal, and 1 every alternate yr for Eastern Province, and 1 each for the following 4 schs: Diocesan Coll, Rondebosch, Paul Roos Gymnasium, Stellenbosch, St Andrew's Coll, Grahamstown, and South African Coll Sch, Cape Town).

32 scholrs are assigned annually to the U.S.A.—4 to each of 8 districts, awarded among candidates sent forward from each state, of which there are normally six in the district. *The American Oxonian*, the official magazine of the Alumni Asscn of American Rhodes Scholars, is published quarterly.

Candidates for Rhodes scholrs must be be-

tween 19 and 25 yrs of age and unmarried. They must be citizens of the country from which they come, usually with 5 yrs' domicile, and except in a few sp cases must have at least 2 yrs' standing at a regular degree-granting coll or univ

Since the scheme was inaugurated, 3434 Rhodes Scholars have been elected. In the year 1960-61, 175 Rhodes scholars were in residence, 97 from the British Commonwealth and 78 from the U.S.A.

Sec. to the Rhodes Trustees and Warden of Rhodes House, Oxford—E T Williams, CB, CBE, DSO, MA, FRHistS (tel. 55745; telegrams Rhostrust, Oxford) *Local secs:* *Australia*—Sir George Paton, Univ. of Melbourne, Parkville, N.2, Victoria. *Bermuda*—H C Butterfield, Esq., c/o Bank of N T. Butterfield & Son, Ltd, Hamilton. *British Caribbean*—H L Wynter, Esq., Univ. Coll of the West Indies, Kingston, 7, Jamaica. *Canada*—Hon D. R. Michener, QC, MP, 5 Rosedale Rd., Toronto, 5. *Ceylon*—P H G Gibbs, Esq., 154 Galle Rd, Colombo, 3. *Ghana*—M Dowuona, Esq., MBE, c/o Univ of Ghana, Legon, Accra. *India*—Rev W. A. W. Jarvis, St Stephen's Coll, Delhi, 8. *Jamaica*—H. L. Wynter, Esq., Univ Coll of the West Indies, Kingston, 7. *Malta*—Prof J A. Manché, Royal Univ of Malta, Valletta. *Malaya*—W G T Miller, Esq., c/o Australian High Commission, 44 Ampang Rd, Kuala Lumpur. *New Zealand*—Hon Mr Justice Haslam, c/o Univ of New Zealand, Wellington, C.1. *Nigeria*—Rev F. Foulkes, c/o Registrar, Univ Coll, Ibadan. *Pakistan*—Hon Mr Justice J Ortheeson, CBE, 4 Club Rd., Lahore. *Rhodesia*—C P J Lewis, Esq., Barclays Bank Bldg, 59 Manica Rd, Salisbury. *South Africa*—A H. Gie, Esq., Permanent Bldgs, Darling St, Cape Town. *U.S.A.*—President C Smith, Swarthmore Coll., Swarthmore, Pa

APPOINTMENTS COMMITTEE The cttee. deals with appts. of all kinds, and has reps and correspondents in all colls, and co-opted members from industry, etc. For staff, see 'Admin and Other Staff', above. Address: 41 St. Giles, Oxford. Telegrams: Appointments, Oxford Tel. 59295.

In 1960, 1068 permanent appts were obtained, incl: govt, 112, educn., 401, comm and industry, 489; misc, 66. In the same year 62 temp. appts. were obtained.

GRADUATE ASSOCIATIONS. The Oxford Soc, which is open to all members of the univ, was founded in 1932 with the object of establishing a corporate fellowship of Oxford men and women. It issues twice yrly a magazine (*Oxford*) giving news of events and developments in the univ and the colls, has a widespread branch organization which enables local members to meet each other, makes grants to young grads and undergrads in need and to bodies (such as the Oxford Preservation Trust) which are concerned with matters of common interest to members, organizes tours of industry for the benefit of undergrads who intend to make their careers in industry or comm. Sec

Mrs Daphne M M Lennie, MA, 18 Museum Rd., Oxford (tel. Oxford 59345)

Halifax House was established in 1950 as a hostel, club and social centre for grad students, sr. members of the univ engaged in res., teaching or admin in the univ, and visitors from overseas temporarily in Oxford for advanced study. Warden Janet G Anderson, Halifax House, 6 & 7 South Parks Rd, Oxford (tel. Oxford 598981)

STUDENT RESIDENCES Students are accommodated either in the colls or in lodgings which the students themselves find. Each lodging must be approved by the univ, which maintains a lodgings delegacy which helps students to find accomm. Sec. A W Davies, [Magd], MA, 18 Keble Rd., Oxford (tel. Oxford 57900).

STAFF RESIDENCES Colls normally provide accomm (either in or out of coll.) for some members of their staffs. In addition, the univ lets accomm, as available, to members of its staff

UNIVERSITY MILITARY AND AIR FORMATIONS The Oxford univ officers trg corps (with which is included a women's royal army corps sub-unit) and the Oxford univ. air squadron provide trg mainly for students wishing to take up permanent commissions in the army or the air force or for those who have completed their national service and wish to continue trg. The H Q of each is in Manor Rd, Oxford (tel. army—Oxford 42488; air force—Oxford 44634)

The general supervision of all military trg in the univ. is under the control of the delegacy for military instrcn (consisting of the vice-chancellor, the proctors, 5 officers of the univ. units, the Chichele prof. of the hist of war, a person apptd by the army council, a person apptd by the air council, and 3 members of convocation). The delegacy also supervises the exam in military hist., which is part of the pass sch.

There is no naval formation in the univ.

STUDENT HEALTH SERVICE There is no comprehensive health service administered by the univ. Most (if not all) colls, however, have arrangements with a doctor for the treatment of members of the coll and with a nurse to attend at stated times for treatment of minor ailments. In addition, a mass-radiography scheme is organized for the benefit of all members and staff of the univ

STUDENTS' REPRESENTATIVE COUNCIL There is no students' rep council for the univ. Within each coll, however, there is an informal student organization concerned with matters (other than academic) of common interest to undergrad members of the coll

STUDENTS' UNION The Oxford Union Soc is open to all male members of the univ. In addition to functioning as a debating soc. it has a lending library, restaurant and rooms for social activities. Its premises are in St Michael's St., Oxford (tel. Oxford 41353)

THE OXFORD AND CAMBRIDGE SCHOOLS EXAMINATION BOARD examines or inspects and reports

on the work of schools which provide educn of the highest grade. It holds exams in summer and autumn and awards a General Cert of Educn., which qualifies the holder, under certain conditions, for entrance to univs and exempts from the prelim exams. of various professional bodies, etc. Its exams are held at schools in the British Isles, the Middle East, the West Indies, British Guiana, Natal and Rhodesia. The bd publishes *Regulations* (2s 6d, post free from the Cambridge Univ Press—for addresses, see below), lists of successful candidates and papers of the G.C.E. exam. Oxford sec G J R Potter, [Ch Ch.], OBE, MA, 74 High St. (tel 43549)

THE OXFORD DELEGACY OF LOCAL EXAMINATIONS holds exams. and awards a General Cert. of Educn., which qualifies the holder, under certain conditions, for entrance to univs. Its exams are held in summer and autumn at centres in Gt Britain, N Ireland, Malta and certain other overseas centres. The delegacy publishes *Regulations* (2s post free from the sec). Candidates for the exams need not be in attendance at any educnl institution, but except under certain conditions may not enter below a certain age limit. Sec C. W Stokes, [Jes], MA, 12 Merton St. (tel 48647)

PUBLICATIONS *General Information* pamphlet (free), giving information on method of applicn., admission requirements, entrance scholps., expenses, exams, degrees, dipls. and certs.; *Fachstudien für Advanced Study and Research* pamphlet (1s., post paid), giving details of dipls. and higher degrees open to grads of other univs, are obtainable from the head clerk, Univ Registry, Oxford

Oxford Univ Calendar (about Jan., 21s net) includes lists of univ. officers, bds and ctees, teaching staff; institutions, fellowships, scholps. and prizes; members of colls, halls and socs; and class and honour lists from 1951 (Earlier honours are listed in the *Historical Register* (o/p) and in the *Supplements* to it for 1901-30 (7s 6d net) and 1931-50 (10s 6d. net)) *Handbook to the Univ. of Oxford* (about June, 15s. net) describes the univ's hist, archit, constitution, courses of study, res. facilities, libraries, labs., museums, tutorial system, coll. life, sports, etc, with some information on degrees, dipls, certs, etc *Exam Statutes* (Sept, 5s, by post 5s 10d.) *Statuta et Decreta Universitatis Oxoniensis* (Oct., 18s net) *Pocket Diary* for academic yr (Oct., 7s. 4d. by post 7s 7d., with pencil, 1s 10d extra). *Resident Members* with addresses (Oct., 8s 6d., by post 9s.).

DEPARTMENTAL TELEPHONE NUMBERS (Oxford exchange in each case)

Agrarian Affairs, Inst of	43256	Geography	41044	Nuffield Dept of Plastic	
Agricultural Economics,		Geology	55855	Surgery	64841
Inst. for Res in	57775	(Prof)	55792	Nuffield Dept of Surgery	49891
Agricultural Field Stn	47359	Halifax House	598981	Nuffield Inst for Med Res.	49621
(Field Lab)	47368	History of Art (Prof)	57262	Observatory	59878
Agriculture	57245	History Fac Library	43395	Officers Training Corps	42488
Air Squadron	44654	Hist of Sci. Museum of	43997	Ornithology, Field (E Grey	
Appointments Cttee	59295	Hope Dept of Entomology	57527	Inst of)	47826
Archaeol Res Lab	55211	Human Anatomy	56886	Oxford & Cambridge	
Archaeol, European (Prof)	58850	Indian Inst	43714	Schools Exam. Bd	43549
Ashmolean Museum	57522	Inorganic Chem. Lab	57387	Oxford Society	59345
Barnett Library	55935	Land Agent	57212	Parks, Curators of	59880
Biochemistry	59214	Local Exams Offices	48647	Pathol, Sir Wm Dunn	
Biometry Unit	58682	Lodgings, Delegacy of	57900	Sch of	57321
Bodleian Library	44675	Maison Française	57666	Pharmacology	57062
New Library	47935	Marshal and Police	42026	Physical Chemical Lab.	57536
Botanical Garden	42737	Mathematical Inst	55464	Physiology	57451
Botany	57857	Medical Sch	41021	Pitt Rivers Museum	57467
Bureau of Animal Popula-		Medicine, Regius Prof of	53207	Proctors' Office	42026
tion	44261	Metallurgy	57442	Queen Elizabeth House	59000
Chest Office	48491	Microbiol Unit, Biochem-		Radcliffe Science Library	55004
Clarendon Lab	59291	istry Dept		Registrar & Sec of Facs	48491
Commonwealth Studies,		Mineralogy	55740	Rhodes House	55745
Inst. of	57441	Museum, Univ	55835	Rhodes Trust	57103
Computing Lab	57455	Musie, Fac of	47069	Roman Empire, Archaeology	
Crystallography	57543	Nuffield Dept of	57467	of (Prof)	58850
Dyson Perrins Lab.		Anaesthetics	49891	Ruskin Sch of Drawing	55744
(Organic Chemistry)	574231	Nuffield Dept of Clinical		Social Anthropol, Inst of	55971
(Prof)	57809	Biochemistry	49891	Social Medicine	57243
Education	58641	Nuffield Dept of Medicine	49891	Social & Admin Studies	
Education, Inst of	57501	Nuffield Dept of Obstetrics	49891	Dept	58637
Engineering Science	57527	& Gynaecology	49891	Statistics, Inst of	43221
Entomology	57467	Nuffield Dept of		Surveying	57816
Ethnology	41449	Nuffield Dept of		Surveyor's Office	41654
Examination Schools	53086	Ophthalmology	48996	Taylor Institution	55059
Exper Psychol, Inst of	57493	Nuffield Dept of		University Press	
Extra-Mural Delegacy	59355	Orthopaedic Surgery	64811	(Printing)	57565
Far Eastern Library		Nuffield Dept of Pathology		(Publishing)	57457
Forestry (Imperial Forestry		& Bacteriology	49891	(Showroom)	42913
Inst)	57891			Zoology & Compar Anat.	55278
(Prof)	55757				

Univ Gazette (annual sub £1 + 1s. post free) All the above are obtainable from Oxford Univ Press, Press Rd., Neasden, London, N.W.10

Among other sources of information about the univ are: A. à Wood, *History of the Univ. of Oxford*, 3 vols, 1792-96; A. à Wood, *Athenae Oxonienses* (with *Fasts*), ed. by P. Bliss, 4 vols, 1813-20; J. Foster, *Alumni Oxonienses, 1550-1886*, 8 vols, 1887-92; *The Colleges of Oxford*, ed. by A. Clark, 1891; C. Headlam, *The Story of Oxford*, 1907; Sir C. Mallet, *History of the Univ. of Oxford*, 3 vols, 1924-27; C. R. L. Fletcher, *A Handy Guide to Oxford* (1926); F. P. Barnard & T. Shepard, *Arms and Blazons of the Colleges of Oxford*, 1929; *The Government of Oxford* (OUP, 1931); L. H. D. Buxton & S. Gibson, *Oxford Univ Ceremonies* (1935); *Victoria County History of Oxford*, vol III (1954, £4 4s); D. R. Venables & R. E. Clifford, *Academic Dress of the Univ. of Oxford* (1957, 5s 6d.).

UNIVERSITY PRESS (For staff, see 'Admin and Other Staff', above). The univ press is a dept.

of the univ controlled, through its sec, by a bd consisting of the vice-chancellor, proctors, the representative of the women's colls, and 10 delegates apptd. from members of convocation. Its headquarters are at Oxford, in the Clarendon Press bldg, where are also the publishing dept. responsible for learned books, and the printing works. Books produced at Oxford are distributed by the London publisher and manager, who himself publishes for the univ other classes of less learned books. In addition to these depts., and a paper-mill at Wolvercote, Oxford, the press also owns and controls branches overseas, for the production of books of local interest as well as the sale of those produced in England. The press publishes a *General Catalogue* (5s).

Addresses of publishing depts in England. Oxford: sec to the delegates, Clarendon Press, Oxford (tel. Oxford 57457); London: London publisher and manager, Oxford Univ Press, Amen House, London, E.C.4. (tel. London, City 7701); and of printer to the univ. Univ Press, Oxford (tel.: Oxford 57565)

THE YEAR 1960

PRINCIPAL BENEFACTIONS Various firms and other bodies for new St. Catherine's coll, £485,000 (incl. Coulthurst Trust £50,000 and Rockefeller Foundation £35,700); Canon Jenkins' bequest to Bodleian library; National Foundation for Muscular Dystrophy, \$64,000 for med res; Rockefeller Foundation, \$50,000 for res in biochem; Dartington Hall Trustees, £10,000 for agric res

MAJOR BUILDING DEVELOPMENTS Bldgs approaching completion: pharmacol, biochem & phys. labs and educn dept & inst

NEW DEPARTMENTS AND CHAIRS Chairs of Engl. law and econ.

RETIREMENTS E. R. Dodds (regius prof of Greek); H. H. Plaskett (Savilian prof of astron.); E. G. T. Liddell (Waynflete prof of physiol.); Rev. C. A. Simpson (regius prof. of Hebrew); H. J. Davis (reader in textual crit); J. K. Bostock (reader in German); M. Grunhut (reader in criminol.); A. H. Lloyd (univ demr in for)

DEATHS Lord Halifax (chancellor of univ); Sir E. Barker (hon. fellow of Mert.); E. C. Marchant (fellow of Linc.); C. H. Willkinson (hon. fellow of Worc.); R. W. Chapman (formerly sec of univ press); Sir R. McCarrison (formerly dir. of postgrad med. studies); C. E. D. Peters (formerly sec of appts cttee); J. F. Stenning (formerly warden of Wadh.); Sir H. Tizard (formerly pres of Magd.); Very Rev. Dr. J. Lowe (formerly dean of Ch. Ch.); J. L. Austin (White's prof. of moral philos.); J. F. C. Whitehead (Waynflete prof. of pure maths.); N. Ward-Perkins (fellow of Pemb.); L. Rice-Oxley

(fellow of Keble); F. Waismann (reader in philos. of sci.); R. K. Schofield (reader in soil sci.); D. A. Abernethy (clin. lectr. in surg.); H. V. F. Somerset (emer. fellow of Worc.); J. I. McKie (fellow of Bras.); Lord Somervell of Harrow (fellow of All S. and hon. fellow of Magd.); H. W. Garrod (hon. fellow of Mert.); Sir R. W. Livingstone (formerly pres of Corp.).

HONORARY DEGREES DCL by dipl.—Rt. Hon. M. H. Macmillan, chancellor of the univ DCL—T. S. R. Boase, pres of Magd.; Most Rev. A. M. Ramsey, archbishop of York; Rt. Hon. J. S. B. Lloyd, foreign secretary; Rt. Hon. Earl of Home, sec. of state for Commonwealth relations; Rt. Hon. Visc. Crookshank; Countess of Albemarle; Prof. Sir C. Hinshelwood, pres. of Royal Society; Sir C. Wheeler, pres. of Royal Academy; R. S. Atken, vice-chancellor of Birn; Sir D. L. Keir, master of Ball; F.-M. Sir G. Templer; Sir L. B. Namier, formerly prof. mod. hist. Manc.; Sir J. Wheeler-Bennett, hist. adviser on royal archives; Dame Evelyn Sharp, perm. secretary, min. of housing & local govt.; H. A. Moc, treasurer of assocn. of American Rhodes Scholars DLitt—W. Cohn, formerly dir. of museum of eastern art, Oxford; R. Wellek, Stirling prof. of compar. lit., Yale Univ.; Sir B. S. Ingram, editor, Illustrated London News; B. Snell, formerly prof. of Greek & rector of Hamburg Univ. DSc—N. N. Semenov, prof. of chem. phys., Moscow Academy of Scis; F. Bloch, prof. of phys., Stan.; A. N. Richards, prof. emer. of pharmacol., Penn.; O. Winge, prof. of Carlsberg lab, Copenhagen; E. W. R. Steacie, pres. National Res. Council of Canada DMus—Z. Kodaly, composer

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	7547	—
Women . . .	1258	—
Total	8805	—

Distribution by Faculties *Agric*, 93, *arts*, 4576, *engin*, 167, *med*, 353; *sci*, 1993, *soc studies*, 1623 Total 8805

Included in the figures above are .—

Postgraduate students, 1093

New admissions, 2544.

Students from other countries, 903 (Countries

from which largest numbers came: U.S.A., 281, Australia, 71; S Africa, 68; Canada, 61, India, 57, New Zealand, 35)

DEGREES AWARDED (1959-60) BA, 1940 and 22 incorporations, MA, 1511 and 25 incorporations, BLitt, 46, DLitt, 4, BPhil, 8, DPhil, 139 and 1 incorporation; BCL, 15, BM BCh, 71 and 1 incorporation, DM, 8 and 1 incorporation, MCh, 1; DMus, 1; BSc, 37; DSc, 41

DIPLOMAS AWARDED (1959-60) Agric econ, 7, anthropol, 11, classical archaeol, 1, compar. philol, 1, econ, 4, econ. & pol sci., 38; educn, 83, for, 4, pub & soc admin., 33; stats, 2, theol, 11

CERTIFICATES AWARDED (1959-60) Anthropol., 2, fine art, 13, stats, 5; trg for soc. work, 1

UNIVERSITY OF READING*

Founded 1926; previously established as University Extension College (1892),
Reading College (1898) and University College, Reading (1902)

Postal Address Reading, Berkshire, England

Telephone (Registrar): Reading 81771

VISITOR—H M THE QUEEN

CHANCELLOR—The Rt Hon the LORD BRIDGES, GCB, GCVO, MC, MA Hon DCL *Oxon*, Hon. LLD
Brist, *Lond* & *Camb*, Hon DLitt, FRS

VICE-CHANCELLOR—SIR JOHN WOLFENDEN, CBE, MA *Oxon*.

PRESIDENT OF THE COUNCIL—SIR GEORGE R MOWBRAY, Bt, KBE, MA *Oxon*

TREASURER—Major L M E DENT, DSO

REGISTRAR—J F. JOHNSON, BA

LIBRARIAN—D T. RICHNELL, BA *Camb.*, FLA

BURSAR—E H CARPENTER, FCA

TEACHING STAFF

[†=Part-Time]

Agricultural Botany

Bunting, A H, MSc *Rand*, DPhil *Oxon* Prof
Waldie, J S L, BSc *Edin* †Lectr
Snow, D, PhD *Glas*, BSc(Agric) Lectr
Owen, H., BSc(Agric) PhD Lectr
Cartwright, Phyllis M, BSc PhD *Leeds* Lectr
Jones, J. K, BSc PhD *Manc.* Lectr
Rowley, G D, BSc *Lond.* Lectr
Curnow, R N., BA *Camb*, PhD *Aberd.*

(Biometry) Lectr

Snaydon, R. W, BSc *Wales* Asst. Lectr
Drennan, D. S. H, BSc *Glas.* Asst. Lectr

Agricultural Economics

Thomas, E, CBE, BLitt *Oxon*, BSc *Wales*
Provincial Agric. Economist, Prof
Bisset, G B, BSc *Aberd*, MS *Corn*
Sr. Res. Economist (with title of Sr
Lectr)
Bennett, L. G, PhD Sr Res. Economist
Tuck, R H, MA *Oxon* Lectr
Mills, F. D, BA *Manc.*, MS *Corn* Lectr
Jewell, C A, BSc(Agric) Lectr
8 Res Economists, 1 Res Asst, 1 Hon.
Res Fellow

Agriculture

Duckham, A N., CBE, MA *Camb* Prof
Fox, S, MA *Camb.* Lectr
Dominy, J N
(Surveying & Bldg Construcn) Lectr
Pearce, J., PhD Lectr

Gibb, J A C, MA *Camb.*, MSc *Durh*

(Agric Engin) Lectr

Morris, T R, BSc Lectr
Morgan, K E, BSc *Wales* (Agric Engin.) Lectr
Lloyd, D H., BSc *Wales* Lectr.
Tayler, R. S., BSc(Agric) *Lond* Lectr
Harris, P M, BSc *Leeds* Lectr.
Batting, F M, MA *Camb* (Agric Engin) Lectr.
Allen, D M, PhD *Nott*, BSc Asst Lectr

Art (School of Art)

Betts, J A Prof
Finney, H (Drawing & Painting) Lectr
Ormrod, F (Design) Lectr
Davies, T Barry (Art Educn) Lectr
Redman, H V Lectr
Twyman, M L, BA (Typog., etc) Asst Lectr.
Kellaway, M. H, MA *Camb*
(Sculpture) †Sessl Lectr.
Dilworth, N. (Sculpture) †Sessl Lectr.
Montagu, Jennifer, BA *Oxon*, PhD *Lond.*
(Hist. of Art) †Sessl Lectr.
Barrett, T J, BA †Sessl Lectr

Botany, see also Agric Bot

Harris, T. M, MA ScD *Camb*, BSc *Lond*,
FRS Prof.
Maxted, Miss Barbara, BSc PhD *Lond.* †Lectr
Hors, F B, BA DPhil *Oxon.* Lectr.
Watson, E V, BSc PhD *Edm.* Lectr.
Warren Wilson, J, MA DPhil *Oxon.*
(on leave) Lectr
Wadsworth, R. M, BSc PhD Asst Lectr

* Member of the Association of Universities of the British Commonwealth

Chemistry, see also N I R D (p 1166) and
Physiol Chem
Guggenheim, E A, MA ScD Camb, FRSc, Prof
FRIC
Holt, P F, DIC, BSc PhD Lond, FRIC Reader
Maxted, D R, BSc Lond Sr Lectr.
Halberstadt, E S, BSc PhD Lond Lectr
Prue, J E, MA DPhil Oxon Lectr
McGlashan, M L, MSc N Z, PhD Lectr
Bryce-Smith, D, DSc Lond Lectr
Mills, I M, DPhil Oxon, BSc Lectr
Mills, J., MD Manc Hon. Res. Fellow

Classics
Cormack, J M R, MA Camb. & Aberd Prof.
Williams, R D, MA Camb Sr Lectr.
Creed, J L, MA Camb Lectr
Wardman, A E, MA Camb Lectr
Robertson, F, MA Aberd, BA Camb Lectr
Landels, J G, MA Aberd. & Camb, PhD Hull Lectr
Ure, Mrs Annie D, BA Lond (Greek Archæol) Hon Res Fellow

Dairying
Crossley, E L, BSc Lond, FRIC Prof.
Rothwell, J, BSc(Dairying) Lectr
Benjamin, Margaret I W, BSc(Dairying) Lectr
Scott, R, BSc(Agric) Nott Lectr.
MacKenzie, P K. Sessl. Lectr

Education
Dobinson, C. H, MA Oxon, BSc Lond.
Prof, Dir, Inst of Educn
Mallinson, V., MA Leeds Reader
Armstrong, H., MA Lond, MSc Leeds, MED Durh. Lectr
Fleming, Mary A., MA Lectr
Bentley, A., BA Lectr
Smart, K F, MA Oxon Lectr.
Goldman, R J, BA BD Manc., MA Chic & Berm. Lectr.
Rolls, M J., BSc Lectr
Vowles, V C. D., MA Oxon Lectr.
Taylor, P., BSc PhD Leeds, FRIC Lectr.

English
Gordon, D. J., MA Edn, PhD Camb, FRHistS Prof
Young, Jean I, MA PhD Camb. Reader
Clomoes, P. A. M., BA Lond., PhD Camb. Lectr.
Creighton, T R. M., MA Camb. †Lectr
Brockbank, J. P., MA PhD Camb Sr Lectr.
Fletcher, I. Lectr
Hensisch, Mrs Bridget A, BA Camb, MA Lond Lectr.
Morris, B R, MA Oxon Lectr.
Bolton, W F, AB Bard, AM PhD Prin Lectr
Brown, M D, BA Camb. Lectr
Lucas, W J, BA Asst. Lectr

French
Lehmann, A G., MA DPhil Oxon. Prof
Bowen, R., DU Stras, BA Sr Lectr

Dale, Emily H, BA PhD Lectr
Allix, Georgette Lectr
Holland, M C J, BA Lond Lectr
Goodwin, Pamela J. L., BA Lond †Lectr
Strickland, G R, MA Camb. Lectr
Redfern, W D, BA Camb. Asst. Lectr
Hunt, Mrs Antoinette M., LèsL Lectrice

Geography
Miller, A. A, DSc Lond., Fellow Univ. Coll, Lond. Prof.
Flood, A M, MA Luv Lectr.
Parry, M., BSc Lond, MSc Lectr
Lucas, G R, BA Luv, MA Lectr
Wood, P D, MA Wales, PhD Lectr
Hardy, J. R, BA Camb. Lectr.
Whittow, J B, BA PhD Lectr

Geology
Allen, P., MA Camb, BSc PhD Prof
Walter, Phoebe S, BSc Lond & R'dg Lectr
Sibby, T C F, MA Camb, BSc Lectr
Rose, G N, DFC, BSc Lectr
Goldring, R, BSc PhD Brist. Lectr
Butcher, N E, BSc Sheff Lectr
Allen, J R L, BSc Sheff Lectr.
Lees, A., BA N Staffs, PhD Lectr.

German
Pickering, F P, BA Leeds, PhD Bres Prof
Hamburger, M P. L., MA Oxon Reader
Ievers, S. E., BA Dub Lectr.
Reilly, Pamela M. A., MA PhD N.U.I. Lectr
Menhennet, A, BA Oxon. Lectr
Metzger, A Lektor

History, Modern
Aspinall, A, MA DLitt Manc, FRHistS Prof.
Slade, C. F, BA PhD, FRHistS Sr. Lectr.
Dodwell, Barbara, MA Lond., FRHistS Lectr.
Smith, E A, MA Camb, FRHistS Lectr
Lambert, M. D., MA Oxon Asst Lectr
Owen, N G, BA PhD Lond. Asst. Lectr.

Horticulture
Heath, O V S., DIC, DSc Lond., FRSc Prof.
Barnwell, R., BSc(Hortic) Lectr.
Vince, Daphne (Mrs. Prue), BSc(Hortic) Lond, MS Calif, PhD Lectr.
Harms, Elspeth M., MS Corn, BSc(Hortic) Lectr
Harms, G P., BSc Lond., PhD Manc Lectr
van Emden, H F., BSc Lond Lectr
Case, M. W., BSc(Horti) Lond Asst. Lectr

Italian
Meneghello, L., Dottor Fil Padua Lectr.-in-Charge (Sr. Lectr)
Martindale, Ursula F, MA Camb. †Lectr.
Scott, J. A, MA Oxon Lectr.
Momigliano, Anna L., BA Oxon Asst. Lectr
Marenco, F. Asst. Lectr.

Mathematics

Rado, R, PhD <i>Camb.</i> , DrPhil <i>Berl.</i>	Prof
White, P., MA PhD <i>Camb</i>	Sr Lectr
Rees, Mary R., MSc <i>Lev.</i> , PhD <i>Belf</i>	Lectr.
Dresel, L. A. G., MA PhD <i>Camb</i>	Lectr
Parsons, D. H., MA DPhil <i>Oxon</i>	Lectr
Mulner, E. C., MSc <i>Lond.</i>	Lectr
Daykin, D. E., MSc PhD	Lectr
Osborne, M. R., BA <i>Melb</i>	Asst. Lectr

Microbiology

Knight, B. C. J. G., DSc <i>Lond.</i>	Prof.
Shattock, P. M. Frances, BSc <i>Edm.</i> , PhD	Reader
Rhodes, Muriel E., BSc <i>Lond.</i> , PhD	Lectr.
Zatman, L. J., BSc PhD <i>Lond</i>	Lectr
Keddie, R. M., BSc PhD <i>Edm</i>	Lectr
Charles, H. P., MA <i>Lond.</i> , PhD <i>Manc</i>	Lectr.
Billing, Eve, PhD <i>Manc.</i> , BSc (Dairying)	Lectr
Heydemann, M. T., BA <i>Camb</i>	Lectr
Park, R. W. A., BSc PhD <i>Birm</i>	Lectr
Granger, J. M., BSc <i>Birm</i>	Asst. Lectr

Music

Woodham, R. E., BA DMus <i>Oxon.</i> , FRCO	Prof
Taylor, E., MA DMus <i>Oxon.</i>	Lectr
7 Teachers	

Philosophy

Hodges, H. A., MA DPhil <i>Oxon</i>	Prof.
Parkinson, G. H. R., MA DPhil <i>Oxon</i>	Lectr.
Lampel, Clare, BA <i>Tor.</i> , MA <i>Chic.</i> , PhD <i>Col</i>	Asst Lectr

Physics, see also N.I.R.D., below

Ditchburn, R. W., BSc <i>Lev.</i> , MA PhD <i>Camb.</i>	
	Prof, Hd of Dept
Mitchell, E. W. J., MSc <i>Sheff.</i> , PhD <i>Brist</i>	
(Phys Prop. of Materials) Prof.	
Rymer, T. B., MA <i>Camb.</i> , PhD <i>Lond.</i>	
FIP	Sr Lectr
Henisch, H. K., BSc PhD	Lectr.
Robinson, K., BSc <i>Leeds</i> , PhD <i>Leeds & Camb</i>	Lectr.
Fender, D. H., BSc PhD	Lectr.
Power Steele, E. Joyce, BA MSc <i>Dub.</i>	† Lectr
Banbury, P. C., MA <i>Oxon.</i> , PhD	Lectr.
Clark, C. D., BSc PhD	Lectr.
Faulkner, E. A., MA <i>Oxon</i>	Lectr.
Evans, B. L., BSc <i>Brist.</i> , PhD <i>Camb.</i>	Lectr.
Opik, U., BSc PhD <i>Belf.</i> (Theoret. P)	Lectr
Evans, T., BSc PhD <i>Brist</i>	Lectr.
Smith, S. D., BSc <i>Brist.</i> , PhD	Lectr.
Tomlin, D. H., BSc PhD <i>Lond.</i>	Res Physicist
Bastin, J. A., BA <i>Oxon.</i> , PhD <i>Lond.</i>	
1 Asst, 2 Res Fellows	

Physiological Chemistry

Tyler, C., DSc <i>Leeds</i> , FRIC	Prof
Grimbleby, F. H., BSc <i>Leeds</i> , PhD	Sr Lectr.
Wild, A., BSc <i>Leeds</i> , PhD	Lectr
Taylor, T. G., MA <i>Camb.</i> , PhD	Lectr
Hassall, K. A., BSc <i>Lond & R'dg</i> , PhD	Lectr.

Moore, J. H., BSc <i>Wales</i> , PhD	Lectr
Balch, D. A., BSc (Agric) PhD	Lectr.
Hill, R., BSc (Agric) PhD	Lectr.
Payne, D., MA <i>Camb</i>	Lectr.
Stratmann, C. J., BSc PhD <i>Melb</i>	Lectr
Lakin, A. L., BSc	Lectr.
Woodward, J. D., BSc PhD <i>Birm</i>	Lectr.
Geake, F. H., MSc <i>Brist.</i>	Hon. Res. Fellow

Political Economy

Campbell, P. W., MA <i>Oxon.</i>	Prof.
Budden, E. S., MA DPhil <i>Oxon.</i>	Sr Lectr
Carr, J. L., BSc (Econ) <i>Lond</i> (on leave)	Lectr
Samsbury, K. A. F., MA BPhil <i>Oxon</i>	Lectr.
Cahill, Moya K., LLB <i>Belf</i>	† Lectr
Laslett, Barbara E., BSc (Econ) <i>Lond</i>	† Lectr
Harrison, A. J., BA <i>Oxon</i>	Asst. Lectr
Brand, J. A., MA <i>Aberd</i>	Asst. Lectr

Psychology

Vernon, Magdalen D., MA ScD <i>Camb.</i> , FBP&S	Prof.
Elithorn, A., MA MD <i>Camb.</i> , DPM <i>Lond.</i> , MRCP (Psychopathol)	† Lectr
Wallace, G. K., BSc PhD <i>St And.</i> (Physiol. P.)	Lectr
Davis, R., MA DPhil <i>Oxon</i>	Lectr.
Singer, B. R., BSc <i>Lond</i>	Lectr.

Veterinary Hygiene

Male, N. P., BSc <i>Edm</i>	Lectr.
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Veterinary Science

Barron, N. S., BSc <i>Lond.</i> , PhD	Vet Surgeon
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Zoology

Graham, A., MA BSc <i>Edin.</i> , DSc <i>Lond</i>	Prof
Fretter, Vera, PhD DSc <i>Lond.</i>	Reader
Crichton, M. I., BSc <i>Edin.</i> , PhD	Lectr
Mann, K. H., BSc <i>Lond.</i> , PhD	Lectr.
Williams, G., BSc	Lectr
Hardy, M. G., BA <i>Oxon</i>	Lectr
Bryce, D., BSc <i>Manc.</i> , PhD <i>Sheff.</i>	Asst. Lectr.
Johnson, Elizabeth (Mrs. Moore), BSc PhD <i>Sheff.</i>	Asst. Lectr
White, Kathleen M., MSc PhD	
	Hon Res Fellow

NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING

(see also p 1167)

Prof. R. G. Baskett, OBE, MSc, FRIC	Dir
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Bacteriology

Cuthbert, W. A., MSc <i>Leeds</i>	Head
Neave, F. K., BSA <i>Tor</i>	
Sharpe, M. Elisabeth, BSc <i>Lond.</i> , PhD	
Garvie, Ellen I., BSc PhD <i>Lond</i>	
1 Hon. Res Fellow, 11 Assts.	

Chemical Microbiology

Berndge, N. J., DSc <i>Birm.</i>	Head
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Mabbitt, L. A., BSc Lond, PhD Edin
 Cheeseman, G. C., BSc PhD
 3 Assts

Chemistry

Rowland, S. J., BSc(Agric) PhD, FRIC
 Aschaffenburg, R., PhD Cologne
 6 Assts

Dairy (Experimental)

Chapman, Helen R
 2 Assts

Dairy Husbandry

Foot, A. S., MSc
 Braude, R., DSc
 Dodd, F. H., BSc(Agric) PhD
 Mitchell, K. G., BSc(Agric) PhD
 Lane, C., BSc(Agric)
 Murdoch, J. C., BSc Glas, PhD Edin.
 8 Assts

Engineering

Hall, H. S., BSc(Agric)
 Thiel, C. C., BSc(Agric) W Aust, PhD
 Burton, H., BEng Sheff, MSc
 Suffolk, S. F., BSc Lond
 Budd, R. T., BSc Burn
 Hoyle, J. B., MA Camb.
 5 Assts

Feeding and Metabolism

Balch, C. C., BSc(Agric) PhD
 Roy, J. H. B., MA Camb, PhD
 6 Assts.

Nutrition

Kon, S. K., PhD Warsaw, DSc, FRIC

Henry, Kathleen M., BSc Lond. & N U I.,
 PhD Aberd, FRIC
 Thompson, S. Y., DSc
 Porter, J. W. G., MA PhD Camb
 Goodwin, Mrs. Marie E., PhD
 Harrison, G. F.
 Ford, J. E., BSc Leeds, PhD
 Gregory, Margaret E., MSc Manc, PhD
 Fisher, L. R., BSc PhD Lond
 1 Hon. Res. Fellow, 1 Hon. Res. Asst.,
 11 Assts

Physics

Blair, G. W. S., MA Oxon, DSc Lond,
 FRIC, FIP
 Glover, F. A., BSc Lond
 Prentice, J. H., BSc Lond
 Phipps, L. W., BSc Lond
 1 Asst.

Physiology

Folley, S. J., DSc Manc, FRS
 Cowie, A. T., BSc Edin, PhD
 Benson, G. K., BSc Liv., PhD
 Pope, G. S., DPhil Oxon, BSc
 1 Hon. Res. Fellow, 6 Assts

Radiobiology

Glascok, R. F., BSc PhD Lond
 6 Assts

Statistics

Cox, C. P., MA Oxon
 1 Asst

UNIVERSITY EXTENSION

Kon, S. K., PhD Warsaw, DSc, FRIC 14 Tutors†

ADMINISTRATIVE AND OTHER STAFF

Asst Registrars · A. A. H. Butters, MA Oxon.,
 H. E. Bell, MA Sheff Accountant W. G.
 Lowe, Keeper, Museum of English Rural Life ·
 C. A. Jewell, BSc Sec, Fac of Agric. J. W.
 Bee, MA Camb Sec, Fac of Sci. T. C. F.
 Sibly, MA Camb, BSc Sec, Fac of Letters.
 Barbara E. Laslett, BSc(Econ) Lond Sec, Appts.
 Cttee. * Mrs. Elizabeth Goodwin, MA Oxon
 Sec., Inst of Educon. W. B. Crouch, BA Belf
 Asst. Bursar R. G. Eaton, BA Oxon Bldgs
 Officer A. Barrow. Physicist in charge of Radio
 Tracer Unit & Univ. Radiation Protection Officer:
 D. H. Tomlin, DIC, BSc PhD Lond

WARDENS OF HALLS OF RESIDENCE. J. S. L.
 Waldie, BSc Edin (Wantage Hall), ... (St.
 Patrick's Hall); V. Mallinson, MA Leeds (White-
 knights Park House), Ursula F. Martindale, MA
 Camb (St. Andrew's Hall); E. Joyce Power
 Steele, BA MSc Dub (Wessex Hall); Moya K.
 Cahill, LLB Belf. (St. George's Hall), Pamela
 J. L. Goodwin, BA Lond (Mansfield Hall); E. V.
 Watson, BSc PhD Edin; Margaret D. Fuller,
 MA (Asst Warden Margaret I. W. Benjamin,
 BSc(Dairying)) (St. David's Hall).

CONSTITUENT INSTITUTION

NATIONAL INSTITUTE FOR RESEARCH IN DAIRY-
 ING, Shinfield, nr. Reading (tel. · Reading 83103),
 established by Ministry of Agric & Fisheries in 1912,
 forms part of univ. It is governed by a bd
 consisting of reps. of Ministries of Agric and

Health, Royal Agric. Soc. of England, British
 Dairy Farmers' Assocn., Nat. Farmers' Union,
 etc. Dir.—Prof. R. G. Baskett, OBE, MSc,
 FRIC. See also pp. 1166-1167

GENERAL INFORMATION

A univ. extension coll. was opened at Reading in 1892, it was based upon the local Oxford Univ. extension centre and the local schs. of sci. and art, and derived its first impetus largely from Christ Church, Oxford. In 1902 it established a claim to a state grant as a univ. coll. In 1904 and 1905 it received endowments of land and money from the Palmer family. Wantage Hall, endowed by Lady Wantage, was built in 1908 as a residence for men students, the declared policy of the council being to make residence in a hall the rule and not the exception. An endowment fund of £200,000 was subscribed in 1911 by the benefactors already mentioned. The univ. was established by royal charter on March 17, 1926.

Various developments call for special notice. One is the establishment, in connexion with the coll. and univ., of the Natl. Inst. for Res. in Dairying. Another is the bldg. and endowment of the library, the costs of which were defrayed by Mr. Alfred Palmer and members of his family, the bldg. constitutes a memorial to the late Rt. Hon. George William Palmer, one of the chief benefactors of the coll. Residential accomm. has been increased, and the univ. now has 7 halls of residence, 3 for men and 4 for women. Further additions are being planned.

The univ. has steadily grown. Because of the inadequacy of its present site, it acquired in 1947 the freehold of the Whiteknights park estate of nearly 300 acres of parkland (approx. one mile from centre of Reading), to which it is hoped ultimately to transfer the whole univ. At present 2 new bldgs. in the park are in use: the fac. of letters, opened in 1937; and the dept. of phys., opened in March 1950 by Sir George Thomson and named the J. J. Thomson Physical Lab.

CONSTITUTION. The supreme governing body of the univ. is the court, presided over by the chancellor. The executive body is the council, which is composed of academic and lay members, and elects its own chairman. The senate, which consists of all profs. of the univ. and 3 elected members of the academic staff, regulates academic matters; the vice-chancellor is chairman. Facs. are controlled by their own bds., and schs. by their own cottees, subj. to the authority of senate and council.

INCOME (excl. Natl. Inst. for Res. in Dairying) (1959-60). Total income, £819,880 (Treasury grant, 76.9 per cent.; fees, 10.8 per cent.; grants from local authorities, 2.2 per cent.; other sources, 10.1 per cent.).

FACULTIES AND DEANS. *Agric. & hort.*, Prof. C. Tyler (physiol., chem.); *letters*, Prof. A. G. Lehmann (French); *sci.*, Prof. A. Graham (zool.).

SCHOOLS. Art, music.

LIBRARY. 170,000 vols., incl. Overstone collection (7500 vols.) of books on pol. econ. (publ. before 1850), English and French thought during 18th cent., topography (especially Northampton-

shire), and Cole libr. (8000 vols.) of early books on med. and on hist. of zool., 25,000 pamphlets, 1400 periodicals received.

LABORATORIES, FARMS, ETC. Bot., chem., geol., mech., microbiol., phys., psychol., zool. Fine art studios. Sch. of music. Agric. machinery hall, 3 farms (400, 200 and 110 acres) and hort. stn (80 acres).

MUSEUMS. Zool., hist., archaeol., English rural life.

INSTITUTE OF EDUCATION. Establd. in 1948, became a univ. inst. in 1955. *Constituent Institutions.* univ. dept. of educn., univ. dept. of fine art, Bishop Otter Memorial Coll., Chichester, Easthampstead Park Coll.

ADMISSION. See Appendix III.

FIRST DEGREES. BA—hons. courses in philos., psychol., classics, Greek, Latin, Engl., mod. hist., pol. econ., geog., maths., philos., Engl. lit., philos. & German, Greek & Engl. lit., Latin & Engl. lit., econ. & psychol., econ. & soc. philos., music—3 yrs., hons. courses in *French, *German, *Italian, *Italian & French, *French & Italian, *French & German, *German & French, *Latin & French, fine art—4 yrs. (*=incl. 1 yr. abroad). Gen. courses in 3 subs.—3 yrs., hons. may be awarded in final exam. (general).

BSc (fac. of sci.)—special courses in maths., phys., chem., bot., zool., geog., geol., microbiol., psychol.—1 yr. normally taken after gen. course (3 yrs.) in 3 of above subs., hons. may be obtained in either gen. or sp. course.

BSc (fac. of agric.)—pass courses in agric., dairying, hort. —3 yrs., hons. courses in agric. sci., hort. sci., agric., dairying, hort., agric. bot., hort. bot., agric. chem., agric. econ.—3 yrs. (4 yrs. if candidate not given total exemption from inter. exam.).

HIGHER DEGREES. MA, MSc (facs. of sci. and agric.)—2 yrs. from 1st degree, MA (fac. of letters)—2 yrs.' course of instructn. in either mediæv. symbolism & iconography or the gothic revival in Europe, 1750-1830, MAgSc (fac. of agric.)—2 yrs.' course of instructn. in either agric. (in one of 5 sections), avian physiol. & nutrition, soil sci., or agric. econ., award by exam.; MEd—either 2 yrs. (1 yr. full-time, 1 yr. pt.-time) or 3 yrs. (pt.-time). A course of instructn. for grad. serving teachers holding DipEd or cert. in educn. from univ. in Gt. Britain with at least 2 yrs.' teaching experience. Courses begin in Oct. each yr., PhD—3 yrs. from 1st degree (all fcs.) All open to grads. of other univs. DLitt, DSc.

The univ. does not award EXTERNAL DEGREES.

DIPLOMAS. 3 yrs.—fine art; 1 yr. (or 2 yrs. pt.-time)—rural educn. (for serving teachers), and 1 yr. (postgrad.)—agric. (can be taken in 1 of 5 sections: animal husb., crop husb., poultry husb., farm management & orgn., farm mechanization), agric. econ., educn., technical phys.

RESEARCH Res. facilities available in all depts of univ. A res. bd. administers funds entrusted to it for res. purposes, issues an annual record and report, and publishes *Abstracts of Theses* annually.

FEES *Annual composition fees* (covering registration, matric, tuition, exam and graduation, but not students' union sub. and various minor fees). Bachelor's degrees: BA (other than music), £50, BA in music (incl. lessons on one instrument), £62; BSc (fac. of sci., fac. of agric. & hort.), £66, BSc (agric. econ.), £60. Higher degrees: PhD, MSc (without lab. facilities), £30, PhD, MSc (with lab. facilities), £45 [addnl. fees for materials and apparatus may be charged in depts. of chem. and agric. chem.], MA, £30. Dipls.: fine art, £50, art teacher's dipl., £60, educ. (postgrad.), £66, technical phys. (postgrad.), £60; landscape archit., £50, advanced landscape archit., £60, agric., hort., agric. chem., agric. econ. (all postgrad.), £66. Students' union sub. (compulsory), £6 6s p.a. Students from overseas may be required to pay a deposit of £25 on admission.

EXPENSES Total average necessary expenses for academic yr. (excl. travelling, clothing and personal laundry) about £240, namely: (i) composition fee and cap and gown, £64 for a degree student, (ii) maintenance, incl. board and lodging in halls or lodgings and sanatorium fee, max. for 30 weeks about £158 for either man or woman student; (iii) personal, incl. sub. to union (£6 6s p.a.), and cost of books and stationery, widely variable, say £18 p.a.

ACADEMIC YEAR Oct.-early July 3 terms, each 10 wks, first beginning on 1st Friday in Oct. Vacs. of 4 wks at Christmas and 5 wks at Easter.

ADULT EDUCATION Tutorial classes held in conjunction with W.E.A.

POSTGRADUATE AWARDS open to grads. of other univs.: see p. 808.

APPOINTMENTS COMMITTEE. Provides information and advice about posts.

GRADUATES' ASSOCIATION Old students' assoc. meets annually at univ. at Whitsun.

STUDENT RESIDENCES All students following full courses of day study, unless residing with parents or guardians, are ordinarily required to reside in a univ. hall of residence. (For wards, see 'Admin. and Other Staff', above, for fees, see 'Expenses', above). For men: Wantage Hall, Upper Redlands Rd., 127 students (tel. R'dg 81198), St. Patrick's Hall, Northcourt Ave., 294 students (tel. R'dg 81583), Whiteknights Park House, 46 students (tel. R'dg. 81782). For women: St. Andrew's Hall, Redlands Rd., 142 students (tel. R'dg. 82269); Wessex Hall, Redlands Rd., 104 students (tel. R'dg. 82266), St. George's Hall, Elmhurst Rd., 83 students (tel. R'dg. 81528), Mansfield Hall, Kendrick Rd., 120 students (tel. R'dg. 81431). Full-time day students living in approved lodgings, or at home in or near Reading, are associated in St. David's Hall, a non-residential club.

STUDENT ORGANIZATIONS Students' union and representative council.

STUDENT ATHLETIC FACILITIES Gymnasium, athletic grounds, squash courts, rowing facilities.

PUBLICATIONS *Calendar* (Sept.), 5s., *University Gazette*; *General Prospectus* (illustrated); *Prospectus* (degree and dipl. courses, fac. of letters, fac. of sci., fac. of agric., incl. landscape archit., educ., fine art, music); *Making a University. an Account of the University Movement at Reading*, by W. M. Childs (Dent, 1933); *A History of Whiteknights*, by E. Smith (Museum of Engl. Rural Life, Univ. of Reading, 1957).

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS Bldgs. completed: Dept. of phys. (J. J. Thomson phys. lab.), extn. to St. Patrick's Hall (men's hall of residence).

NEW DEPARTMENTS AND CHAIRS Dept. of Italian; chair of phys. prop. of materials.

RETIREMENTS H. F. Burgess (sec. Natl. Inst. for Res. in Dairying), Dr. Adela G. Erith (agric. bot.), W. E. Stoneman (curator, Cole Zool. Museum).

RESIGNATIONS Valerie E. Cheke* (dairying), Dr. Margaret E. Chislett (microbiol.), Dr. G. Kreisel (maths), apptd. to chair, Sorbonne; Joan Reffell (warden, Mansfield Hall), Anne Sheppard (dairying), Dr. D. M. Vowles (physiol. psychol.).

DEATHS. M. N. Nicholson (chief advisory officer in agric. chem., southern province, 1939-47,

and lectr. in agric. chem., 1930-39), Dr. Hilda W. Oldham (lectr. in psychol., 1934-46), W. Probert-Jones (teacher in sch. of music, 1923-37), H. G. Robinson (lectr. in agric., 1919-24).

HONORARY DEGREES DSc—H. R. H. The Duke of Edinburgh, Prof. E. H. Åkerberg, dir. Swedish Seed Assocn.; Dr. T. E. Allibone, FRS, dir. Assoc. Electr. Industries res. lab., Aldermaston; Prof. E. W. Crampton, prof. of animal nutrit. and animal hush., McG., C. E. Hubbard, dep. dir., Royal Bot. Gardens, Kew; Academician Prof. I. V. Larin, prof., Leningrad Agric. Inst. and hd., dept. of grassland farming, Bot. Inst., USSR Academy of Sci., Prof. N. F. Mott, FRS, Cavendish prof. of exp. phys., Master of Gonville and Caius Coll., Camb., Prof. F. Seitz, hd. of dept. of phys., Ill., Sir George P. Thomson, master of Corpus Christi Coll., Camb.

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time*
Men	899	51
Women	680	70
Total	1579	121

Distribution by Faculties (full-time). *Agric*, 330, *arts*, 834, *sci*, 415 Total 1579.

Included in the figures above are:—

Postgraduate students, 267.

New admissions, 615

Students from other countries, 139 (Countries from which largest numbers came U.S.A., 11; Germany, 10; Nigeria, 8, Iraq, 7, Egypt, 7; Tanganyika, 7)

DEGREES AWARDED (1959-60) *Agric. & hort* BSc, 85, MSc, 9; PhD, 6 *Arts* BA, 162; MA, 5, PhD, 1 *Sci* BSc, 87, MSc, 3; PhD, 13 Total number of first degrees awarded, 334

DIPLOMAS AWARDED (1959-60). Fine art, 8; landscape archit., 4, postgrad agric., 1, agric. econ, 5; tech phys, 1, educn, 73

* Includes evening students

UNIVERSITY OF SHEFFIELD*

Founded 1905, previously University College, established 1897 by amalgamation of
Firth College (1879), Sheffield Medical School (1828), and Technical School (1886)

Postal Address: Sheffield, 910, England
Cables and Telegrams: University Sheffield
Telephone: Sheffield 27451

VISITOR—H M THE QUEEN

CHANCELLOR—The Rt. Hon. R. A. BUTLER, CH, MA *Camb*, Hon. DCL *Oxon*, Hon. LLD *Nott*,
Brist, *St And*, *Camb*, & *Sheff*.

PRO-CHANCELLORS—G. YOUNG, JP, W. H. OLIVIER, TD, MA *Oxon*, FCA

VICE-CHANCELLOR—J. M. WHITTAKER, MA *Camb*, DSc *Edm*, FRS

PRO-VICE-CHANCELLORS—Professor A. G. QUARRELL, DSc PhD *Lond*, FIP, FIM; Professor H. W.
LAWTON, MA *Wales*, DUParis

TREASURER—A. H. CONNELL, MA LLB

REGISTRAR—A. W. CHAPMAN, OBE, DSc *Lond*, FRIC

BURSAR—R. M. URQUHART, MA *St And*.

LIBRARIAN—J. E. TOLSON, BA *Leeds*, MA *Lev*.

TEACHING STAFF

[†=Part-Time]

Accountancy and Financial Administration

Whittington-Smith, C. A., LL.M., FCA
Sr Lectr in charge of Dept
Hicks, I., BCom *Birm*, FCA Lectr.
Lawson, G. H., MA(Econ) *Durh* Lectr.
Downing, F., FCA (Auditing) †Lectr.
Tranter, A. V., BSc(Econ) PhD *Lond*.
(Taxation) †Lectr.

Page, J. K., BA *Camb*. (Bldg Sci.) Prof
Drought, A. B., BArch *Lev*, MArch *Mass*
Powis, G. J., MA Lectr.
Daykin, A., BA Lectr.
Wragg, R. B., MA Lectr.
Wilson, J. Lectr.
Jenkins, J. M., DipArch *Wales*, BA Lectr.
Jackson, V., BArch *Lev*. Lectr.
Heaf, E. B., DipArch *Lev*. Lectr.
Claridge, R. J. Lectr.
Jenkinson, J. M. M., MA

Anatomy

Davies, F., DSc MD *Lond*, FRCS
A. Jackson Prof
Martin, B. F., BSc MD *Wales* Sr Lectr
King, T. S., MB ChB *Lev* Sr Lectr.
Harris, P. F., MB ChB *Birm* Lectr.
Wilkinson, W. J. C., MB ChB Lectr.
Haigh, G., MB ChB Lectr.
Sparling, C. F. I., MB ChB Demr.
Bradshaw, R. B., MB ChB Demr.
Bullock, J., MB ChB Demr.
Hudson, J. M., MB ChB Demr.
Lloyd, G. J., MB ChB Demr.
Sood, B. K., MB ChB Demr.
Jones, C. D. P., MBE, MB BS *Lond*,
FRCS (Appl A.) †Lectr.
Wilkie, J., MSc MB ChB, FFR
(Radiological A.) †Hon. Lectr

(Profess. Practice) †Lectr.
Clements, M. S., BEng
(Adv Construcn) †Lectr.
Wilby, C. B., BSc PhD *Leeds*
(Adv Construcn) †Lectr

2 Instrs

Bacteriology, see Medicine

Biblical History and Literature

Guilding, Aileen E., MA DPhil *Oxon* Prof.
Payne, D. F., MA *Glas*, BA Asst. Lectr.
Dunstone, A. S., MA BD *Oxon* Asst Lectr.
Bowker, J. W., BA *Oxon*
Sir Henry Stephenson Res. Fellow

Architecture

Needham, J., DipArch *Leeds*, MA, FRIBA Prof.

Biochemistry, see Medicine

Biology, see Bot. and Zool.

* Member of the Association of Universities of the British Commonwealth

Botany

- Clapham, A. R., MA PhD *Camb*, FRS Prof.
 Boswell, J. G., DSc *Lond*
 (Plant Physiol.) Reader
 Webster, J., BSc PhD *Lond* Sr Lectr
 Booth, A., BSc PhD *Manc* Lectr
 Anderson, D. J., BSc *Noit*, PhD *Wales* Asst Lectr
 Woolhouse, H. W., BSc *R'dg*, PhD *Adel* Asst Lectr.

Chemistry

- Haworth, R. D., BSc *Oxon*, DSc PhD *Manc*, FRS, FRIC Firth Prof, Hd of Dept
 Porter, G., BSc *Leeds*, PhD ScD *Camb*, FRIC, FRS (Phys. C) Prof
 Stevens, T. S., BSc *Glas*, DPhil *Oxon* (Org C) Reader
 Lawrence, A. S. C., ScD PhD *Camb* (Colloid C.) Reader
 Lamberton, A. H., BSc PhD *Glas* Sr Lectr
 Tyrrell, H. J. V., MA BSc *Oxon* Sr Lectr
 Wilkins, R. G., DSc PhD *Lond* Sr Lectr
 McKenna, J., MSc PhD *NUI* Sr Lectr
 Wyatt, P. A. H., BSc PhD *Wales* Sr Lectr
 Leisten, J. H. A., BSc PhD *Lond* Lectr
 Tedder, J. M., MA *Camb*, PhD *Burm* Lectr
 Smith, A. J., BSc PhD *Lond* Lectr
 Finan, P. I. A., MSc *NUI*, PhD *Belf* Lectr
 Stevens, B., MA DPhil *Oxon* Lectr
 Haslam, E., BSc PhD Lectr
 Murrell, J. N., BSc *Lond*, PhD *Camb* Lectr
 Kettle, S. F. A., BSc *Leeds*, PhD *Camb* Lectr
 Perkins, P. G., BSc PhD *Noit* Lectr
 Jones, D. N., BSc PhD *Wales* Lectr
 Dixon, R. N., BSc *Lond*, PhD *Camb* Lectr
 Jennings, K. R., BA DPhil *Oxon* Lectr
 Brettell, R., BSc MA DPhil *Oxon* Lectr
 Brocklehurst, B., BSc MA DPhil *Oxon* Lectr
 Jones, R. A. Y., BA *Camb* Asst. Lectr
 Atherton, N. M., BSc PhD *Burm* I C I Res. Fellow

- Osborne, A. D., BSc PhD *Liv*. I C I Res. Fellow
 Stoyles, J. A. R., BSc *Belf*, FRIC Supt, Labs.

Child Health, see Medicine**Classics**

- Crossland, R. A., MA *Camb* & *Yale* (Greek) Prof
 Laughton, E., MA *Oxon* (Latin) Firth Prof
 Hulton, A. O., MA *Oxon* Lectr
 Molyneux, J. H., MA *Camb* Lectr
 Boddington, Ann, BA *Oxon* Lectr
 Rankin, H. D., BA *Dub* Lectr
 Mosley, D. J., BA *Durh* & *Camb* Asst. Lectr.

Dental Surgery, see below**Economics**

- Gilbert, J. C., BCom *Lond* Prof., Hd. of Dept
 Hague, D. G., MCom *Burm* (Appl Econ) Newton Chambers Prof.

- Pollard, S., BSc(Econ) PhD *Lond* (E. Hist.) Sr. Lectr
 Thornhill, W., MSc(Econ) *Lond* (Pol Theory & Instns) Sr Lectr
 McCormick, B. J., MA *Manc*, BA Lectr
 Hawkins, E. K., BSc(Econ) *Lond*, BPhil *Oxon* Lectr
 Kempner, T., BSc(Econ) *Lond* Lectr
 Bowden, P. J., BA PhD *Leeds* (E. Hist.) Lectr.
 Walkland, S. A., MA *St And* (Pol. Theory & Instns) Lectr.
 Livingstone, I., MA *Yale*, BA (Econ Stats) Lectr
 Howe, M., BCom *Leeds* Asst Lectr.
 Bates, R. W., BCom *Burm* Asst Lectr
 Hayward, J. E. S., BSc(Econ) PhD *Lond* (Pol Theory & Instns) Asst Lectr
 Levitt, M. S., BSc(Econ) *Lond* Douglas Knoop Res Fellow
 Blackman, Janet M., BA *Lond* (Econ Hist.) Douglas Knoop Res Fellow

Education

- Armstrong, W. H. G., MA *Camb* Prof
 Halloran, J. H., MA *Leeds* Sr Lectr
 Williams, Eirian M., BSc *Wales* Lectr
 Brown, Nora M., MA *Camb* Lectr
 Jay, L. J., MA *Burm* Lectr
 Fowler, W. S., MA *Oxon* Lectr
 Austwick, K., MSc Lectr
 Mowat, Dorothea M., BSc PhD *Edin* Lectr.
 Batho, G. R., MA *Lond* Lectr
 Pinon, F. B., MA *Camb* Lectr
 Sharples, H., BA *Durh* Asst Lectr.
 Poppleton, Pamela K., BA Asst Lectr.
 6 Supervisors

Engineering, see below**English Language and Literature**

- Empson, W., MA *Camb* (E. Lit.) Prof
 Wilson, R. M., MA *Leeds* (E. Lang.) Prof
 Hamer, D., MC, MA *Liv*, FSA (E. Lit.) Reader
 Berry, F., MA *Ewe* (E. Lit.) Sr. Lectr
 Scott, F. S., MA *MLitt Camb*.
 Roberts, M. A. M., MA *Camb* (E. Lang.) Sr Lectr.
 Mackerness, E. D., MA *Camb*, PhD *Manc* (E. Lit.) Lectr
 Heywood, C., MA *BLitt Oxon*, BA *Stell* (E. Lit.) Lectr.
 Roper, D. S., BA *Durh*, B Litt *Oxon*. (E. Lit.) Lectr
 Smith, Winifred M., MA *Durh* (E. Lang.) Asst Lectr

French

- Lawton, H. W., MA *Wales*, DUParis Prof.
 Lyons, W. H., BA PhD *Dub* Sr Lectr
 Shaw, Marjorie, BA *Lond*, DUParis Lectr
 Blacis, Madeleine, BA *Leeds*, LèsL *Paris* Lectr
 Francis, K. H., BA PhD *Lond* Lectr
 Collier, S. J., BA PhD *Leeds* Lectr
 Short, J. P., BA *Dub* Lectr.

Juden, B V, MA *Manc*
 Courtney, C P, BA *Belf*
 Prius, J, L&L *Paris*
 Tupiner, G R, L&L *Dyon*
 Stengel, Monique, L&L *Stras*
 Marriage, Annie, L&L *Lille*

Lectr.
 Lectr
 Lecteur
 Lecteur
 Lectrice
 Lectrice

Fuel Technology, see Engineering, below

Genetics

Roper, J A, BSc PhD
 Beardmore, J A, BSc PhD
 Blank, C E., BSc MB ChB *Wales*,
 PhD *Lond* (Med G) Lectr
 Dunsford, F I. N., PhD
 (Blood Groups) Hon Lectr

Prof
 Lectr
 Lectr
 Lectr

Geography

Fisher, C A, MA *Camb*
 Garnett, Alice, BA PhD *Lond*
 Maxwell, I S, MA *Camb*.
 Hunt, A J, BA *Lond*
 Savgear, R A, H, BA *Lond* (on leave) Lectr
 Sibbons, J L G, BA BSc *Oxon*
 Straw, A, BA *Not.*
 Lewis, G M, MSc
 Griggs, D B, BA *Camb*
 Coates, B E, BA *Leeds* Temp Asst Lectr.
 Doornkamp, J C, BSc Jr Res Fellow
 Douglas, J N H., BA *Belf* Jr Res Fellow

Prof
 Reader
 Sr Lectr
 Sr Lectr
 Lectr
 Lectr
 Lectr
 Asst Lectr.
 Asst Lectr.
 Jr Res Fellow
 Jr Res Fellow

Geology

Moore, L R., DSc PhD *Brist*, FGS Sorby Prof
 Wilkinson, P., BSc *Lond*, FGS Lectr
 Downie, C, BSc *Glas*, PhD, FGS Lectr
 Humphries, D. W., BSc PhD *Lond*, FGS Lectr.
 Currail, A E., MA DPhil *Oxon*, FGS Lectr
 Love, L G., BSc PhD, FGS (on leave) Lectr
 Brown, P E., BSc PhD *Manc*, FGS Lectr.
 Wagner, R. H., GeolDrs *Lev* Lectr.
 Neves, R, BSc PhD, FGS Lectr
 Sullivan, H J., BSc PhD, FGS Asst Lectr
 Barr, F T, MA *Calif.* Temp Asst Lectr
 Res Asst

German

Mainland, W F, MA *Edin* Prof
 Yuill, W E., MA *Aberd & Lond* Lectr
 Kolisko, Gertrud, DrPhil *Vienna* Lectr.
 Bird, G C, BA *Lond*. Tutor
 Latendou, Marianne Lektorn

Glass Technology, see Engineering, below

History

Potter, G. R., MA PhD *Camb*, FSA (Mod H) Prof
 Hopper, R J, BA *Wales*, PhD *Camb* ? (Anc H) Prof.
 FSA
 Lewis, N B, MA PhD *Manc* (Mediæv H) Prof
 Tyler, J. E., MA *Oxon & Sheff* (Mod H) Reader
 Haley, K H. D., MA BLitt *Oxon*. (Mediæv. & Mod H.) Sr. Lectr

Carr, W., BA *Burm.*, PhD (Mediæv. & Mod. H) Lectr.
 Johnston, Edith M, MA PhD *St. And*
 (on leave) (Mediæv & Mod H) Lectr.
 Boddington, Ann, BA *Oxon*. (Anc H) Lectr.
 Henderson, I, MA *Edin*.
 (Mediæv & Mod. H.) Asst. Lectr.
 Mosley, D J, BA *Durh.* & *Camb*.
 (Anc H) Asst. Lectr
 Armytage, Frances, BA *Smith*, MA
 PhD *Lond*
 (Mediæv & Mod. H.) †Asst. Lectr.
 Smith, R A, MA PhD *Yale*
 (Mediæv & Mod. H) (1961-62) Visiting
 Lectr

Law

Marshall, O. R, MA *Camb.*, PhD *Lond*. Prof
 Wood, J. C., LL.M. *Manc* Sr. Lectr.
 Fridman, G H L., BCL MA *Oxon*,
 LL.M. *Adel* Sr Lectr
 Patchett, K W, LL.M. *Lond* Lectr
 Rideout, R W, LL.B. PhD *Lond* Lectr
 Battersby, G, BA *Oxon* Asst Lectr
 McLean, J D, BA BCL *Oxon* Asst Lectr
 Goode, M A, LL.B. †Lectr
 Dunn, F A J, MA LL.B. *Camb* †Lectr.

Mathematics

Northcott, D. G., MA PhD *Camb*, FRs (Pure M) Town Trust Prof.
 Allen, D N de G, MA *Oxon* (Appl M) Prof
 Mirsky, L, MSc *Lond*, PhD (Pure M) Reader
 Ruston, A F, MA PhD *Camb*
 (Pure M) Sr Lectr
 Cox, R. R S, MA *Camb* (Appl M) Sr. Lectr.
 Blundell, P. H, MA *Camb*
 (Appl M) Sr. Lectr; Dir, Electronic
 Computation Lab.
 Dennis, S C R, BSc PhD *Lond*
 (Appl. M) Sr Lectr.
 Burkill, H, MA *Camb*, PhD (Pure M) Lectr.
 Farahat, H. K, BSc PhD *Wales* (Pure M) Lectr.
 Lederer, G., BSc *Lond*, MSc *R'dg*
 (Pure M) Lectr
 Deas, H D., MSc PhD *Belf* (Appl. M.) Lectr.
 Wardle, S, BSc PhD *Lond* (Appl. M.) Lectr
 Bouine, D E, BSc PhD (Appl M) Lectr
 Chadwick, P, BSc *Manc*, PhD *Camb*
 (Appl M) Lectr.
 Becker, P. R., MA *Edin*. (Appl M.) Lectr.
 Burley, D. M, BSc PhD *Lond*. (Appl M.) Lectr.
 Hewson-Browne, R C, BSc PhD *Lond*.
 (Appl. M) Lectr.

Hutson, V C L, BA PhD *Camb*.
 (Appl. M) Lectr.
 Knight, C J, BA *Camb*, PhD *Manc*.
 (Pure M) Asst. Lectr.
 Hawkins, Faith M, BA *Oxon*
 (Pure M.) Asst. Lectr.
 Douglas, A J, BA *Oxon* (Pure M) Asst. Lectr.
 Abson, H., MA *Camb*, BCom *Lond*,
 MSc (Appl. M) Temp. Tutor

Medicine, see below

- Metallurgy**
- Quarrell, A. G., DSc PhD *Lond.*, FIP, FIM, Prof., Hd. of Dept
- Honeycombe, R. W. K., DSc *Melb.*, PhD *Camb.*, FIM (Phys. M) Prof
- Bilby, B. A., BA *Camb.*, PhD *Burn* (Theoret. M.) Reader
- Maddocks, W. R., BSc *Wales*, PhD *Glas* (Production M) Sr Lectr.
- Protheroe, H. T., BSc *Wales*, PhD (Foundry M) Sr Lectr
- MacDougall, A. J., MMet, FIM Sr Lectr.
- Havenhand, D., BSc Lectr.
- Woodhead, J. H., BMet Lectr.
- Entwistle, A. R., MA PhD *Camb* Lectr.
- Argent, B. B., BMet PhD (on leave) Lectr
- Tegart, W. J. M., MSc *Melb.*, PhD Lectr.
- Haworth, C. W., MA DPhil *Oxon* Lectr.
- West, J. M., MA PhD *Camb* Lectr.
- Ball, C. J., BA PhD *Camb* Lectr.
- Mitchell, A., BA *Oxon.* Asst Lectr
- West, P., BSc PhD Asst Lectr
- Dyson, B. F., BMet Temp Asst Lectr
- Beech, J., BMet United Steel Cos Res Fellow
- Warrington, D. H., MA PhD *Camb.* J. H. Andrew Res. Fellow
- Morsn, V. J., BSc *N S W.* T I Res Fellow
- Parrell, K., MMet Ironmongers Co. Res. Fellow
- Hume-Rothery, Prof W., OBE, MA DSc *Oxon.*, FRs Hon. Lectr.
- 1 Res Asst.
- Microbiology, see Medicine, below**
- Mining, see Engineering, below**
- Music**
- Deas, J. S., MA MusBac *Edin*, FTCL James Roesiter Hoyle Prof.
- Bullivant, R. F. T., MA BMus DPhil *Oxon* Lectr.
- Lord, P. J., MA *Camb.*, BMus *Manc.* & *Camb.* Lectr.
- Linstead, G. F., DMus *Durh.*, FRCO, FTCL †Asst Lectr.
- Philosophy**
- Cousin, D. R., BA *Oxon* Prof
- Glasgow, W. D., BA *Dub* Lectr
- Mellor, W. W., BA BPhil *Oxon.* Lectr
- Physics**
- Sucksmith, W., DSc *Leeds*, FRs, FIP Prof
- Smith, R. A., CBE, BA PhD *Camb.*, MA *Edin* Prof
- March, N. H., BSc PhD *Lond* Prof
- Kaiser, T. R., MSc *Melb.*, DSc *Manc.*, DPhil *Oxon*, FIP Reader
- Tebble, R. S., BSc *Durh.*, PhD *Leeds*, FIP Sr. Lectr
- Lee, E. W., BSc *Lond*, PhD *Nott* Sr. Lectr.
- Crangle, J., BSc PhD Sr. Lectr.
- Fiddes, J., MA BSc *Edin.* Lectr.
- Gaunt, P., DPhil *Oxon.*, BSc Lectr
- Enderby, J. E., BSc *Lond* Lectr
- Murray, A. M., BSc PhD *Aberd* Lectr.
- Titman, J. M., BSc PhD *Durh* Lectr.
- Young, W. H., BSc PhD (on leave) Lectr
- Bishop, J. E. L., BA *Camb.*, MSc *Natal* Asst Lectr
- Williams, K. C., BSc *Lond*, PhD *Leic* Asst Lectr
- Blythe, H. J., BSc *Lond* Asst Lectr
- Gaskell, T., BSc *Lond* Asst Lectr
- Kilby, G. E., BSc Temp Asst Lectr.
- Ross, J. W., BSc Jr Res Fellow
- Smith, T. F., BSc Jr Res. Fellow
- Physiology**
- Smyth, D. H., MD MSc *Belf.*, PhD *Lond.* Prof
- Pickles, V. R., MA MD *Camb.* Reader
- Wiseman, G., MB BS *Lond*, PhD Sr Lectr
- Hervey, G. R., MA MB BChir PhD *Camb* Lectr.
- Barry, R. J. C., BSc *Lond*, PhD *S'ten* Lectr.
- Jervis, E. Lesly, BSc *Edin*, PhD Lectr
- Kershaw, T. G., MB ChB Asst Lectr
- Newey, H., BSc PhD J. G. Graves Med Res Fellow
- 2 Res Assts
- Psychology**
- Kay, H., MA PhD *Camb* Prof
- McKellar, T. P. H., MA N Z, PhD *Lond*, FBPSS Sr Lectr.
- Pilkington, G. W., BA *Lond* Lectr
- Moray, N., MA DPhil *Oxon* Lectr
- Refractories Technology**
- White, J., DSc PhD *Glas*, FIM Dyson Prof
- Ford, W. F., BSc *Lond.*, PhD Sr Lectr.
- Sociological Studies**
- Kelsall, R. K., MA *Glas* Prof.
- Mann, P. H., BA *Leeds*, MA *Liv*, PhD *Nott* Lectr
- Girling, F. K., BA *Camb.*, DPhil *Oxon.* Lectr.
- Ovens, Mrs. Kathleen R., BA *Lond* Tutor
- Sainsbury, E. E., MA *Oxon* Teaching Caseworker
- Jackson, J. A., BA (Soc) *Chc*, MA *Lond.* Asst. Lectr
- Martin, D., BSc (Soc) *Lond* Asst Lectr
- 1 Res Asst
- Spanish**
- Pierce, F. W., MA *Belf.* & *Dub* Hughes Prof
- Ribbans, G. W., MA *Lond* Sr Lectr
- Heathcote, A. A., MA *Manc* Lectr
- Inglefield, E. B., BA *Nott* Asst Lectr
- Moragas, F., DrOdont *Madrid* Asst.
- Statistics**
- Rubens, H., BSc PhD *Lond.* United Steel Cos. Sr. Lectr.-in-Charge

Kerridge, D. F., BSc *S'ton.*
 Davies, Hilda M., BSc *Lond*
 1 Res Asst

Lectr
 Tutor

Surgery for Dental Students

Gillespie, I. E., MB ChB *Glas*, FRCS 1 Lectr
 6 other Clin Dental Teachers

Zoology

Chester Jones, I., DSc PhD *Liv* Prof
 Francis, E. T. B., BSc *Lond*, PhD *R'dg*
 (Vertebrate Z.) Reader
 Segrove, F., BSc PhD Sr Lectr
 Ehling, F. J. G., MSc PhD *Brist* Sr Lectr
 Jones, J. D., BSc *Lond* Lectr
 Highnam, K. C., MSc *Manc*, PhD Lectr
 Phillips, J. G., BSc PhD *Liv* Lectr
 Laisis, O., MagRerNat *Latvna*, PhD Lectr
 Museum Curator
 Stark, G. T. C., BSc *Wales* Jr Res. Fellow

ENGINEERING

(see also Maths, above)

Applied Mechanics (Postgraduate)

Tuplin, W. A., DSc *Manc*, MIMechE Prof.
 Meyer, M. L., BSc(Eng) *Lond*,
 DipIng *Bel.* Sr. Lectr.
 Freeman, P., BEng Lectr.
 Kirk, C. L., BSc(Eng) *Lond*, PhD Lectr
 Rose, E., BSc *Manc*. Lectr.
 1 Res Asst

Engineering, Chemical, see Fuel Technol., below

Engineering, Civil

Boulton, N. S., MSc *Birm*, MICE Prof.
 Eastwood, W., PhD *Aberd*, BEng Sr. Lectr.
 Oserby, C., BSc(Eng) *Lond* Lectr
 Sarginson, E. J., MEng *Liv*. Lectr
 Clements, M. S., BEng Lectr
 Wilby, C. B., BSc PhD *Leeds* Lectr
 Latton, E., BSc *Glas* Lectr

Engineering, Electrical

Cullen, A. L., OBE, BSc(Eng) PhD *Lond*, Prof
 MIEE
 Butler, O. I., DSc *Wales*, MIEE
 (Electr Machinery) Reader
 Benson, F. A., MEng *Liv*, DEng PhD
 (Electronics) Reader
 Harrison, D., MEng *Liv*, PhD Sr. Lectr
 Harris, D. J., BSc(Eng) PhD *Lond* Lectr
 Robson, P. N., BA *Camb.* Lectr.
 Brown, R., BEng PhD Lectr.
 Allison, J., BSc(Eng) *Nott*, PhD Lectr.
 Howatson, A. M., BSc PhD *Edin* Lectr

Engineering, Mechanical

Duncan, J. P., ME *Adel*, MIMechE Prof.
 Parker, C. F., BSc *Lond*. Sr. Lectr.
 Baldon, E., MSc(Eng) *Lond* Sr. Lectr
 Neal, P. B. N., BEng PhD Sr. Res Fellow
 Sutherland, K. H., BSc *Durh*. Lectr.
 Briggs, G. C., BEng Lectr.
 Bernst, E. P., DipIng *Lwow* Lectr.
 Woo, D. M., BSc *Shanghai*, MS *Mieh* Lectr.
 Ferguson, T. B., MA *Camb.* Lectr
 Stringer, J. D., BScTech *Manc* Lectr
 Sparling, L. G. M., BEng Lectr
 Kenny, B., BEng Lectr
 Dugdale, D. S., BSc PhD *Brist*.
 Speedicut Res. Fellow
 1 Tutor, 1 Draughtsman Demr.

Fuel Technology and Chemical Engineering

Thring, M. W., MA *Camb.*, FIP
 Newton Drew Prof

DENTAL STUDIES

Dental Mechanics and Prosthetics

Turrell, A. J. W., LDS *Leeds* St. Lectr
 Smith, J. P., BChD LDS *Leeds* Lectr
 Lehman, M. L. Lectr
 1 Instr., 2 Asst Instrs

Dental Metallurgy

Woodhead, J. H., BMet 1 Lectr

Dental Pathology

Hodson, J. J., BDS PhD Prof.
 Allan, J. H., LDS *Glas*, BDS Lectr
 Battersby, T. G., FDSRCS Hon Lectr
 Dimsdale, R. C. W., BChD *Leeds*,
 FDSRCS Hon. Lectr.

Dental Surgery

Roberts, G. L., MB ChB BDS *Liv*, FDSRCS
 Prof., Dir of Dental Studies
 Hull, J., DDS *Penn* 1 Asst Lectr
 Rastall, R., LDS [Hon Lectr
 Rayner, G. H., LDS, FDSRCS
 (Maxillo-facial Surg.) 1 Lectr.
 Sprinz, R., BDS PhD, FDSRCS (Prev D.) Lectr
 Wedgwood, Marjorie M., LDS
 (Prev D.) Asst Lectr
 1 Asst Tech Instr

Operative Dental Surgery

Hampson, E. L., MDS *Liv*, FDSRCS Prof
 Clarke, J., LDS Lectr.
 Atkinson, Anne M., LDS Lectr.
 Belk, D. T., BDS Asst Lectr.
 Medd, R. D., LDS Asst. Lectr.

Oral Anatomy and Histology

Sprinz, R., BDS PhD, FDSRCS Lectr.
 Heald, H. R., LDS 1 Lectr
 Wedgwood, Marjorie M., LDS Asst Lectr

Orthodontics

Gardiner, J. H., BDS *Manc*. Sr. Lectr
 Iyer, V. S., BDS *Bom.*, FDSRCS Asst Lectr
 Price, A. H. K., LDS, FDSRCS Hon. Lectr.

Hulse, C, BSc *Birm.*, PhD
 Beet, A E, BMet PhD
 Siddall, R G, MSc PhD
 Perry, M G, BSc(Eng) *Rand*
 Fells, I, MA PhD *Camb.*
 Littlewood, K., BSc *Lond.*, PhD
 Start, P L, BScTech PhD
 Southern, H., MScTech

(Furnace Design) Hon Lectr
 Fells, H. A., MBE, BSc PhD *Lond.*, FRIC
 (Gas Utilization) Hon Lectr

Chesters, J. H., BSc DScTech PhD, FIF
 (Indust. Res.) Hon. Lectr

Beer, J. M., DiplIng *Bud*, PhD
 Hon Res Fellow

Foster, P. J., BScTech
 Owens-Illinois Res Fellow

Hedley, A. B., PhD C E G B Res Fellow
 Mann, J. W. S., BE MTech PhD *Kharagpur*
 I C I Res. Fellow

2 Res. Assts, 2 Demrs.

Glass Technology

Douglas, R W, DSc *Lond.*, FIP Prof.
 Isard, J O., MA *Camb.*, BSc *Lond.* Lectr

Sykes, R F R, BSc BScTech Lectr
 Cable, M, BScTech PhD Lectr

Bray, P J., PhD Visiting Prof.
 Parkin, M., MSc †Lectr

Parke, S., BSc PhD *Lond*
 Owens-Illinois Res. Fellow

Bates, T., BSc *Lond* Jr Res Fellow

Mining

Atkinson, F S, MEng Prof.
 Roberts, A, BSc *Lond*, MSc *Durh.*, PhD *Nott.* (Postgrad Sch.) Dir

Hurst, G, MEng Sr Lectr
 Pursall, B R, BSc *Wales* Lectr

Mercalf, J R, BSc(Eng) *Lond* Lectr
 Williams, F T, MSc *Wales*

(Postgrad Sch.) Lectr.
 Bunt, H J, BSc *Manc* (Postgrad. Sch.) Lectr

Hawkes, I, BEng PhD (Postgrad. Sch.) Lectr

†Honorary Lecturers

Evans, W H., MSc PhD *Lond*
 Grimshaw, H C, OBE, MSc *Manc.*, PhD

Guénault, E. M., MSc PhD

Tideswell, F V, OBE, MSc *Manc*, PhD

Hartwell, F. J., MSc *Manc.*

Nagelschmidt, G, DPhil *Berl*, FGS

2 Res Assts.

MEDICINE

(for subs of first 2 yrs — Anat., Physiol.,
 etc, see above)

McCrie, J G, OBE, TD, MB, FRCPed Dean
 Sneddon, I B, MB ChB, FRCP

Dir. of Clin Studies

Bacteriology

Beatrice, C P., MA MB ChB DPH *Edm* Prof
 Beverley, J K. A., BSc MD Sr Lectr.

Sr. Lectr
 Lectr.
 Lectr
 Lectr
 Lectr
 Lectr

Hoskins, J. M., BA *Oxon*, PhD *Lond*

(Bacteriol & Virol) Lectr

Shedden, W H L., BSc MB ChB *Edm* Lectr.

Paane, C. G., MD *Lond.*, FRCOG Hon. Lectr

Colquhoun, J., MB ChB Hon. Lectr

Gillespie, E H., MB ChB *Edm* Hon Lectr

Hobson, D, MD Hon. Lectr

Wilson, Margaret A, MB ChB *St And*,

DipBact *Manc.* Hon Lectr.

Potter, C W, BSc R'dg. Hon Demr

Biochemistry

Gibson, Q H, MD DSc *Belf* Prof

Weber, G, MD *Buenos Aires*, PhD *Camb*

(Biophys) Reader

Dalziel, K., BSc PhD *Lond.*

Sorby Res Fellow of Royal Society

Massey, V, BSc *Syd*, PhD *Camb.* Sr Lectr

Kaye, M A G., BSc *Lond*, PhD *Bum.* Lectr.

Hofmann, T., DrScTechn *Zür* Lectr.

Sykes, J., BSc PhD *Leeds* (on leave) Lectr

Norymberski, J. K., DrScTechn *Zür*

Hon Lectr.

Podmoise, D A Hon Demr.

Finch, Ethel, MSc *Birm.* Hon Demr

Hastings, J W, MA PhD *Prim* Visiting Lectr

Cancer Research

Green, H N, MA *Camb*, MD MSc

Prof of Exper Pathol. & Dir of Cancer

Res, Univ of Leeds, Hon Dir.

6 Res Workers

Child Health

Illingworth, R. S., MD DPH *Leeds*,

FRCP

Lorber, J, BA MD *Camb.* Prof

Holt, K S, MD *Rich*, MD *Manc* Sr Lectr

Dubowitz, V, BSc MD *Cape T* Lectr

Gordon, R R, MC, MD *Glas* Hon Lectr

5 Clin. Teachers

Field Laboratories

Illman, O, BSc *Lond* Curator

Forensic Medicine

Forbes, G, BSc MD *Glas*, FRCSed,

FRFPGlas Reader in charge of Dept

Usher, A, MB BS *Durh.* Lectr.

Medicine

Stuart-Harris, C H, CBE, MD *Lond*,

FRCP

Duff, R S., MD, FRFPGlas Sr Lectr.

Platts, Margaret M., BSc MD Lectr.

Daly, J J, MA MB BChir *Camb.* Lectr.

Hammond, J D. S., MD

(Med for Dent Students) †Instr.

†Lecturers & †Clinical Teachers

Brody, H. P, FRCP

Leishman, A. W. D, MA DM *Oxon*, FRCP

Skipper, E W., MD *Lond*, FRCP

Wilson, G. M., BSc MD *Edin.*, FRCP, FRCPEd
 Davies, C. E., MA DM *Oxon*
 Turner, H. M., MD *Manc.*, DPH (Chest Dis)
 Darke, C. S., MD *Lond* (Chest Dis)
 Gumpert, T. E., MB ChB, FRCP (Cardiol)
 Verel, D., MA MD *Camb* (Cardiol)
 Kennedy, J. M., MB BCh BAO DPH *Belf*

(Infectious Dis.)
 Carson, J., MB ChB *St And*, FRCP (Neurol)
 Wilkie, J., DMRE *Camb*, MSc MB ChB, FFR (Radiodiag)
 Blomfield, G. W., MA *Camb*, MB ChB *Leeds*,
 FRCS, FRCOG, FFR (Radiotherapy)
 West, H. F., MD *Lond*, DTM *Liv*.

(Rheumatic Dis)
 Sneddon, I. B., MB ChB, FRCP (Dermatol)
 Morton, R. S., MBE, MRCP (Venereal Dis)

Honorary Lecturers

Tyrrell, D. A. J., MD (Med)
 Miller, H., MA PhD *Camb*, FIP (Radiol Phys)

John Stokes Research Fellow

Smith, A. J., MA BM BCh *Oxon*
 10 other Clin Teachers, 2 Res. Assts.

Microbiology

Elsden, S. R., BA PhD *Camb*, West Riding Prof.
 Fry, B. A., BA PhD *Camb*, Lectr.
 Evans, M. C. W., BSc Batchelor Res Fellow
 Peel, J. L., BA PhD *Camb*, Hon Lectr
 Hoare, D. S., MSc PhD *Lond*, Hon Lectr

Obstetrics and Gynaecology

Russell, C. S., MA *Oxon*, MD *Edin*, Prof
 FRCSEd, FRCOG
 Dewhurst, C. J., MB ChB *Manc.*, Reader
 Warrell, D. W., MB ChB, Lectr
 Baker, Jean L., MB ChB, Temp Lectr

†Lecturers & †Clinical Teachers

Patrick, L. B., MB ChB, FRCSEd, FRCOG
 Lees, D. H., MB ChB, FRCSEd, FRCOG
 Smith, T., MB ChB, FRCSEd, FRFPGlas
 1 other Clin. Teacher

Pathology

Collins, D. H., OBE, MD *Liv*, FRCP

Joseph Hunter Prof

Crane, W. A. J., MD *Glas*, Sr Lectr

Ghadially, F. N., MB BS *Bom*, MD

PhD *Lond* (Exp. P.) Sr Lectr

Dodge, O. G., MD *Manc* (on leave) Lectr

Caldwell, R. A., MB ChB *Glas*, FRFPGlas

Lectr

McElligott, T. F., MB BCh BAO *N U I*,

DPH *Liv*, Lectr

Meacham, G., MD *Camb*, Temp Lectr

Edwards, J. L., MA MB BCh *Camb*,

LLB, MRCP, Hon Lectr

Emery, J. L., MD *Brist*, DCH, Hon Lectr

Price, D. E., MB BS *Lond*, Hon Lectr

Blackburn, E. K., MD *Leeds*,

FRFPGlas, Hon. Lectr.

Warrack, A. J. N., MBE, MD *Lond*, Hon. Lectr.

Bowley, C. C., MB BS *Lond*, Hon. Lectr.

Osborn, G. R., MB BS *Melb*, MRCP

Hon Lectr

Wolman, L., MA MD *Camb*, MRCP

Hon Lectr.

Jordan, A., DSc *Stras*, MB BS *Lond*,

FRCP (Chem P) Hon Lectr.

Pharmacology and Therapeutics

Wilson, G. M., BSc MD *Edin.*, FRCP,

FRCPed, Prof.

Munro, D. S., MD *Aberd*

(Therapeutics) Sr Lectr

Tudhope, G. R., BSc MD *St And*

(Therapeutics) Sr Lectr.

Kilpatrick, R., MB ChB *Edin*

(on leave) (Pharmacol.) Lectr

Acland, J. D., MA BSc BM BCh *Oxon*

(Pharmacol.) Lectr.

Major, Patricia W., BSc PhD Temp. Asst Lectr

Weetch, R. S., MB ChB *Glas*

(Therapeutics) †Hon Lectr

Walker, Anne E., MB ChB

Boots Med Res Fellow

Broadhead, G. D., BSc PhD

Wellcome Res. Fellow

2 Instrs

Preventive Medicine and Public Health

Knowelden, J., MD DPH *Lond*, Prof

Brown, P. E., MB ChB DPH *Edin*, Sr Lectr

Fleming, C. E., MA BSc *Oxon*, BA

DipCom *W Aust*, Lectr

Roe, J. W., BSc *Lond*, Lectr

Trevethick, R. A., MB ChB

(Indust. Med.) Hon Lectr.

Roberts, L., MD DPH *Lond*

(Pub. Health) Hon Lectr.

Shaw, C. H., MD *Lond*, DPA

(Pub. Health) Hon. Lectr.

1 other Clin. Teacher

Psychiatry

Stengel, E., MD *Vienna*, FRCP, Prof.

Thorpe, F. T., DPM *Lond*, Lectr.

Merskey, H., MA BM BCh *Oxon*, Lectr

Jenner, F. A., MB ChB PhD, Lectr.

Clarke, P. R. F., MA *Oxon*, DipPsych *Lond*

(Clin Psychol) Lectr

Esher, F. J. S., MB ChB *Birm.*,

DPM *Leeds*, Hon. Lectr.

Macmillan, D., BSc MD DipPsych *Edin*,

FRCPed, Hon. Lectr.

Hall, P., MB ChB *Birm*

Foundations Fund Res Fellow

2 other Clin Teachers

Surgery

Kay, A. W., MD ChM *Glas*, FRCS,

FRFPGlas, Prof.

Gillespie, I. E., MB ChB *Glas*, FRCSEd

(on leave) Lectr.

Clarke, S. D., MCh *Belf*, FRCSEd, Lectr.

Randall, D. H, MB BS *Lond*, FRCS (Cln S) †Lectr.
 Robertson, D. J, MS *Lond*, FRCS (Cln S) †Lectr.
 Anderson, J. C, OBE, TD, MB ChB *St And*, FRCS (Cln S) †Lectr.
 Jones, C. D. P, MBE, MB BS *Lond*, FRCS (Cln S) †Lectr.
 Holdsworth, F. W, MA MChir *Camb*, FRCS (Orthoped S) †Lectr.
 Hardman, J., MB ChB *Birm*, FRCS (Neurological S) †Lectr.
 Gray, J. D, MB ChB, FRCS (Ear, Nose & Throat) †Lectr.
 Stanworth, A, PhD *Manc*, BSc MD (Ophthalmic S) †Lectr.
 Pleasance, R. E, MD, FFARCS (Anæsth) †Lectr.
 Taylor, D. G, MB ChB BAO *Belf*, FRCS (Cardiothoracic S) †Lectr.
 16 other Clin Teachers, 8 Instrs, 2 Res Asst

Smith, Gwen F, BA
 1 Res Fellow

Librarian

EXTRA-MURAL STUDIES

Bruce, M, BA *Lond*, FRHistS Dir
 Lecturers and Tutors
 Bestall, J. M, MA *Oxon* (Hist)
 Park, J. T., MA *Manc*. (Hist)
 Parris, H, MA *Oxon* & *Leeds*, PhD *Leic* (Hist.)
 Crowther, D., MA *Leeds*, PhD *Glas*. (Philos)
 Hainsworth, J. D, MA *Oxon* (Lit.)
 Whittington, W. E, MA (Econ & Indust Reins)
 Harrison, R. J, MA DPhil *Oxon* (Econ & Indust Reins)
 Adams, R. C, BCom MSocSc *Birm* (Econ. & Indust Reins)
 Barratt Brown, M., MA *Oxon* (Econ & Indust. Reins)
 Peel, J, BA *Leeds* (Sociol)
 Bassey, M, BSc PhD *Lond* (Sci)
 Toleman, A. Morwenna, BA (Econ) *Camb* (Child Care Trg) Tutor
 23 Tutors† in addition to members of the Univ. Academic Staff

INSTITUTE OF EDUCATION

Ford, B., MA *Camb*. Prof., Dir.
 Birch, L. B, MA BSc *Birm*. (Educnl. Psychol.) Sr. Lectr., Dep Dir
 Edwards, H. T, BSc *Lond*. Sec.

ADMINISTRATIVE AND OTHER STAFF

Finance Officer & Dep. Bursar: E Walker, DSO, BA *Manc*, BSc (Econ) *Lond* Asst. Registrars: F. O. Hooley, BA *Birm* (on leave), Mrs Eileen M. Denman, BSc, H. D. Turner, BSc PhD Asst Bursars: Lt.-Col. C. E. Eley, MBE, TD, J. H. Barker, MA *Camb* Planning Officer H. R. Johnson, BA DipArch

LIBRARY: Dep Librarian: W. L. Saunders, MA *Camb*, FLA. Sub-Librarians: W. J. Hitchens, MA *Camb*; Sigrid Mandahl, BA *Oxon*, FLA, G. C. J. Stoneham, MA *Oxon*, FLA. Asst Librarians: A. Davies, BA *Liv*, Joan Gilham, MA *Camb*; Christina M. Mather, Brenda E. Moon, BA *Oxon*, FLA, T. A. D. Smith, BA, FLA, J. A. B. Townsend, BA *Oxon*.

STUDENT HEALTH SERVICE. Med. Officer in

Charge: P. W. W. Gifford, MB ChB *Birm* Asst Med. Officers: Alison Chapman, MB ChB *St. And.*, J. L. Graham, MB ChB *St. And.*

WARDENS OF HALLS OF RESIDENCE: For men: W. R. Maddocks, BSc *Wales*, PhD *Glas*. (Crewe Hall), Prof. H. W. Lawton, MA *Wales*, DU *Paris* (Ranmoor House); G. C. Bird, BA *Lond* (Stephenson Hall). For women: Dorothea M. Mowat, BSc PhD *Edin*. (Halifax Hall). LODGINGS WARDEN: Ethel T. M. Ball

APPOINTMENTS BOARD: Sec: E. A. Ovens, BA *Lond*.

SR TUTOR FOR WOMEN STUDENTS

MASTER OF PHYSICAL RECREATION: H. Cofield

GENERAL INFORMATION

The Sheffield Sch. of Med, founded 1828, Firth Coll, establd. as a coll. of arts and sci. in 1879, and the Sheffield Technical Sch, opened in 1886, were united in 1897 to form Univ Coll, Sheffield. In 1905 the coll became, by royal charter, the Univ of Sheffield.

Originally dependent almost entirely on local contributions, the univ. developed slowly in its early yrs, with the facs of engin and metall in particular benefiting from their close connexion with local industry, but with a balance of student numbers largely in favour of the arts and pure

scis. In recent yrs Treasury grants have made possible all-round expansion, and since the end of the war 13 new depts have been establd, 26 chairs created, 5 major bldgs and considerable extensions completed, and extensive sites acquired. Particular attention has been paid to facilities for postgrad. study in the various branches of engin and metallurgy, in 2 of which—glass and refractories technol—Sheffield has the only univ teaching depts in the country.

CONSTITUTION. The court, the governing body of the univ, consists of some 470 reps of educnl

and financial interests, who receive an annual report and statement of accounts and sanction changes in ordinances. Executive control rests with the council, composed of the officers of the univ and reprs apptd by court, senate, the non-professional staff, local authorities and hospes, and convocation. The senate, comprising the profs. of the univ and certain other academic persons, controls all academic affairs and reports to the council on academic matters requiring action by the council. Seven facs (*see below*), each under its own bd, are responsible to the senate for the teaching in their various depts. The dept of extra-mural studies and inst of educn report direct to the senate and the council through their bds.

The chancellor is the chief officer of the univ. The vice-chancellor is the principal academic officer, and is, *ex officio*, chairman of senate.

INCOME (1959-60) Endowments, £59,050, donations and subscriptions, £50,638; grants from local authorities, £39,528; parliamentary grants, £1,238,358, students' fees, £175,384; contributions for services rendered, £181,360, other income, £3692.

FACULTIES AND DEANS *Arts* (incl. archit.), Prof E. Laughton (Latin), *econ & soc. studies*, Prof J C Gilbert (econ), *engin* (depts of civ, electr and mech engin; appl mechs., mining, fuel technol & chem engin; glass technol.), Prof M W Thrng (chem engin), *law*, Prof O R. Marshall, *med* (incl dental studies), J G. McCrie, *maths*, Prof J White (refractories technol), *pure sci*, Prof D G Northcott (pure maths).

UNIVERSITY PRECINCT The teaching and res bldgs of the facs of arts, econ. & soc. studies, law, med and pure sci, the sch of soc studies, library, staff club house, students' union and admin offices are grouped in the Western Bank area, in close proximity to 4 of the teaching hospes. A short distance from this main group lies the St. George's Sq block of engin and metall depts, and on the other side of Western Bank, linked to it by new playing-fields, the bldgs of the dept of glass technol. Sites now being developed, both in the neighbourhood of these groups of bldgs and in a pleasant residential suburb about a mile away, in which the halls of residence for students are situated, will result in compact univ teaching and residential quarters.

LIBRARY Arts, econ & soc studies, law, med, pure sci. 223,943 vols and pamphlets; appl. sci. 21,887 vols. and pamphlets. Also sp glass technol, inst of educn, and dept collections.

LABORATORIES, ETC Equipment for advanced study and res in all depts. Sp provision for engin in all branches, incl mining, and fuel technol. & chem engin, also for glass technol and metall, the equipment for the latter incl. an experimental-scale steel works. Electronic com-

putation lab, Edge Mount radio-astron. stn. Alfred Denny Museum (zool.)

HOSPITALS available for clinics. Royal Inf (541 beds), Royal H (446 beds), City General H (652 beds), Jessop H for women (229 beds), Children's H (205 beds); Lodge Moor, Hallwood, King Edward VII Hs and the Sheffield Sanatoria for infectious dis (955 beds), Middlewood H. (mental dis) (2029 beds), Edgar Allen Physical Treatment & Rehabilitation Centres, Charles Clifford Dental H., New Teaching H.

INSTITUTE OF EDUCATION, 387 Glossop Rd, Sheffield, 10 (tel. Sheffield 65287) (*see also* 'Teaching Staff', *above*). *Constituent members*. univ. dept. of educn, City of Sheff Trg Coll; Thornbridge Hall Trg. Coll., Wentworth Castle Trg Coll., Doncaster Trg. Coll., Lady Mabel Coll. of Phys. Educn; Totley Hall Coll. of Housecraft; City of Sheff Coll. of Arts & Crafts, Swinton Day Trg Coll.

ADMISSION *See* Appendix III

FIRST DEGREES BA gen, BA sp. hons. (classics, Engl, French, German, Spanish, hist, mod hist. & govt., philos, econ, econ & govt., maths, archit., music, biblical hist & lit, psychol, and combinations of certain of these subs) —3 yrs (except BA hons archit —5 yrs. incl approved time spent in an architect's office). BArch hons —5 yrs. BA(Econ) gen, or sp hons (econ, geog or sociol.) —3 yrs. BMus —3 yrs (4 yrs if combined with BA) BEng, ord. or hons (civil, electr, or mech engin, mining), BScTech, ord or hons (fuel technol & chem. engin) —3 yrs after passing entrance exam* LLB, ord, hons (on results of final exam.) —3 yrs BJur, ord, hons (on results of final exam.) —2 yrs after passing inter or 1st yr. exam. for a degree of a fac of the univ. other than fac of law MB ChB, BDS (hons available on combined results of 2nd, 3rd and final exams) —5 yrs after passing 1st exam (BDS, pt I of 1st exam).* BMet, BScTech (glass or refractories & ceramics technol.), ord. —3 yrs, hons. 3 yrs after passing inter exam* BSc, gen —3 yrs, sp. hons (maths, phys, chem., zool, bot., physiol, geol, geog, anat., biochem) —3 yrs after passing inter exam*.

BA and BSc gen. degrees (on which hons may be obtained under certain conditions) are awarded on 3 subs offered in the final exam, sp degrees of BA and BSc with hons, on one principal suby of the hons sch, together with any subaid. subject(s) required. In the various branches of engin, admission to the hons. course (in the 3rd, final, yr) is obtained on the results of the 1st (post-inter) exam. In glass technol admission to the hons. course may be obtained at the end of either the 1st or 2nd yr on exam. results.

Under certain conditions, grads of a U.K. univ who wish to qualify for the sp degree of BA or BSc with hons, BMus, or LLB need only

* *See also* Appendix III

attend courses for 2 yrs if they have pursued a course for 2 yrs. at some approved instn. Similar conditions apply in the case of grads of approved univs who wish to qualify for BEng, BScTech or BMet with hons. (for BEng or BScTech ord degree, the attendance required may be 1 or 2 yrs; BMet ord. degree, 2 yrs)

Attendance on approved courses at a univ or coll. recognized for the purpose may be accepted as equivalent to such courses in the univ. The univ contributes towards the expenses of undergrads. spending a term at univs so recognized by the fac of arts for certain lang courses

Transfer Year. A prelim transfer yr. is available for students admitted to the hons. sch. of chem under the I C I. scheme.

HIGHER DEGREES LLM, MA, MA(Econ), MSc, MEng, MMet, MScTech, obtainable —

(i) by bachelors of the univ of not less than 1 yr.'s standing, holding approved degrees in the fac concerned (a) by presentation of a thesis, with oral and written exam if required (attendance on courses may also be required as follows LLM, MA and MA(Econ)—such courses as the fac concerned may prescribe for candidates who hold a bachelor's degree without hons., MSc—3 consecutive terms for grads BSc with hons of less than 2 yrs' standing, 6 consecutive terms under certain conditions for grads BSc without hons., MEng—3 consecutive terms for grads BEng of less than 2 yrs' standing and experience in the sci or practice of engin, MMet—not less than 3 terms' res in the dept. of metall for grads BMet of less than 3 yrs' standing and experience in the sci or practice of metall.; MScTech in fuel or glass technol—3 consecutive terms for grads BScTech of less than 2 yrs' standing and experience in the sci or practice of technol; MScTech in refractories technol—not less than 3 terms' res in the dept of refractories technol for all candidates), (b) *alternatively* for MA, MA(Econ), MSc, MMet, MScTech in refractories technol, by written exam. (and submission of a dissertation with oral exam. if required in the case of MMet in refractories technol), after attendance on approved courses of not less than 1 yr.

(ii) under certain conditions, by grads of other facs, appropriately qualified grads of other approved univs, and (except for the degree of LLM) certain other persons with approved qualifs. (towards which the practice of engin., metall or technol may contribute in the case of MEng, MMet and MScTech respectively), after attendance on courses varying from 1 to 3 yrs. (MSc in educn., 5 yrs. pt-time)

(iii) (MEng, MMet, MSc, MScTech only) by appropriately qualified full-time members of staff of affiliated technical colls, by presentation of a thesis after 3 yrs.' approved res. in the affiliated instn under univ supervision

MD, MDS, ChM, obtainable only by grads. of the univ. MD, by thesis (and exam if required); MDS, by thesis or exam—2 yrs' standing; ChM, by exam—3 yrs' standing

PhD, available in all facs after a 3-yr. course of study (which may, in certain circumstances, be reduced to 2 yrs) to grads of any approved univ and to persons holding other approved qualifs., and in the facs. of arts, law and econ and soc studies after 4 yrs' pt-time study to grads. only.

Doctorates obtainable only by grads. of the univ. LLD, for distinction in res or learning in law (exam may also be required)—4 yrs' standing, DMus, by composition (or thesis) and exam, DEng, DMet, DScTech, for distinction by substantial contributions to learning—6 yrs' standing, LittD, LittD(Econ), for distinction by contribution to learning—grads MA, MA(Econ) of 5 yrs' standing; DSc, for distinction in published original res.—grads BSc of 6 yrs' standing, grads BSc of other approved univs who are also MSc or PhD of Sheff of 6 yrs' standing

The univ does not award EXTERNAL DEGREES

DIPLOMAS Archit, 5 yrs (incl approved time spent in an architect's office), LDS, 5 yrs; glass technol, 3 yrs (for those with 2 yrs' practical experience, 2 yrs), assoc fuel technol. & chem. engin, assoc. glass technol., assoc metall (for persons already holding appropriate qualifs), 1 yr *Postgraduate* educn, 1 yr, microbiol, 1 yr; pub health, 18 months pt-time, appl mechanics, 1 yr; munng, 1 yr full-time or equivalent pt-time, business studies, 1 yr, glass technol, phys metall, 1 yr; soc studies, 1 or 2 yrs.

CERTIFICATES Archit, 3 yrs; profess. practice of archit, exam after 1 yr's profess. practice following award of degree or dipl, biblical hist & lit, 2 yrs' evening study; soc. studies, 2 yrs

POSTGRADUATE COURSES In addn. to those leading to a qualif, postgrad. courses not leading to a qualif. are available on a pt-time basis in the postgrad. depts of appl. mechs, munng and phys metall. to specially qualified persons from industry.

BUSINESS STUDIES 12-wk. course for executives from industry, comm and the public service: 6 residential sessions each of a fortnight, held at one of the univ. halls during 6 successive vacs.

RESEARCH Facilities for postgrad res in all depts. A univ fund assists members of academic, library and admin. staffs, res fellows and scholars of the univ, and, in certain circumstances, registered res students, in cases where adequate funds are not otherwise available. *Annual Report* lists pubd. work and titles of theses approved for higher degrees.

STUDY LEAVE No regular practice, but applies by members of staff for leave of absence dealt with by univ council on merit

FEES *Annual composition fees* (incl tuition, registration, exam, graduation and membership of students' union, but excl lab and re-exam fees) Bachelor's degrees. BA, BA(Econ), BMus, LLB, BJur, £58; BSc, MB ChB, BDS,

BEng, BScTech, BMet, £68 Higher degrees: MA, LL.M, PhD (without lab facilities), £38, MSc, MEng, MScTech, MMet, with attendance, PhD (with lab facilities), £48, MA, MSc, MEng, MScTech, MMet, without attendance, £20, LL.M, without attendance, £15, MD, MDS, ChM, PhD (pt-time), £25, LittD, DMus, LLD, DSc, DEng, DScTech, DMet, £30. Diplomas: archit., pub. & soc. admin (full-time), soc studies (2-yr course), £58; educn, microbiol, appl mechanics, mining, glass technol., phys metall, soc studies, Mus studies, £68 (1-yr course), pub health, £75 Associateships: fuel technol & chem. engin., metall, £68. (Note: Composition fee for undergrad courses may be remitted in the case of children of full-time members of the univ staff)

ACADEMIC YEAR Oct-June 3 terms of 10 wks each.

EXTRA-MURAL STUDIES (see also 'Teaching Staff', above) A bd of extra-mural studies supervises the provision of pub lectures, univ. extension courses, tutorial and sessl classes, short residential schs LEAs and the WEA are represented on the bd

PRINCIPAL OPEN ENTRANCE SCHOLARSHIPS, awarded on the results of a sp exam, held annually in the Easter vac (entries by Feb 1) *Firth*, one of £120 p a for 3 yrs, *Edgar Allen*, 6 (of which 3 restricted as to father's income and type of occupation) of £100 p a. for 3 yrs, *Umw*, 4 of £40 p a for period of degree course, *Med*, 1 of £68 for period of med degree course, combined *Matthew Henry Habeshon and Parker Rhodes memorial*, 1 of £100 for 3 yrs for degree course in mining, *Glass Sellers' Co*, 1 of £40 p a, up to 4 yrs for hons degree in glass technol. All eligible for supplementation by Ministry of Educn

POSTGRADUATE AWARDS open to grads. of other univs, see p 808

APPOINTMENTS BOARD The services of the bd are available to all students, past and present. The bd has members from industry, etc, and maintains relations with employers in all fields. For sec, see 'Admin. and Other Staff', above

SHEFFIELD UNIVERSITY ASSOCIATION of old students publishes periodically a paper giving addresses, occupations, hons, etc

STUDENT RESIDENCES. For women (fees, £150 p a) Halifax Hall, Endcliffe Vale Rd, Sheffield, 10 (tel Sheffield 63506) (main hall, 60 students, annexes, 60 students) For men (fees, £153-£159 with lunches Wed, Sat., Sunday only) Crewe Hall, Clarkehouse Rd, Sheffield, 10 (tel Sheffield 60255) (main hall, 100, annexes, 21), Stephenson Hall, Oakholme Rd, Sheffield, 10 (tel Sheffield 61225) (at present 100), Rammoor House, Fulwood Rd, Sheffield, 10 (tel Sheffield 32949) (50) For wardens, see 'Admin. and Other Staff', above Registered lodgings: a list is maintained of lodgings supervised by a sp cttee., and there is a full-time warden of lodgings; board and lodgings cost from £3 7s. 6d. upwards per wk

STUDENT HEALTH SERVICE This service is in the charge of full-time med officers (appointed by univ), whom all students are entitled to consult. Under univ regns each student has med exam in 1st yr. (overseas students at entry). For med officers, see 'Admin and Other Staff', above.

STUDENTS' UNION AND ATHLETICS. Soc. & athletic sub. of £8 (incl in composition fee) is compulsory. Following facilities available: (i) membership of univ. union and its various socs; (ii) athletic grounds of approx 55 acres, one on the outskirts of city and one, in course of devel, adjacent to univ, (iii) gymnasium, boxing-ring, tennis, badminton, fives and squash courts, etc

OFFICERS' TRAINING CORPS A basic trg. wing and advanced sub-units of infantry, R.E and W R A C O Lt.-Col. C. E. Eley, MBE, T.D.

PUBLICATIONS *Calendar* (Oct.), 15s; *Sheffield Univ. Gazette*, twice a yr, 1s.; *Sheffield Univ. Reporter*, monthly, *The Arrows*, a chronicle, twice a year, annual sub, 2s.; *Annual Report* (Dec), *Handbook*, *Prospectuses* of facs, trg. dept, sch of soc studies, scholps., *The Story of a Modern University a History of the Univ of Sheffield*, Arthur W. Chapman (O U P, 1955)

THE YEAR 1960

PRINCIPAL BENEFACTIONS. Sir Stuart Goodwin, £35,000 for squash courts and fives courts, estate of Mr T. H. May, £21,007 for cancer res

MAJOR BUILDING DEVELOPMENTS *Bldgs completed*: fuel tech & chem engin., chem west wing

NEW CHAIRS Sociol studies, dent. pathol, oper dent surg, bldg sci

RETIREMENTS Dr. H. L. Willey (anaesth), Dr W. J. Clancy (obstet & gynaeol), Dr W. J. Wellwood Ferguson (ophthalmic surg.); H. C. Dent (prof, inst of educn).

RESIGNATIONS R. Edwards (educn), apptd prof of educn., McG, Ruth E. L. Deas (educn); H. C. Baker (psychol.), apptd lectr in psychol., Durh; Dr D. R. Davies (appl maths), apptd. prof of appl maths, Bangor; Dr N. T. Dunwoody (appl maths), apptd lectr in appl maths, Belf; Dr R. Street (phys.), apptd prof & hd of dept of phys., Monash; Dr D. Parsons (phys), apptd lectr in phys, Brist; J. H. Smith (phys), apptd lectr in phys, Monash, Dr D. J. Morantz (chem), Dr C. D. Pigott (bot), apptd. to sch of bot., Camb, Dr R. M. H. McMinn (anat), apptd reader in anat., King's Coll., Lond.,

Dr D H. Blakey (obstet & gynæcol.), apptd consultant in obstet & gynæcol. to the Chesterfield group of hospes; Dr A. Bradley (forensic med.), apptd specialist pathol., Launceston, Tasmania; B. N. Catchpole (surg.), apptd reader in surg., Adel; Dr L. Grimshaw (psychiatry), apptd consultant psychiatrist to Bury & Rossendale hospes; Dr H. M. Pollard (inst of educn.), apptd vice-principal, Coll of S. Mark & St. John, London; Dr H. R. Worth (student health service), apptd student health med. officer, Aberd.; E. Mary Bone (univ halls of residence), apptd residence officer, Royal Holloway Coll., Lond.

DEATHS Dr D. J. Campbell (pt.-time lectr in venereal dis.); Emer Prof. B. M. Laing (lectr in philos., 1919-45, prof., 1945-49); W. Burnet (lectr. in engin., 1919-51), Emer Prof. H. Moore (prof. of glass technol., 1946-55), Prof. W. D. Elcock (lectr. in French, 1937-46), Emer Prof. H. W. Swift (prof. of engin., 1936-55); Dr R. W. Lawson (ar. lectr. in phys., member of staff, 1919-55); O. K. Metcalfe (sr. lectr. in law, member of staff, 1919-58), G. A. de Belin (ar. lectr. in metall., member of staff since 1930), Sir Ernest Finch (member of mcd. staff, 1913-60, prof. of surg., 1934-44).

HONORARY DEGREES *LittD*—Cicely V. Wedgwood, historian; *MA*—Dorothy Greene, archaeologist; R. H. Barber, asst. bursar; F. A. Gent, former chairman, Derbyshire educn. cttee; Hannah M. Clark, freeman of Doncaster; *DSc*—Sir William Hodge, master of Pemb., Camb; *LLD*—Alhaji Sir Abubakar Tafawa Balewa, prime minister of Nigeria; Rt. Rev. S. F. Allison, lord bishop of Chelmsford; Rt. Hon. J. Chuter Ede, MP; Sir Roger Makins, chairman, U.K. Atomic Energy Authority; *DEng*—Sir John Cockcroft, master of Churchill Coll., Camb.

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	2352	416
Women	657	346
Total	3009	762

Distribution by Faculties: *Arts*, 815; *econ & soc studies*, 142; *engin.*, 738; *law*, 86; *med* (incl. dent.), 951; *metall.*, 204; *sci.*, 835. Total 3771.

Included in the figures above are:—

Postgraduate students, 626

New admissions (full-time), 861.

Students from other countries, 218 (Countries from which largest numbers came: India, 43; U.S.A., 18; Iraq, 12).

DEGREES AWARDED (1959-60) *Arts*: BA, 62; BA (hons.), 112; BA (Econ), 6; BMus, 1; MA, 11; DMus, 1; *Engin.* BEng, 48; BEng (hons.), 34; BScTech, 9; BScTech (hons.), 12; MEng, 8; MScTech, 3; *Law* LLB, 4; LLB (hons.), 11; LLM, 2; *Med* MB ChB, 47; MB ChB (hons.), 2; BDS, 7; BDS (hons.), 2; MD, 2; *Metall.* BMet, 13; BMet (hons.), 13; MMet, 20; MScTech, 1; *Sci.* BSc, 36; BSc (hons.), 140; MSc, 4; PhD (all facs), 84. Total number of first degrees awarded, 559.

DIPLOMAS AWARDED (1959-60) DipEducn, 92; DipArch, 20; DPAS, 3; LDS, 10; DipAM, 8; DipMin, 5; AGlassTechnol, 2; AFCE, 3; AMet, 8; sociol. studies, 2.

CERTIFICATES AWARDED (1959-60) Archt, 28; professional pract. archt, 23; bibl. hist, 4; sociol. studies, 9.

UNIVERSITY OF SOUTHAMPTON*

Founded 1952; previously established as Hartley University College, Southampton, 1902

Postal Address Highfield, Southampton, England

Telegrams . University of Southampton

Telephone : Southampton 56331 (10 lines)

VISITOR—H.M. THE QUEEN

CHANCELLOR—His Grace THE DUKE OF WELLINGTON, KG, LLD

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VICE-CHANCELLOR—D G. JAMES, Hon. LLD *Mt All. & Brown*, MA *Wales*

DEPUTY VICE-CHANCELLOR—Prof. A. A. PHILLIPS, OBE, JP, MA *Oxon.*, PhD *Lond*

TREASURER—A. R. AVENS, FCA

SECRETARY AND REGISTRAR—R. N. M. ROBERTSON, MA LLB *Glas.*

ACADEMIC REGISTRAR—MARGARET W. PRICE WHITE, BA *Wales*

FINANCE OFFICER—F. H. SAWYER, FCA

LIBRARIAN—B. M. BLAND, MCom *Birm*

TEACHING STAFF

[†=Part-Time]

Botany

Williams, W. T., ARCS, DIC, PhD

DSc *Lond*, FLS

Lane, G. R., BSc PhD *Lond*

Lambert, Joyce M., MA PhD *Lond.*

Manners, J. G., MA PhD *Camb.*

Whitmore, T. C., MA *Camb.*

Myers, A., BSc PhD *Leeds*

Prof

Sr. Lectr.

Lectr.

Lectr.

Lectr.

Asst. Lectr.

Chemistry

Cookson, R. C., MA PhD *Camb.*

Campbell, Ishbel G. M., BSc

PhD *St And.*

Fowles, G. W. A., BSc PhD *Brist*

Riddiford, A. C., BSc PhD *Birm*

Webb, K. R., BSc PhD *Lond.*

Balson, E. W., BSc *Lond*

Cartmell, E., BSc *Lond*

Parker, R. E., BSc PhD *Lond*

Cavell, E. A., BSc PhD *Lond*

Frey, B. A., DPhil *Oxon*

Stevens, I. D. R., BSc PhD *Glas.*

Kerridge, D. H., BSc PhD *Nott.*

Prof

Reader

Sr. Lectr.

Sr. Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Economics

Rowan, D. C., BA *Brist*

Pearce, I. F., BA *Brist*, PhD *Nott.*

Young, Agnes F., MA *Lev* (Econ. Theory) Prof.

Hodgson, R. A., BCom DPA *Lond.* (Soc. Studies) Sr. Lectr.

Thomas, C. J., BSc *Wales*, MSc(Econ) *Lond* (Comm. & Acctg.) Sr. Lectr.

Richards, P. G., BSc(Econ) *Lond*, PhD (Econ. Stats.) Sr. Lectr.

Benn, S. I., BSc(Econ) *Lond* (Govt) Sr. Lectr.

Trasler, G. B., BA *Exe*, BSc(Econ) (Govt) Lectr.

Hart, H., BA(Com) (Comm & Acctg) Lectr.

Dunning, J. H., BSc(Econ) *Lond*, PhD Lectr.

Butler, E. B., BSc(Econ) *Lond.* (Econ. Stats.) Lectr.

Davison, Evelyn H., BA *Lev*. (Soc. Studies) Lectr.

O'Connell, Patricia E. (Health Visitors' Course) †Lectr.

Vale, V., MA *Camb* (Soc. Studies) Lectr.

Broady, M., BA *Lev* (Soc. Studies) Lectr.

Denton, G. R., BA *Oxon.* Lectr.

Classics

Baldry, H. C., MA *Camb*

Whitaker, C. W., MA *Oxon.*

Douglas, A. E., MA *Oxon.*

Macleod, M. D., MA *Camb.*

Sparkes, B. A., BA PhD *Lond*

Prof.

Lectr.

Lectr.

Lectr.

Lectr.

Education

Wagner, F. W., MA *Oxon*, BSc *Adel.* Prof.

Pearcy, I. H., BSc *Lond* Lectr.

Hancox, Marguerita K., MA *Birm.* Lectr.

Rushby, J. G., BSc *Lond.* Lectr.

* Member of the Association of Universities of the British Commonwealth

Thomas, Mary A. E., BSc <i>Brist</i>	Lectr	Hanna, A. J., BA <i>Belf</i> , PhD <i>Lond</i>	Sr Lectr
Oades, Iris K., BA <i>Lond</i>	†Lectr	Merson, A. L., MA <i>Oxon</i>	Lectr
Richmond, P. E., BSc DipEd <i>Lond</i>	Lectr	Pugh, T. B., MA BLitt <i>Oxon</i>	Lectr
Brookes, N. M., BSc <i>Leeds</i> , DipEd		Mather, F. C., MA <i>Manc.</i>	Lectr.
MA <i>Lond</i>	Lectr	Blake, E. O., MA PhD <i>Camb</i>	Lectr.
Davies, W. J. F., MA <i>Wales</i>	Lectr	Ball, J. N., MA PhD <i>Camb</i>	†Lectr
Ricks, Elsie M.		Hand, G. H., MA <i>Dub</i> , DPhil <i>Oxon</i>	Lectr

(Phys Trg & Hyg, Women) †Asst	Lectr
Davies, V. S.	†
(Phys Trg. & Hyg, Men) †Asst	Lectr

Electronics

Zepher, E. E., DPhil <i>Wurzburg</i> , PhD	Prof
Punnett, S. W., BSc <i>Lond</i>	Sr. Lectr
Gambling, W. A., BSc PhD <i>Liv</i>	Sr Lectr.
Venning, B. H., BSc(Eng) <i>Lond</i>	Lectr
Vernon, E. V., BSc PhD	Lectr
Bloodworth, G. G., MA <i>Oxon</i>	Lectr.
Stachera, H. S., BSc(Eng) <i>Lond</i> .	Lectr.
Nicholls, K. G., MSc <i>Lond</i> .	Lectr.

Engineering, see below**English Language and Literature**

Prince, F. T., MA <i>Oxon</i>	Prof.
Brooks, K. R., MA DPhil <i>Oxon</i>	Sr. Lectr.
Sharrock, R. I., MA BLitt <i>Oxon</i> .	Sr Lectr.
Swannell, J. N., BA <i>Lond</i>	Lectr.
Osselson, N. E., BA <i>Lond</i> .	Lectr
Cook, D. J., MA <i>Lond</i> .	Lectr
Duncan, D. J. M., BA <i>Oxon</i> .	Lectr

French, see Romance Langs.**Geography**

Monkhouse, F. J., MA <i>Camb</i>	Prof
Tavener, L. E., MA <i>Camb</i> , PhD <i>Lond</i>	
Pelham, R. A., MA <i>Wales</i> , PhD <i>Birm</i>	Sr Lectr
Robinson, G. W. S., MA <i>Lond</i> .	Lectr
Large, D. C., MA <i>Syr</i> .	Lectr.
Small, R. J., BA <i>Camb</i> , PhD	Lectr
Barry, R. G., BA <i>Liv</i> , MSc <i>McG</i>	Asst. Lectr.

Geology

Hodson, F., BSc <i>Lond</i> , PhD <i>R'dg</i>	Prof.
Wisden, Dorothy E., MSc, FGS	Lectr
Shelford, P. H., BSc DipEd <i>R'dg</i> .	Lectr
Coagrove, M. E., BSc <i>Lond</i>	Lectr
Moore, D., BSc PhD <i>Leeds</i>	Lectr

German

Lucas, W. I., MA <i>Brist</i> , PhD <i>Heidel</i> .	Prof
Wilson, W. L., MA <i>Edin</i>	Lectr
Papst, E. E., MA <i>Cape T</i>	Lectr
White, D. V., MA <i>Birm</i>	Lectr.
Oades, Iris K., BA <i>Lond</i>	†Lectr.
2 Lectors	

History

Rothwell, H., BA <i>Manc</i> , PhD <i>Camb</i>	Prof
Bromley, J. S., MA <i>Oxon</i> , FRHistS	
(Mod H) Prof.	
Patterson, A. T., MA <i>Durh</i> .	Reader

Legal Studies

Phillips, A., OBE, JP, MA <i>Oxon</i> , PhD <i>Lond</i>	Prof., Dir
Martin, A., LLD DrPolSci <i>Bud</i> , PhD <i>Lond</i> .	†Reader
Wilson, J. F., MA <i>Oxon</i>	Sr. Lectr.
Samuels, H. A., BA <i>Camb</i>	Lectr.
Ganz, Gabriele, LLM <i>Lond</i> .	Lectr.
Dyer, L. M., BA	†Lectr
Gerard, Antonia S.	†Lectr
Myers, M., MA	†Lectr
Ainger, D. W. D., BA <i>Oxon</i>	†Lectr
Cameron, Sheila, BA <i>Oxon</i>	†Lectr

Mathematics, Pure and Applied

Davies, E. T., DSc PhD <i>Lond</i> , DMath <i>Rome</i> (Pure M) Prof.	
Jahn, H. A., MSc <i>Lond</i> , PhD <i>Loip</i> (Appl M) Prof	
Thwaites, B., MA <i>Camb</i> , PhD <i>Lond</i> (Theoret. Mechanics) Prof	
Clark, R. S., MSc <i>Lond</i> , PhD <i>Camb</i> .	Sr. Lectr
Wilson, Mrs Nancy, MA <i>Edin</i> .	Lectr
Davies, H. J., BSc PhD <i>Wales</i>	Lectr
Brickell, F., BSc PhD <i>Lond</i>	Lectr.
Schonland, D., BSc <i>Rhodes</i> , MA PhD <i>Birm</i> .	Lectr
Deicke, A. W.	Lectr.
Cohen, L., MA <i>Camb</i> , PhD <i>Manc</i>	Lectr.
Rhodes, F., BSc PhD <i>Liv</i> .	Lectr
Elliot, J. P., PhD <i>Lond</i>	Lectr
Heading, J., MA PhD <i>Camb</i>	Lectr.
Marder, L., PhD <i>Lond</i> , BSc	Lectr
Gribben, R. J., BSc PhD <i>Manc</i> .	Lectr.
Baston, V. J. D., BSc <i>Birm</i>	Lectr
Holstein, H., PhD <i>Gött</i>	Lectr
Maunder, C. R. F., BA <i>Camb</i> .	Lectr

Computation

Samet, P. A., BSc <i>Manc</i> , PhD <i>Camb</i>	Dir
Cleave, J. P., PhD <i>Lond</i> , BSc	Lectr
Willis, J. B., BSc <i>Lond</i> .	Lectr

Music

Evans, P. A., MA DMus <i>Durh</i> , FRCO	Prof
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Philosophy

MacIver, A. M., MA <i>Oxon</i>	Prof.
Manser, A. R., MA BPhil <i>Oxon</i>	Lectr
Robinson, G. L., MA <i>Hav</i> .	Lectr.

Physics

Taylor, A. M., MA PhD <i>Camb</i> , FIP	Prof
Hutchinson, G. W., MA PhD <i>Camb</i>	Prof
Weintroub, S., MA <i>Oxon</i> , FIP	Sr Lectr
Jerrard, H. G., BSc <i>Lond</i>	Sr. Lectr
McNeill, D. R., MSc PhD <i>Belf</i>	Lectr.

Kellner, K, PhD <i>Edin</i>	Lectr.
Myers, W. R, MSc <i>Lond</i>	Lectr.
Mercer, D. M. A., BSc <i>Lond</i> , MA <i>Camb.</i>	Lectr.
Scurluck, R. G., BSc DPhil <i>Oxon</i>	Lectr.
Hopkins, B. J, MSc <i>Birm.</i>	Lectr.
Mee, C. H. B., BA <i>Camb.</i> , MSc <i>Birm.</i>	Asst. Lectr.

Physiology and Biochemistry

Munday, K. R, BSc <i>Manc.</i> , PhD <i>Aberd.</i>	Sr Lectr., Hd of Dept
Kerkut, G. A., MA PhD <i>Camb.</i>	Sr Lectr.
Beechey, R. B., BSc PhD <i>Leeds</i>	Lectr.
Clements, A. N., BSc <i>Brist.</i> , PhD <i>Camb.</i>	Lectr.

Romance Languages and Literatures**French**

Hackett, C. A., MA <i>Camb.</i> , DUParis	Prof in charge of Romance
Beaumont, E., MA PhD <i>Lond</i>	Sr Lectr.
Cruckshank, J., MA PhD <i>Dub.</i>	Sr Lectr.
Foster, B., MA <i>Durb.</i> , DUParis	Lectr.
Scott, J. W., BA <i>Leeds</i>	Lectr.
Hall, Kathleen M., MA DPhil <i>Oxon</i>	Lectr.
Falvey, J. F., BA <i>Nott</i>	Lectr.
Eastman, Mrs Simone P.	Lectrice
2 Lecteurs	
Spanish	
Kerr, R. J. A., MA <i>Glas</i>	Lectr.
Moir, D. W., MA <i>Aberd.</i>	Lectr.
1 Lectr	

Theology

Parkinson, Rev K. E. H., MTh BD <i>Lond</i>	† Lectr.
---	----------

Zoology

Raymont, J. E. G., BSc <i>Lond</i> , AM <i>Harv.</i>	Prof.
Hall, R. E., BSc <i>Lond</i>	Lectr.
Hockley, A. R., BSc <i>Lond</i>	Lectr.
Fairbairn, W. J., BSc <i>St. And</i>	Lectr.
Delany, M. J., MSc <i>Manc.</i>	Lectr.
Shelton, G., PhD <i>Camb.</i>	Lectr.

ENGINEERING**Aeronautics and Astronautics**

Richards, E. J., OBE, MA <i>Camb.</i> , DSc <i>Wales</i>	Prof
Davies, P. O. A. L., BE <i>Syd</i> , PhD <i>Camb.</i>	Sr Res Fellow
Jones, J. P., BSc(Eng) <i>Lond</i> , PhD	Reader
Curle, S. N., PhD <i>Manc</i>	Reader
Bray, K. N. C., BA MSc(Eng)	Sr Lectr.
Tanner, T.	Lectr.
Mead, D. J.	Lectr.
Torbe, I., MSc <i>Lond</i>	Lectr.
Clarkson, B. L., BSc PhD <i>Leeds</i>	Lectr.
Parks, P. C., BA <i>Camb.</i>	Lectr.

2 Q

Appleton, J. P., BSc PhD	Lectr.
Doak, P. E., MS(Phys) <i>Oklahoma</i>	Lectr.
3 Res Fellows	

Engineering, Civil

Morice, P. B., BSc <i>Brist.</i> , PhD <i>Lond.</i>	Prof.
Tottenham, H., MA <i>Camb</i>	Reader
Tate, A. P. K., BSc(Eng) <i>Lond</i>	Lectr.
Webber, N. B., BSc(Eng) <i>Lond</i>	Lectr.
Rydzewski, J. R., BSc PhD <i>Camb</i>	Lectr.
Allen, H. G., BSc PhD <i>Liv.</i>	Lectr.
Smith, K. V. H., MSc <i>Lond</i>	Lectr.

Engineering, Electrical

Sims, L. G. A., PhD DSc <i>Birm</i>	Prof
Steven, R. E., BSc <i>Belf</i>	Lectr.
Yorke, R., BSc <i>Lond</i> , BEng <i>Sheff.</i>	Lectr.
Morphew, K. L., BSc(Eng) <i>Lond.</i>	Lectr.
Weedy, B. M., BSc(Eng) <i>Lond.</i>	Lectr.
Morgan, K., BSc MSc(Eng) <i>Lond.</i>	Lectr.
Ward, E. E., BSc PhD <i>Birm.</i>	Lectr.
Carré, B. A., BA <i>Oxon</i>	Lectr.

Engineering, Mechanical

Black, A. N., MA <i>Camb</i>	Prof, Admin Hd. of Engin. Depts
Grassam, N. S., BSc(Eng) PhD <i>Lond.</i>	Sr Lectr.
Sara, H. J., BSc(Eng) <i>Lond</i>	Lectr.
Helmer, C. H., BSc(Eng) <i>Lond</i>	Lectr.
Williams, T. R. G., MSc <i>Wales</i>	Lectr.
Jolley, E. S.	Lectr.
Foyle, R. J., BSc(Eng) PhD <i>Lond.</i>	Lectr.
Hunt, J. B., BSc(Eng) <i>Lond</i>	Lectr.
Page, R. W., BSc <i>Brist</i>	Lectr.
Spencer, G. C., BSc <i>Lond</i>	Lectr.
Thew, M. T., BSc <i>Lond.</i>	Lectr.

INSTITUTE OF EDUCATION

Wagner, F. W., MA <i>Oxon</i> , BSc <i>Adel</i>	Dir.
Hicks, W. C. R., BA <i>Lond</i> , DrPhil <i>Erlangen</i>	Sec., Dep. Dir
Lobb, K. M., MA PhD <i>Lond</i>	Staff Tutor
Evans, E. G. S., MA PhD <i>Birm</i>	Lectr., Tutor
Douch, R., MA <i>Lond</i>	Lectr.

ADULT EDUCATION

Dir. H. J. Trump, MA <i>Camb</i>	Tutor
Organizers. J. R. Armstrong, MA <i>Camb.</i> , R Mullins, BA <i>Lond.</i> , A. G. Geddes, BA <i>Lond</i> , P. J. De Grouchy, MA <i>Oxon.</i> ; E. Course, BSc(Econ) <i>Lond</i> , PhD, K. F. Jay, BA <i>Lond</i> , LL.D. <i>Leip.</i> , F. A. Ollett, MA <i>Camb</i> ; E. C. Read, MA <i>Camb</i> , BSc(Econ) <i>Lond</i> Res. Tutors with H.M. Forces. D. C. Hawkins, BSc(Econ) <i>Lond</i> , D. W. Braddock, BA <i>Birm.</i> , E. M. G. Belfield, MA <i>Oxon</i> , E. J. Feuchtwanger, MA <i>Camb.</i> , PhD	

ADMINISTRATIVE AND OTHER STAFF

Asst Sec Mrs. Nancy H. Hall. Asst. Sec & Tech. Officer J. V. Smith. Works & Bldgs Officer J. P. Halliwell, BArch. Lw. Asst Works & Bldgs Officers D. H. Bradnam, R. Whitehorn. Admin Assts: D. A. Schofield, MA, E. A. Lewis, MA. *Glas* Asst Finance Officer J. H. Dalby. Apprs Officer L. E. Tavener, MA. *Camb.*, PhD. *Lond* Secretary's Private Sec Mary E. Pearce. Librarian, Inst. of Educn Joan V. Best, BA. *Brist.* Admin Asst, Inst of Educn Mrs. Theodora F. Cormack. Admin Asst to Dir of Adult Educn. Ethel V. Turner, BA. *Lond* Clerk of Works H. C. Doman. Lodgings Officer: Dyls B. E. Jenkins, BA. *Lond*.

DipEd. *Hull*. Adviser to Overseas Students. Prof. A. Phillips, MA. *Oxon*, PhD. *Lond*.

LIBRARY. Dep. Librarian R. G. Woods, MA. *Camb*. Sr. Asst. Librarians: A. Anderson, MA. *Edm*, D. M. Ellis, BA. *Wales*; M. B. Line, MA. *Oxon*.

WARDENS OF HALLS OF RESIDENCE J. N. Ball, MA. PhD. *Camb.* (Connaught Hall), Elizabeth U. Lightbody, MA. *Edm* (Highfield Hall), V. Vale, MA. *Camb* (South Stoneham House), H. C. H. Mead, BA. *Camb* (Glen Eyre Hall), Iris K. Oades, BA. *Lond*. (Chamberlain Hall).

GENERAL INFORMATION

The univ. originated in the Hartley Instn. which was established from a bequest by H. R. Hartley, son of a Southampton wine merchant, who died in 1850. The instn. opened in 1862, was incorporated in 1902 under a scheme of the Bd. of Educn as the Hartley Univ. Coll. at Southampton, and from that date until the estab. of the univ. students read for the external degrees of London Univ. The coll. was accomm. in the premises in the High St. built for the instn. until 1919 when it moved to the present site at Highfield, 2 mls. from the centre of the town. In 1953 the coll. was merged in the Univ. of Southampton, constituted by royal charter in 1952.

CONSTITUTION. The court is the supreme governing body of the univ. and the council is the executive body, managing revenue and property subject to statutes and to control of court. The senate regulates and superintends educn and discipline subject to statutes and to approval of council. The chancellor, elected by court on nomination of council, is the chief officer of the univ. and the pro-chancellors exercise the functions of the chancellor in his absence. The vice-chancellor, apptd by council, is the principal academic and admin. officer and is *ex-officio* chairman of senate. Bds. of facs regulate, subject to review by senate, the teaching of subs. assigned to them. The registered grads and academic staff of the univ. form convocation which may report its views on any matter relating to the univ. to the appropriate body.

INCOME (1959-60). Total income (excl. income from tech. educn and halls of residence), £717,888 (Treasury grant, 72.7 per cent; local authority grants, 3.8 per cent; fees, 12.3 per cent; endowments, 0.4 per cent; other sources, incl. external res. grants & contracts, 10.8 per cent.)

FACULTIES AND DEANS (1961-62). *Arts*, Prof. H. C. Baldry (classics), *econ.*, Prof. D. C. Rowan, *educn.*, Prof. F. W. Wagner; *engin.*, Prof. P. B.

Morice (civil engin.); *law*, Prof. A. Phillips; *sci.*, Prof. J. E. G. Rayment (zool).

UNIVERSITY PRECINCT (*see also above*). The main bldg., opened in 1935, houses the libr. with depts. of the facs of arts in adjacent wings. The other teaching bldgs. and the union bldg. are in the same area, occupying in all about 30 acres. It is hoped to acquire adjacent ground for future academic depts. The halls of residence and Montefiore and Wellington sports grounds (35 acres) are within 1-2 mls. of the main area.

LIBRARY. Main libr. and dept. librs. about 140,000 vols. Current periodicals about 1250. The Ford collection of British parliamentary papers includes a bound set of sess. papers, 1801 to date, and collections of non-parliamentary papers and duplicate sets of annual and statistical reports. It is housed in a libr. adjoining the dept. of econ.

MUSEUM ZOO

LABORATORIES. Bot., chem., electronics, engin. (civil, electr., mech., aeronaut.), geol., phys., physiol., zool.; animal house, bot. gdn., Pegasus computer, hydraulic tidal model.

ADMISSION. *See* Appendix III.

FIRST DEGREES. BA—all students are candidates for an hon. degree, which may be taken in the following single hon. schools: classics, Engl., French, geog., German, Greek, hist., Latin, maths., philos., or in any of the following combined hon. schools: Engl. & French or German, Engl. & Greek, Engl. & Latin, Engl. & hist., Engl. & music, Engl. & philos., French & German, French & Latin, French with hist., French & music, French & Spanish, French & philos., geog. & hist., German & Greek, German & Latin, German & philos., German with hist., German & music, Greek & philos., Latin & philos., mod. hist. with pol. & econ., mod. hist. & music, hist. & philos., Latin & Spanish, Latin & mediæv. hist., philos. & pol., philos. & pure maths., Spanish with hist., BSc. ordinary (entry only).

from 1st yr on BSc (hons course)—2 subjs for 3 yrs. in all, with hist & methods of sci for 1 yr., BSc (hons. (pt I exam at end of yr., pt II at end of 3rd yr)—may be taken in bot., chem., electronics, geog., geol., maths. (pure & appl.), maths with aeronautics, phys., physiol. & biochem., zool., BSc(Eng)—ordinary and hons. (civil, elect., mech., aeronaut., struct. engin.). BSc (Social Sciences)—hons and pass, BA(Law)—hons. and pass. All degrees, except BA in French and some combinations with French, are awarded after a 3-yr course provided that certain entrance requirements, particularly for hons courses, are met. BA hons in French requires 4 yrs of study, the 3rd yr being spent in France.

For BSc(Eng) many students spend a yr. in industry between leaving sch. and entering the univ., usually a 2nd yr. in industry follows the univ. course, but some students spend their 2nd yr in industry between the 2nd and 3rd yrs of the univ. course.

All undergrad freshmen on 1st degree courses attend, outside their own fac., a series of open lectures followed by informal evg discussions, and other activities connected with these lectures.

The LLB is awarded as a 2nd degree after a further period of study extending over not less than 3 academic terms and following completion of BA(Law) of the univ. Holders of the BA(Law) degree may apply for exemption from certain subjs. in pt I of the Bar exams, and from certain requirements laid down by the Law Soc. for solicitors & attested clerks.

HIGHER DEGREES MA, MSc, MSc(Eng), MSc(Social Sciences), MA(Ed), LL.M (1-2 yrs after bachelorship), open to grads of the univ. and of other approved univs., MSc, MSc(Eng) and PhD in facs of sci and engin also open to non-grads on certain conditions and with sp approval; MSc may, with sp permission, be taken by grads after a further 3 mos' study following the dipl course in electronics or in numerical analysis & automatic computing. MSc (Eng) may be taken after a course of not less than 12 mos. in vibration & noise studies. PhD (2 yrs), open to grads of U.K. univs and other approved univs. Degrees of master or of PhD may with sp permission be taken on a pt-time basis (36 calendar mos) by grads. This permission is not accorded to non-grads., grads of the univ. may obtain DLitt, DSc and LLD 6 yrs after 1st graduation.

The univ. does not award EXTERNAL DEGREES

SPECIAL PROVISIONS Sp provision for aeronautical instructn (low and high speed wind tunnels); aircraft manufacturing firms in district provide opportunities for keeping in close touch with practical aircraft constructn.

DIPLOMAS. Soc studies, 1 calendar yr. postgrad., electronics, 1 yr postgrad., numerical analysis & automatic computing, 1 yr postgrad.; vibration & noise studies, 1 calendar yr postgrad., pub. admin., 2 yrs (pt-time courses arranged for

local govt. officers); educn., 3 yrs pt-time for qualified teachers, art teachers, 1 yr. Last 2 awarded by Inst. of Educn.

CERTIFICATES. Soc casework, 1 calendar yr.; soc studies, 2 yrs., Inst. of Educn. cert in educn., 1 yr postgrad. Students who have obtained the cert in soc casework may undertake a further 4 mos' course in mental health, the satisfactory completion of which will be separately recorded.

OTHER COURSES Health visitors' course in co-operation with public health authorities of the surrounding area, the univ. offers a 1-yr. course leading to the exam for health visitor cert of the Royal Soc of Health. Course of integrated nurse/health visitor trg organized jly by the univ. and the Nightingale Trg Sch at St Thomas's Hosp., London. course covers 4 yrs 9 mos., final quals include SRN, pt I of CMB, and health visitor cert of the Royal Soc. of Health. Further particulars of these courses obtainable from the principal tutor to the health visitors' course.

ALLIANCES Regular schemes for exchange of students with univs of Hamburg and Kansas.

STUDY LEAVE. One term's leave of absence may be granted subject to satisfactory provisions for continuity of teaching.

FEES *Inclusive annual fees* (covering matric., registration, tuition, exams, and graduation, but not students' union sub.). Bachelor's degrees in arts, soc scis and law, £50, sci and engin., £60. Dipls. soc studies, £50, electronics, numerical analysis & automatic computing and vibration & noise studies, £60, pub. admin., full-time £50, pt-time £15. Certs soc casework, £65, with addnl fee of £20 for psychiatric course work, soc studies, £50. Higher degrees £30 without lab facilities, £40 with lab facilities. Students' union fee (compulsory), £5 5s p a.

ACADEMIC YEAR Oct to July; 3 terms of 10 weeks each.

ADULT EDUCATION (see also 'Teaching Staff', above). The dept. of adult educn. provides courses covering a wide range of non-vocational subjs. for groups of adult students in Hampshire, W Sussex, E Dorset and the Isle of Wight. Extension courses and tutorial classes are organized under the direction of the Jt Cttee. for Adult Educn. The panel of extension lectrs. and tutors includes members of the univ. staff and other approved teachers.

INSTITUTE OF EDUCATION (see also 'Teaching Staff', above). *Constituent members:* Univ Dept of Educn.; Bognor Regs Trg Coll., Bournemouth Coll of Art; City of Portsmouth Trg Coll.; Avenue Trg Coll., Southampton; Trg. Coll., Weymouth, King Alfred's Coll., Winchester. *Associated coll* Southern Coll. of Art, Marsh Lane, Southampton.

STUDENTS' UNION All full-time students are required to be members of the students' union,

which is responsible for the orgn. of various soc., cultural and athletic activities.

ATHLETIC UNION Facilities are provided for all the union branches of sport, including rugby and association football, cricket, rowing, hockey, tennis and athletics.

SCHOLARSHIPS AND EXHIBITIONS The Univ. offers annually, on the results of a competitive exam held in Feb., (a) 24 open scholcs. of values from £40 to £100, all tenable for 3 yrs. and supplemented by the Ministry of Educn. covering fees and maintenance costs according to a recognized income scale; (b) 4 open exhibitions; 4 exhibitions to candidates resident in borough of Southampton, 2 social studies exhibitions. Exhibitions are of the value of free tuition.

POSTGRADUATE AWARDS open to grads. of other univs: see p 808

LOAN FUND. A fund is available to help sr students in need of financial assistance.

HALLS OF RESIDENCE (For wardens, see 'Admin. and Other Staff', above) All full-time students must ordinarily reside in one of the halls of residence or in approved lodgings, unless living with parents or guardians in Southampton. The halls are for women—Highfield Hall, Omdurman Rd., Southampton, 108 places (tel. Southampton 55483), Chamberlain Hall, Glen Eyre Rd., Southampton, 180 places (tel. Southampton 69564), for men—Connaught Hall, Swaythling, Southampton, 127 places (tel. Southampton 54402), South Stoneham House,

Swaythling, Southampton, 200 places (tel.: Southampton 55627); Glen Eyre Hall, Glen Eyre Rd., Bassett, Southampton, 250 places (tel. Southampton 68959). Fees for session women, £130, men, £130-£135, not incl. lunches or teas.

UNIVERSITY AIR SQUADRON The Univ. squadron was established in 1941. Membership is open to all students. All entrants become members of the R A F V R C.O.—S/Ldr. A. A. Pearce.

THE HARTLEY SOCIETY This is a former students' assocn., membership of which is open to all former students. There is a branch in London.

STUDENTS' HEALTH There is no fully established health service, but each hall of residence has its med. officer, and arrangements are made for the mass radiography of all students.

APPOINTMENTS BOARD (For appts. officer, see 'Admin. and Other Staff', above) The bd. advises students about careers, collects and distributes information on vacancies in employment, establishes contact with technical firms, business houses, govt. depts., etc., with a view to placing students in employment.

SCHOOL OF NAVIGATION, Warsash, Southampton. Dir. Capt G W. Wakeford; hd of dept. Capt A. Nichols, dep. dir. & hd of jr dept. Capt H. Stewart.

PUBLICATIONS *Calendar* (Oct.), 10s. 6d.; *Proceedings* (Dec.) Students' Union *Wessex News* (fortnightly), *Second Wessex* (annual mag)

THE YEAR 1960

NEW CHAIRS Philos., phys (2nd), econ (2nd)

RETIREMENTS Prof P. Ford (econ.), Prof W. E. Armstrong (econ.); D. C. Williams (music), C. E. Chester (electr. engin.); J. Parker (adult educn.).

RESIGNATIONS Marjory I. Henderson (librarian), Dr W. H. Cockcroft (maths), apptd. to chair of maths, Hull; A. F. Cook (mech. engin.), apptd. head of engin. dept., Flintshire Tech. Coll.; R. O'Malley (educn.), apptd. lectr., Camb.; P. N. Ray (civil engin.); E. M. Wilson (maths), apptd. principal scientific officer, Admiralty.

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	1183	54
Women . . .	460	7
Total . . .	1643	61

Distribution by Faculties Arts, 399; econ *,

208, educn, 113, engin., 305, law, 80, sci, 599. Total. 1704

Included in the figures above are:—

Postgraduate students, 329

New admissions, 639 (604 full-time, 35 pt-time).

Students from other countries, 100 (88 full-time, 12 pt-time) (Countries from which largest numbers came Nigeria, 13, India, 9, Germany, 9)

DEGREES AWARDED (1959-60) Arts: BA, 22, BA (hons), 98. Econ. BSc(Econ), 26; MSc(Econ), 1. Educn. MA(Educ), 4. Engin.: BSc(Eng) ord., 30; BSc(Eng) hons., 61, MSc(Eng), 1. Law: BA(Law), 14. Sci.: BSc(gen), 34, BSc(spec), 96; MSc, 5. PhD (all facs). 21. Total number of first degrees awarded, 381.

DIPLOMAS AWARDED (1959-60) Electronics, 15; soc. studies, 2.

CERTIFICATES AWARDED (1959-60). Postgrad. cert. in educn., 92, soc. casework, 10; soc. studies, 15; health visitors (Royal Soc of Health), 8.

* The title of the Fac. of Econ. will be altered to the 'Fac. of Social Sciences' from Oct. 1962

UNIVERSITY OF SUSSEX

Founded 1961, previously established as University College of Sussex *

Postal Address . Stanmer House, Stagmer, Brighton, England

Telephone : Brighton 61673

VISITOR—H.M. THE QUEEN

CHANCELLOR—The Rt. Hon. THE VISCOUNT MONCKTON OF BRENCLEY, KCMG, KCVO, MC, QC,
MA Hon DCL *Oxon*, Hon LLD *Brist*

CHAIRMAN OF THE COUNCIL—Alderman S. M. CAFFEYN, CBE, ARSM

VICE-CHANCELLOR—J S FULTON, MA *Oxon*

REGISTRAR—A. E SHIELDS, MBE, MA *Camb.*

LIBRARIAN—D. COX, BA *Durh.*

TEACHING STAFF

Chemistry		History	
Eaborn, C, PhD DSc <i>Wales</i>	Prof.	Briggs, A, MA <i>Oxon</i> & <i>Camb</i> , BSc(Econ) <i>Lond</i> , FRHistS	Prof
Economics		Wight, R. J M., BA <i>Oxon</i> (European H.)	Prof
Lipton, M, BA <i>Oxon</i> .	Asst. Lectr	Hutt, M G, MA BLitt <i>Oxon</i>	Lectr
English		Philosophy	
Daiches, D, MA <i>Edin</i> & <i>Oxon</i> , DPhil	Prof	Corbett, J P, MA <i>Oxon</i>	Prof.
<i>Oxon</i>	Lectr		
Ross, A M, MA <i>St And</i> , PhD <i>Camb</i>			
French		Physics	
John, S., MA <i>Wales</i>	Lectr	Smith, K F, MA PhD <i>Camb</i>	(Exper. P.) Prof.
German		Blin-Stoyle, R J, MA DPhil <i>Oxon</i> .	(Theoret. P.) Prof.
Thorlby, A. K., MA <i>Camb.</i> , PhD <i>Yale</i>	Lectr		

ADMINISTRATIVE AND OTHER STAFF

Bldgs Officer. T. C Green, BArch <i>Lov.</i>	Assts. G. Lockwood, BSc(Econ) <i>Lond.</i> ; Mary
Accountant R S Howard, MA <i>Camb</i> Sub-	M Coppinger, BSc <i>Lond.</i> ; E J Leck, R M.
Librarian A Blamire, MA <i>Oxon</i> . Admin	Mawditt

GENERAL INFORMATION

The idea of a Univ Coll. of Sussex was first discussed in 1911, when it was suggested that such a coll. should be establd at Brighton and recognized as a constituent part of the Univ. of London. An appeal for funds was launched and about £2800 was collected, but on the outbreak of the first world war the proposal fell into abeyance. It was not revived until after the second world war, when the rapid development of the Brighton Tech. Coll. gave rise to a proposal that that instn. should

be developed into a univ coll. This idea was not favourably received by the Univ Grants Cttee and the Ministry of Educn., and in 1948 it was agreed by the Brighton Borough Council that the ultimate aim should be to have a separate univ instn. No further action was taken, however, until 1955, by which time national needs were pointing to the necessity for a considerable expansion of univ educn. during the decade beginning 1961. In 1956, as the result of an approach by the

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Brighton Borough Council to the other local authorities in Sussex, a joint cttee. was formed to take further action to found a univ coll. An approach was made to the Univ. Grants Cttee., which, after satisfying itself on various aspects of this proposal, finally, on July 1, 1958, gave its formal approval to the establishment of the coll. The joint cttee. was then reconstituted as a provisional coll. council, and the coll. obtained interim legal status when, in May 1959, it was registered under the Companies Act as a Limited Liability Company, the members of the council being the drs. of the company. In Jan 1961, a petition was presented to H M the Queen praying for a royal charter of incorporation as a univ. The charter was granted and came into force on Aug. 16, 1961.

CONSTITUTION The univ. consists of a court, council and senate, and the usual univ. officers. Council is the governing body, powers of court being limited to election of chancellor, pro-chancellors, treasurer and some members of council. In order to guarantee satisfactory academic standards, there is also an academic advisory cttee. which will be an integral part of the univ.'s constitution for a limited period. This cttee. consists of 5 or 6 persons of high academic standing and has the duty of advising the council and senate on academic matters, incl. the institution of degrees, the appt. of sr. members of staff and the conduct of exams.

INCOME The 5 local educn. authorities in Sussex contribute between them an annual sum of about £40,000 towards the recurrent expenditure of the univ. The Univ. Grants Cttee. has undertaken to meet the remaining essential recurrent expenditure from 1961-62. The Univ. Grants Cttee. has also set aside £2 million to provide bldgs. (other than student residences) for the univ. during the period 1960-63. A public appeal was launched at the end of 1960 to obtain funds primarily for student residences; the target was £500,000.

DEANS There are no depts. in the univ. The fac. of arts is organized into 3 schs.—Engl. studies, European studies and soc. studies. Each sch. is presided over by a dean. *Engl. studies,*

Prof. D. Daiches; *European studies*, Prof. R. J. M. Wight (European hist.), *soc. studies*, Prof. A. Briggs (hist.)

SITE AND BUILDINGS Work on the first 2 bldgs.—Coll. House (the social and recreational centre), and the phys. bldg.—commenced in Dec. 1960. These bldgs. should be completed by Oct. 1962. 4 more bldgs.—chem., engin., arts and library—should be completed by Oct. 1964. In 1961-62, teaching is being carried on in rented premises. All the permanent bldgs. will be erected on the univ. site of about 200 acres at Falmer, between Brighton and Lewes. Of this, 150 acres have been leased to the univ. for 999 years by the Brighton Corp., and the remainder has been purchased.

ADMISSION. See Appendix III.

FIRST DEGREES. At the outset, the univ. will have 2 facs. arts and sci. Arts studies leading to an honours degree of BA (taking 3 yrs.) will be organized in 3 schools—English studies, European studies and soc. studies—the intention being to ensure that the necessary specialization is accompanied by a desirable breadth of approach, through the co-operation of different subject specialists in a common degree course. BSc degree studies will include pure maths., appl. maths., phys., chem. and biol. A student taking a first honours degree in sci. will be required to study 3 of these subs., together with some hist. of sci. or soc. sci., for 3 yrs., a limited number of students will be able to specialize in one of the subs. for an extra yr. and obtain a second honours degree. A course (taking 3 yrs.) leading to a degree in engin. sci. (without specialization) will also be offered.

HIGHER DEGREES Courses leading to degrees of master and doctor will be made available at the earliest practicable date. The MA degree will require at least 1 yr. of study or res. after the honours degree and the PhD or DPhil degree at least 2 yrs.' study or res. after the honours degree.

STUDENTS The first students (about 50) were accepted in Oct. 1961, in arts only. Students in arts and sci. (about 200 p.a. each) will be accepted from Oct. 1962.

PUBLICATIONS *Prospectus*

UNIVERSITY OF YORK

Postal Address . The King's Manor, York
Telephone York 59861

CHAIRMAN OF YORK UNIVERSITY PROMOTION COMMITTEE—The ARCHBISHOP OF YORK, The most Rev
F D COGAN, MA Camb, BD Tor, Hon DD Leeds & Tor
VICE-CHANCELLOR—The Rt Hon LORD JAMES OF RUSHOLME, MA DPhil Oxon, Hon LLD McG.
REGISTRAR—J. P WEST-TAYLOR, MA Camb

TEACHING STAFF

Architecture

Nuttgens, P J., MA PhD Edin
Dir, Inst. of Advanced Archit Studies,
Reader
Broadbent, G H, BA Manc Lectr.

Economics

Peacock, A. T, DSC, MA St.And
(from Oct 1, 1962) Prof

Education

Rée, H., DSO, OBE, BA Camb
(from 1963) Prof

English

Brookbank, J P, MA PhD Camb.
(from Oct 1, 1962) Prof

History

Purvis, J S, OBE, MA DD Camb, FSA,
FRHistS Dir, Borthwick Inst of Hist. Res
Gurney, Mrs. N K M, MA Oxon Lectr

GENERAL INFORMATION

The earliest recorded petition for a Univ of York was made to James I in 1617 and was followed by a petition to parliament in 1652. In 1947 a deputation from the city of York was received by the Univ Grants Cttee, and a planning cttee was set up. This was taken over by York Civic Trust in 1949 and became their academic devel cttee. In the same yr summer schools in hist. res and archit. study were held. The Borthwick Inst. of Hist. Res and the Inst. of Advanced Archit. Studies were both establd. in 1953. The academic devel cttee hived off from York Civic Trust in 1956 and became York Academic Trust. In 1959 the trust made an informal approach to the Univ Grants Cttee., and in Nov, York Univ Promotion Cttee, representing a wide range of local interests, was formed. In Dec a formal approach was made to the Univ Grants Cttee. and on April 19, 1960, the establd of the univ. was officially approved. The univ's academic planning bd, under chairmanship of Lord Robbins, was apptd in Sept. 1960.

CONSTITUTION A petition for a royal charter of incorporation will be presented during 1962. The draft of the charter provides for govt by court, council, professorial bd and gen academic bd, with the usual officers. The univ will award

its own degrees from the start. During the early yrs there will be an academic advisory cttee., consisting of persons of high academic standing, to guarantee maintenance of satisfactory academic standards.

COLLEGIATE SYSTEM. There is to be a collegiate system whereby every student and every member of staff will be attached to a coll. It is hoped that there will be built up round each coll a body of tradition and loyalties which will carry with it many of soc advantages of the older collegiate system without entailing its academic duplications and rigidity. Teaching will be organized centrally by the univ., but in some subjs will take place within the colls, rather than in separate blocks of lecture rooms.

INCOME Univ Grants Cttee has undertaken to provide recurrent grants from Oct 1962. The county authorities of York and the 3 Ridings of Yorkshire have promised initial annual contributions of £34,000. More than £450,000 has already been offered to the univ from charitable trusts and public companies in York. A public appeal for funds, primarily for bldg purposes, will be launched in 1962.

ADMISSION Details of admission requirements will be announced in 1962.

STUDIES. First degree courses will comprise a major subj. and one or more cognate subsidiaries. Range of subjs will comprise arts, nat scis and soc studies, and a rigid division into facs will be avoided. Strong emphasis will be given to the tutorial system. It is proposed that students of proved ability should be granted a fourth year of trg leading to an MA.

STUDENTS. The first students (about 200) will be accepted in Oct 1963 in arts and soc studies

only, with a further 200 in 1964. From 1965 students in sci will also be accepted.

SITE AND BUILDING. The univ has an initial site of 184 acres at Heslington, within a mile of the city walls. Heslington Hall and the King's Manor in York are two historic bldgs which will house the first 2 colls. At least 2 new coll bldgs will be erected at Heslington by 1965, along with sci labs.

UNIVERSITY OF WALES*

Founded 1893

Postal Address : University Registry, Cathays Park, Cardiff, Wales

Cables and Telegrams University Registry, Cardiff

Telephone . Cardiff 22656-7

VISITOR—H.M. THE QUEEN

CHANCELLOR—H.R.H. THE DUKE OF EDINBURGH, KG, KT, GMBE, Hon LLD *Edin & Wales*, Hon. DSc *Delhi*, FRS

PRO-CHANCELLOR—The Rt Hon LORD MORRIS OF BORTH-Y-GEST, CBE, MC, LLD

VICE-CHANCELLOR—Principal T. PARRY, DLitt, FBA, University College of Wales, Aberystwyth

WARDEN OF THE GUILD OF GRADUATES—Rev Principal W. T. PENNAR DAVIES, BLitt *Oxon*, PhD *Yale*, BA

DEAN OF DIVINITY—D. R. AP THOMAS, MA *Oxon*, BD *Lond*, BA

REGISTRAR— . .

SECRETARY TO THE COUNCIL—ELWYN DAVIES, MSc PhD *Manc.*, MA

ADMINISTRATIVE AND OTHER STAFF

UNIV. APPOINTMENTS BD Sec H. B. PUTT, BA *Brus.*, Univ. Registry, Cathays Park, Cardiff (tel. Cardiff 22656) UNIV. SCHOOL OF EDUCN Sec A. DAVIES, BA, Univ. Registry, Cathays Park, Cardiff (tel. Cardiff 22656) CHIEF MED

OFFICER FOR STUDENT WELFARE G. GRANT, MB BS *Lond.* Assts. R. A. N. HITCHENS, MD DPH; Edith McKnight, BSc MB ChB DPH *Glas*, Inst. of Preventive Medicine, The Parade, Cardiff (tel. Cardiff 29268).

CONSTITUENT COLLEGES

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH . see p. 1196

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR . see p. 1201.

UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF . see p. 1205

UNIVERSITY COLLEGE OF SWANSEA : see p. 1211

SCHOOL OF THE UNIVERSITY

WELSH NATIONAL SCHOOL OF MEDICINE . see p. 1215

ASSOCIATED THEOLOGICAL COLLEGES AND SCHOOLS OF THEOLOGY

ABERYSTWYTH, UNITED THEOLOGICAL COLLEGE (tel. Aberystwyth 281) (Calvanistic Methodist) CHRISTIAN DOCTRINE & ETHICS—Rev Principal W. R. WILLIAMS, MA *Oxon*, BA CHURCH HIST.—Rev Prof R. B. KNOX, MA BD *Belf.*, PhD *Lond* HEBREW & OT EXEGESIS—NT GREEK—Rev Prof S. I. FOR ENOCH, MA *Camb.*, BA THEISM & PHILOS. OF RELIGION—Rev Prof R. N. WILLIAMS, MBE, MA *Camb.*, BA

BANGOR SCHOOL OF THEOLOGY (Univ. Coll. of N. Wales, Bangor, tel. Bangor 501) (Interdenominational) NT GREEK—Rev S. I. BUSC, MA BD, Rev H. P. OWEN, MA *Oxon* HEBREW—Rev Prof B. J. ROBERTS, MA DD, Rev Prof G. R. M. LLOYD, BLitt *Oxon*, BA BD, D. R. AP THOMAS, MA *Oxon*, BD *Lond.*, BA, Rev C. F. WHITLEY, MA BD PhD *Dub.* CHURCH HIST.—Rev Prof R. T. JONES, DPhil *Oxon*, BA BD;

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T Richards, MA DLitt Hon LLD, Prof Emer. R T Jenkins, CBE, MA Camb, DLitt Hon. LLD, FSA; Rev O W Jones, BA Lampeter, MA Camb. CHRISTIAN DOCTRINE—Rev Principal G. Bowyer, BA BD PHILOS OF RELIGION—T. H. McPherson, MA N.Z., BPhil Oxon. HOLY SCRIPT & HEBREW—Rev Principal T. E. Jones, MA BD; HOLY SCRIPT—Rev I Thomas, BA BD

CARDIFF SCHOOL OF THEOLOGY (Univ. Coll. of S Wales and Mon, Cathays Park, Cardiff; tel: Cardiff 20781) (Inter-denominational) PHILOS. OF RELIGION, PHILOSOPHICAL THEISM & CHRISTIAN DOCTRINE & ETHICS—Rev Principal J. I. Jones, MA BD, Rev J C Mears, MA, N H Palmer, MA Oxon. HELLENISTIC GREEK—Prof. B R Rees, MA Oxon., PhD N.T. GREEK & EXEGESIS—Rev D. G. Davies, BA BD, Rev H L Clarke, MA Oxon., STM U.T.S(N.Y.) OT HEBREW & SEMITICS—Prof A R Johnson, Hon DD Edm, PhD, FBA, Rev E. R. Rowlands, BA Camb, MA, Rev E T Ryder, MA Oxon, BD Lond, Rev D R Griffiths, MA Oxon, MTh Lond,

Rev. E Roberts, BA Oxon. & Wales CHURCH HIST—Rev Prof J. M. John, BA, Rev O G. Rees, BA Lampeter, MA Oxon HIST OF RELIGIONS—Rev. C G Williams, MA BD

CARMARTHEN, The Presbyterian Coll (The Parade, Carmarthen, tel Carmarthen 7157) (Unitarian, Congregationalist, Baptist) THEISM & PHILOS OF RELIGION, CHRISTIAN DOCTRINE & ETHICS—Rev. Principal T. G. Davies, BA BD N.T. GREEK & EXEGESIS—Rev Prof D H. Davies, BA BD. HEBREW & OT STUDIES—Rev Prof D J. Jenkins, MA BD

SWANSEA, The Congregational Memorial Coll (Plynnone, Swansea, tel Swansea 59260) (Congregationalist) CHURCH HIST—Rev. Principal W T P Davies, BLitt Oxon, PhD Yale, BA Other Profs. HEBREW & OT. EXEGESIS—Rev Prof. D. L T Evans, BA BD, N.T. GREEK & EXEGESIS—Rev Prof D P. Roberts, MA Oxon, BA BD, CHRISTIAN DOCTRINE & ETHICS, THEISM & PHILOS OF RELIGION—Rev Prof. D. J Davies, BA

GENERAL INFORMATION

The univ was founded by charter in 1893 This organized 3 univ. colls already existing in Wales into a unified system for the purpose of degree exams As the result of an enquiry held by a royal commission in 1916-18, a supplemental charter was granted to the univ. in 1920, which introduced many changes, the most important being the estab. of a 4th constituent coll. at Swansea A further supplemental charter was granted in 1932 providing *inter alia* for the institution of the Welsh National Sch of Medicine as a sch of the univ. At the same time a change came about in the organization of theol teaching Theol had up to this point been taught only in associated theol. colls The amendment permitted the estab. of schs. of theol, which would combine the teaching resources of univ. colls. and of theol instns in univ centres. Two schools have come into being, at Bangor and at Cardiff, but theol colls operating on their own still survive and continue to receive recognition (at Aberystwyth, Carmarthen, Swansea, *see above*)

CONSTITUTION. The supreme governing and legislative body of the univ is the univ court, an assembly consisting of reps apptd. by local authorities, by the constituent and other colls and by various instns. connected with educn and scholarship The univ. council is the executive body of the univ, and the academic bd. advises the council and court on all academic matters

GRANT INCOME (1959-60). £2,239,326 (Treasury, £2,163,847; county councils and county borough councils, £75,479)

FACULTIES Facs. of arts and sci exist in each of the constituent colls and operate within the colls The following facs do not exist separately

in the colls. but only as univ. bodies, functioning on a univ level—*archt*, *educn*, *law*, *music*, *rural sci* (consisting mainly of profs. of agric and allied subs), *technol*, *theol* (consisting mainly of recognized teachers of theol), *med.* (the senate of the Welsh Natnl Sch of Med) The academic bd. is constituted mainly of single reps. coming from all the facs

LIBRARIES *See* entries for constituent colls. and Welsh Natnl Sch of Med, *below*.

The UNIV SCHOOL OF EDUCATION (Univ Registry, Cardiff; tel. Cardiff 22656), which is an area trg organization, came into being in 1949 and superseded the univ bd. for trg colls It is charged with the duty of surveying the general educn. needs of Wales and Monmouthshire in regard to the educn and professional trg of teachers, and of co-ordinating developments and directing long-term policy, so as to formulate a comprehensive system for the trg of teachers in the area The organization comprises the univ educn. bd, the univ fac of educn and the 4 collegiate facs of educn at Aberystwyth, Bangor, Cardiff and Swansea. The school awards the teacher's cert and the art teacher's dipl.

BOARD OF CELTIC STUDIES (Univ Registry, Cardiff, tel. Cardiff 22656) organizes and publishes results of res into the hist., lang., lit., laws, customs, archaeol, and art instns of the Celtic peoples. Publishes *Bulletin* half-yearly, *Llen Cymru* (journal of literary res) half-yearly.

ADMISSION *See* Appendix III.

FIRST DEGREES 3 yrs. pass, honrs —BA, BSc, BMus, LLB, BPharm, 5 yrs 2 terms (of which last 3 yrs. may be spent in an approved sch. of

med)—MB BCh, 6 yrs (1st yr in one of the constituent colls of the univ, remainder in Welsh Coll of Advanced Technol, Cardiff)—BArch

The univ prescribes conditions under which it awards mutual degrees to students of the colls and of the sch of med. Courses leading to the BA and BSc are provided at the 4 constituent colls.

The BA hons. may be taken in the following sp schs, at all 4 constituent colls, except where otherwise indicated: archaeol (at Cardiff only), bibl. studies (Bangor, Cardiff), econ, educn. (Aberystwyth, Bangor, Cardiff), English, French, geog (Aberystwyth, Swansea), German, Greek, Hebrew (Bangor, Cardiff), Hispanic studies (Cardiff only), hist, Latin, maths (Cardiff, Swansea), music (Aberystwyth, Bangor, Cardiff), philos, Welsh. There are also jt hons schs in certain of these subjs.

The BSc hons may be taken in the following depts at all 4 constituent colls, except where otherwise indicated: agric. (only at Aberystwyth and Bangor), agric bot (Aberystwyth, Bangor), agric chem. (Aberystwyth, Bangor), agric econ (Aberystwyth only), anat (Cardiff only), bot, chem., econ, educn (Aberystwyth, Cardiff), engin. (electronic) (Bangor only), engin. (chem) (Swansea only), engin (civil, electr, mech) (Cardiff, Swansea), for (Bangor only), fuel technol (Cardiff only), geog (Aberystwyth, Swansea), geol (Aberystwyth, Cardiff, Swansea), maths, metall (Cardiff, Swansea), microbiol. (Cardiff only), mining (Cardiff only), phys, physiol (Cardiff only), zool.

Courses leading to the BMus are provided at Aberystwyth, Bangor and Cardiff, to the LLB at Aberystwyth, for the MB BCh pre-clin studies are pursued at Cardiff and thereafter at the Welsh Natl Sch of Med; for the BPharm at Cardiff in conjunction with the Welsh Natl Sch of Med and the Welsh Coll of Advanced Technol. The Welsh Coll of Advanced Technol. is also associated for the purpose of providing courses of study for the BArch.

HIGHER DEGREES. MA, DLitt, MSc, DSc, MMus, DMus, LLM, LL.D, MD, MCh, MPharm, BD, DD, PhD (in arts, sci, law, med). For the BD (3 yrs' course), study is pursued in one of the associated colls or at the schs of theol of the Univ Coll. of N. Wales, Bangor, and the Univ. Coll. of S. Wales and Monmouthshire, Cardiff. The MA and LLM may be awarded to grads of other univs approved for this purpose who pursue a scheme of res. for at least 2 yrs in one of the constituent colls. The MSc may be awarded to grads. of other univs approved for this purpose who pursue a scheme of res. in one of the constituent colls; hons. g2ads are required to pursue res. for 12 mos, others for 2 yrs. Only grads. of approved univs who already have a master's degree (or BD) or have undertaken one yr.'s approved res. or have one yr.'s approved postgrad technical experience may be candidates for the PhD, which is awarded after not less than 2 yrs' subsequent full-time res. at one of the con-

stituent colls or the Welsh Natl Sch of Med. (for full-time staff members of the colls or the sch sp conditions apply).

HONORARY DEGREES. MA, MSc, MMus, DLitt, DSc, DMus, DD, LL.D.

The univ does not award EXTERNAL DEGREES

DIPLOMAS. Educn, 1 yr postgrad, DPH, 18 mos pt-time, tuberculosis & chest diseases (DTCD), 2 yrs subsequent to attainment of registrable qualif. (incl 12 mos' resident appt in tuberculosis hosp and attendance at approved courses of instructn); agric. sci. or for., at least 1 yr for grads. and others with equivalent qualifs; theol, 3 yrs.; paleog. & archives admin, 1 yr. postgrad, micropaleontol., 1 yr. postgrad

FEES. Annual composition fees (comprising matric, registration, tuition, exam, graduation and library fees, but excluding students' union fees, lab fees and deposits) Initial degrees BA, BMus, LL.B, £50, BSc, BPharm, BArch, MB BCh, £60. Dipls paleog., agric sci, pub health, £40, tuberculosis & chest diseases, £60; educn., micropaleontol., £70. Res. degrees without lab facilities, MA, MSc, MMus, LLM, £25, PhD, £30; with lab facilities, MSc, MPharm, £35, PhD, £40. Students' union fee (compulsory) varies according to coll

ACADEMIC YEAR. Oct–June. 3 terms of 10 wks. each

UNIV EXTENSION BOARD (Univ Registry, Cardiff; tel. Cardiff 22656) co-ordinates and reviews the extra-mural work of the constituent colls. For details, see coll entries.

POSTGRADUATE AWARDS open to grads of other univs see p 808. Details of other postgrad awards are given in the univ. Calendar.

THE UNIV. APPOINTMENTS BOARD (Univ Registry, Cardiff, tel: Cardiff 22656) is concerned with appts. of all kinds

THE GUILD OF GRADUATES consists of the grads and hon. grads of the univ. Periodical meetings are held. Its officers are the warden, the clerk and the treasurer. Address for communications: Univ Registry, Cathays Park, Cardiff.

PUBLICATIONS. *Calendar* (Oct), 10s. post free. Courses in div and in mus, and matric. and degree regns, free. Degree exam papers: arts, £1, sci, 15s, med, 2s, theol, 2s. *Bulletin* of Board of Celtic Studies, 7s. 6d per part (5s to subscribers). *Publicns. of the Council of Music.* Accounts of early hist of univ are given in *The Univ of Wales*, by W. Cadwaladr Davies and W. Lewis Jones (F. E. Robinson & Co., 1915), and *The Univ of Wales: A Historical Sketch*, by D. Emrys Evans (Univ of Wales Press, 1953).

UNIVERSITY PRESS. Established by charter, 1922. Main field of interest: books in Welsh and works of res. relating to Wales. Offices: Univ Registry, Cathays Park, Cardiff; tel. Cardiff 22656.

THE YEAR 1960

HONORARY DEGREES. *MA*—D W Roberts, former sec., Sch. Broadcasting Council for Wales, D. Thomas, Welsh writer & pioneer of adult educn. *MSc*—G L Bennett Evans, exper farmer *LLD*—Sir Arthur fforde, chairman, BBC, Prof J Hughes, former prof of educn at Aberystwyth, Rhodes and McG, Dr W A Lewis, principal, Univ. Coll of West Indies, Sir Thomas Parry-Williams, former prof of Welsh at Aberystwyth *DLitt*—D Jones, poet & painter, Prof. P. M. Jones, former prof of French at Bangor and Manc, Prof E Perroy, prof. of med hist., Sorbonne *DSc*—Sir James Gray, past pres., British Assocn, former prof of zool. at Camb, Dame Kathleen Lonsdale, prof of chem, Univ Coll, Lond., Sir George Thomson, Nobel laureate, master of Corpus Christi Coll., Camb, pres. British Assocn; Prof D. Thoday, former prof of bot at Bangor, Dame Janet Vaughan, principal, Somerville Coll., Oxon

Included in the figures above are :—

Postgraduate students, 466.

New admissions, 2008

Students from other countries, 425 (Countries from which largest numbers came: Iraq, 53; India, 43, Uganda, 24, Kenya, 21, Trinidad, 21).

DEGREES AWARDED (1959-60) *Archit.* BArch, 2. *Arts* BA, 554; MA, 32, DLitt, 1 *Law* LLB, 25 *Med*: MB BCh, 44, MD, 2 *Music*. BMus, 8, MMus, 1 *Sci* BPharm, 19; BSc, 707; MPharm, 1, MSc, 35, DSc, 1 *Theol* BD, 14 PhD (all facs) 77. Total number of first degrees awarded, 1373

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	4519	105
Women	1914	47
Total	6433	152

DIPLOMAS AWARDED (1959-60) Agric sci., 1; DPH, 10; DTCD, 17; educn, 409, palmog, 1, theol, 19

[Information compiled as at 1/9/61]

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH

Founded 1872

Postal Address : Aberystwyth, Wales

Cables and Telegrams University College of Wales, Aberystwyth

Telephones : Aberystwyth 346-8

PRESIDENT OF THE COURT OF GOVERNORS AND OF THE COUNCIL—SIR DAVID HUGHES PARRY, QC, MA Camb, Hon. DCL McG, Hon. LLD Birm., Br. Col., Camb^U, Exe, Hull, New Br, W Ont & Wales
VICE-PRESIDENTS—The Rt Hon. THE EARL OF LISBURN, IVOR EVANS, MA Oxon.

TREASURER—J. ALBAN DAVIES

PRINCIPAL—T. PARRY, MA DLitt, FBA

REGISTRAR—T. MAELGWYN DAVIES, MA

LIBRARIAN—A. AP GWYNN, MA

TEACHING STAFF

[†=Part-Time]

Agriculture, see below

Anthropology, see Geog

Art and Crafts, see Educn.

Botany

Wareing, P. F., PhD DSc Lond, FLS Prof
 Carter, P. W., MSc Sr Lectr.
 Wilson, Irene M., MSc PhD Lond Sr Lectr.
 Jones, H., MSc PhD Sr Lectr.
 Chater, E. H., BSc Lond, MSc Lectr.
 Bradbeer, J. W., BSc PhD Durh Lectr.
 Savidge, J. P., BSc PhD Lsw Asst. Lectr.
 Newman, E. I., BA Camb Asst. Lectr.
 1 Demr

Chemistry

Trotman-Dickenson, MA BSc Oxon.,
 PhD Manc, DSc Edn Prof.
 Davies, M. M., PhD ScD Camb., MSc Sr Lectr.
 Monk, C., DSc PhD Lond Sr Lectr.
 Thomas, W. J. O., DSc PhD Sr Lectr.
 Bowen, J. B., BSc Lectr.
 Graham, S. H., BSc PhD Glas. Lectr.
 Morrison, G. A., MA DPhil Oxon.
 (Biochem.) Lectr.
 Williams, A. J. S., BSc Lectr.
 Kerr, J. A., BSc PhD Edn. Lectr.
 Price, A. H., BSc PhD Lectr.
 Young, J. C., BA PhD Camb Asst. Lectr.

Classics, see Greek and Latin

Economics, see also Pol., Internat.

Beacham, A., OBE, MA Lw, PhD Belf, BA Prof.
 George, P., MA Camb, MSc
 (Stats & Econometrics) Sr Lectr.
 Morris, J. H., MSc(Econ) Lond. Sr Lectr.
 Guénault, P. H., MA Sheff Lectr.
 Pankhurst, K. V., BSc Lond Lectr.
 Edwards, J. R., BA Camb. Lectr.
 Wells, S. J., BSc(Econ) PhD Lond Lectr.
 Williams, L. J., MA
 (Welsh Econ. Hist.) Res. Lectr.

Education (incl. Art and Crafts)

Williams, J. L., BSc(Econ) PhD Lond, BA Prof.
 Lewis, W. J., MSc Lond Lectr.
 Trott, A. L., MEd Durh, MA Lectr.
 Morrison, J. R., MA BSc Glas, BEd*Edn Lectr.
 Clement, Mary, MA PhD Lectr.
 Conway, H. T., BSc Brst. Lectr.
 Dodson, C. J., MA Lectr.
 Hall, E. G., BSc Nott Lectr.
 Jones, E., MA MEd Durh. Lectr.
 Jones, Rev. B. E., BA BD (Bibl Studies) Lectr.
 Jones, R. G., MA Lectr.

Watkins, Mrs M. Auriol, BA Asst. Lectr.
 Gapper, R. L., BSc
 (Art & Crafts) Sr. Lectr., Curator of Museum
 Nisbet, S. (Art) Instr.
 Jones, R. M., MA Res. Lectr in Fac of Educn.
 Thomas, Lili M., BSc
 Liaison Officer in Fac. of Educn.

English Language and Literature

Jones, G., MA Rendel Prof
 Earnshaw, J., MA Manc. Sr. Lectr.
 Nosworthy, J. M., MA R'dg., FRSL Sr. Lectr.
 Slay, D., MA Oxon., PhD Lectr.
 Mills, M., DPhil Oxon., MA Lectr.
 Stephens, R. C., MA Oxon, PhD Belf. Lectr.
 Daniels, J. H., MA Syr., BA
 (American Lit.) Lectr.

French and Romance Studies

Briggs, E. R., MA PhD Camb. Prof
 Williams, J. Killa, TD, MA Sr. Lectr.
 Hoggan, Mrs Yvonne G. R., LèsL Paris,
 MA PhD Lectr.
 Fletcher, D. J., MA Lectr.
 Hoggan, D. G., MA St.And., LèsL
 DUStras Lectr.
 John, S. G., MA Lectr.
 Macpherson, I. R., MA Aberd, PhD Manc
 (Spanish) Lectr.
 Moyle, J. J., BA Camb (Italian) Asst. Lectr.
 1 Lectrice

Geography and Anthropology

Bowen, E. G., MA, FSA Gregynog Prof.
 Fogg, W., MA Manc Sr. Lectr.
 Thomas, J. G., MA Sr Lectr.
 Howe, G. M., MSc PhD, FRMetS Sr Lectr.
 Watson, E., MA Belf Lectr.
 Carter, H., MA Lectr.
 Yates, R. A., MSc Brst. Lectr.
 Taylor, J. A., MA Lw., FRMetS Lectr.
 Mounfield, P. R., BA Nott. Lectr.
 McCann, S. B., BSc Asst. Lectr.
 Wood, B. T., BSc Asst Lectr.

Geology

Wood, A., DSc PhD Lw Prof.
 Kirk, Nancy H., BA PhD Camb. Lectr.
 Phillips, W. J., BSc PhD Lectr.
 Haynes, J. R., BSc PhD Lectr.
 Convery, H. J. E., BSc Glas. Asst. Lectr.
 Bates, D. E. B., BSc Belf. Asst. Lectr.
 2 Tutorial Assts.

German and Germanic Philology

Magill, C. P., MA Camb., PhD Lond Prof.
 Robinson, A. R., BA Lond, PhD Edn. Lectr.
 Harris, Sylvia C., MA Lond. (on leave) Lectr.
 1 Lectorn, 3 Tutorial Assts.

Greek and Latin

Davies, W H, MA	(Classics) Prof
Duff, A M, MA BLitt Oxon.	Sr. Lectr
Hudson-Williams, A., MLitt Camb., BA	Sr Lectr
Wild, L. N., BA Oxon., MA Sheff	Lectr.
Emanuel, H D., MA PhD	(Paleog & Mediev Latin) Lectr.
Thomas, J D, MA Oxon.	Lectr
Kilgour, Edna M., MA Glas, BA Oxon	Asst Lectr.
Hart, Gillian R, BA Oxon	Asst. Lectr.

History

Treharne, R F, MA PhD Manc, FRHistS Prof.	
Johnston, S H F, MA BLitt Oxon., FRHistS	Sr. Lectr
Sanders, I J., DPhil Oxon, MA, FRHistS	Sr Lectr
Fryde, E B, MA DPhil Oxon, FRHistS	Sr Lectr
Contway, A. A., MA Lond, FRHistS	Lectr
Walker, R. F., DPhil Oxon., MA	(Diplomatic) Lectr
Wilson, H S., BA Durb., BLitt Oxon	Lectr
Bell, K, BA Lond	Asst. Lectr

History, Colonial, see Pol, Internat.

History, Welsh

Williams, D, AM Col, MA DLitt	Sir John Williams Prof
Pierce, T. J., MA Lw	(Mediev) Res Prof
Williams, G A, PhD Lond., MA	(on leave) Lectr
Smith, J B, MA	Asst Lectr
Vodden, J A., BA	Temp Asst. Lectr

Latin, see Greek and Latin

Law, English

Davies, D J Ll., MA Camb, LLB	Prof
Hughes, G B J, MA Camb., LL.M	Sr Lectr
Calvert, H G, LL.M Leeds	Lectr.
Rudden, B A., MA Camb	Lectr
Moseley, T H, BA LLB Camb	Asst Lectr.
North, P. M, BA BCL Oxon	Asst. Lectr

Logic and Philosophy

Aaron, R. I., DPhil Oxon, MA, FBA	Prof.
Jones, O R, BLitt Oxon, BD PhD	Lectr
Thomas, D. O, PhD Lond., BA	Lectr
Lycos, K, BA Syd, BPhil Oxon	Lectr
Roberts, T A., MA DPhil Oxon., BA	Lectr
Walters, P W E, BA Rand, BPhil Oxon.	Asst Lectr.

Mathematics, Applied

Davies, T V., DSc Lond, MSc	Prof.
Easthope, C. E., PhD Camb., MSc	Sr. Lectr
Rogers, Ruth H., MSc PhD Lond.	Lectr.
Beard, D. W., MSc Lond	Lectr.
Walters, K., MSc PhD	Lectr

James, Mrs Eleanor M, BSc	Lectr
Davies, M J, BSc Lond	Asst Lectr
1 Tutorial Asst	

Mathematics, Pure

Pennington, W B, MA PhD Camb	Prof
Meyler, Dorothy S, MSc	Sr Lectr
Rogers, Ruth H., MSc PhD Lond.	Lectr.
Morris, A O, BSc PhD	Lectr.
James, Mrs Eleanor M., BSc	Lectr.
Penry, M D, MSc	Asst Lectr
Clegg, J, MA Camb	Asst Lectr
1 Tutorial Asst	

Music

Parrott, H I, MA DMus Oxon, FTCL	Gregynog Prof
Clements, C, BMus, FRCO	Sr Lectr
Clapham, J, DMus Lond., FRAM	Lectr
Executants and Teachers	
Bor, E	(Violin)
Llewellyn, R	(Singing)
Edmunds, M.	(Cello)
Ullman, L.	(2nd Violin)
Manton, V	(Viola)

Philosophy, see Logic

Physics

Beynon, W. J G, CBE, PhD DSc, FIP	Prof
Jones, I C., MSc, FIP	Sr. Lectr
Richards, D A., ARCS, DIC, MSc Lond	Sr Lectr
Jones, W M, DPhil Oxon., BSc, FIP	Sr Lectr
Job, E M, BSc	Lectr
Trevena, D. H., PhD Camb & Wales, BSc	Lectr
Edwards, D. H, PhD Camb & Wales, BSc	Lectr
Brown, G. M, MA Camb., MSc	Lectr
Maude, A. D, BSc PhD Nott	Lectr
Wooding, E. R, BSc PhD Lond	Lectr

Politics, International

Reynolds, P A, MA Oxon, FRHistS	Wilson Prof
John, I G, MSc Lond, BA	(I Pol & Colonial Hist) Lectr.
Morgan, R. P., MA PhD Camb	Lectr.
Jones, R E., MA	Asst Lectr.

Statistics

Lindley, D V, MA Camb	Prof.
Bartholomew, D. J, BSc PhD Lond.	Lectr.
Stone, M, BA PhD Camb	Lectr
1 Res. Officer	

Welsh Language and Literature

Jones, T, MA DLitt	Prof.
Gwenallt Jones, D J, MA	(Mod Welsh Lit.) Sr. Lectr
Hughes, G H., MA	Sr. Lectr.

Watkins, T A, MA	Lectr.
Bowen, D J, MA	Lectr.
Roberts, B F, MA	Lectr.
Millward, E G, MA	Lectr.
Piette, J R F, <i>Léa Rennes</i>	
(Bretton & Cornish) Asst	Lectr
O'Callaghan, Mary O, MA <i>Dub</i>	
(Irish) Asst	Lectr

Zoology

Jones, B M, DSc <i>Edm.</i> , BSc	Prof
Watkins, E, DSc Phd	Sr. Lectr.
Rees, Florence G, DSc Phd	Sr. Lectr.
Jones, J. R. E., DSc Phd	Sr. Lectr.
Fortune, Pamela Y., BSc Phd <i>Leeds</i>	Lectr.
Poole, T B, BSc Phd <i>Wales</i>	Lectr
Joyner, A., BSc <i>Lond</i>	Asst Lectr

AGRICULTURE AND RURAL ECONOMY**Agricultural Biochemistry**

Goodwin, T W, DSc <i>Liv</i> , FRIC	Prof
Ashton, W. M., DSc Phd, FRIC	Sr. Lectr.
Stewart, V. I., BSc Phd <i>Aberd.</i>	Lectr
Davies, B H., BSc <i>Liv</i>	Asst Lectr
Mercer, E I., BSc <i>Liv</i>	Asst Lectr.

Agricultural Botany

Thomas, P. T, BSc Phd	Prof
Rees, H, Phd <i>Burm</i> , BSc	Si. Lectr
Griffiths, E, MSc Phd	Lectr.
Durrant, A, BSc <i>Durh.</i> , Phd <i>Burm</i>	(on leave) Lectr
James, D. B., MSc	Lectr
Mann, Brenda, BA <i>Camb.</i>	Asst Lectr
Davies, J N, BSc	Temp. Asst Lectr

Agricultural Economics

Nash, E F, MA <i>Oxon</i>	Prof, Adviser
Provincial Agric Econ. Service	
Phillips, J. R. E., MA	Lectr
Jawetz, M B, MSc	Lectr
Lectr., Farm Management Liaison Officer	
Evans, D. H., MSc <i>Nott.</i> , BSc	Lectr
Jones, W. D, MSc	Lectr
Hallett, G., MA <i>Oxon.</i>	Lectr
James, P G, MA <i>Camb & Wales</i>	Lectr.
Crotty, R D, BSc <i>Lond</i>	Lectr
Jawetz, Mrs. Mary T, BSc	Sr. Investigation Officer
Johnston, Era, BA <i>Lond.</i>	Sr. Investigation Officer
Dummer, M. H, BA	Sr. Investigation Officer

Agricultural Zoology, see Zool., above**Agriculture (Animal Husbandry)**

Nichols, J E, MSc <i>Durh</i> , Phd <i>Edm</i>	Milford Prof
Sinclair, K B, MVSc <i>Liv</i> , Phd	(Animal Physiol.) Lectr.
Lees, J. L., BSc <i>R'dg</i>	Lectr

Owen, J B, BSc Phd	Lectr
Newton, J. E., BA <i>Oxon.</i>	Temp. Asst. Lectr

Agriculture (Crop Husbandry)

Ellison, W, BSc Phd <i>Durh</i>	Prof.
Edwards, R S, BSc Phd	Lectr.
Hammerton, J L, BSc <i>R'dg</i> , Phd	Asst Lectr.
Warboys, I B, BSc <i>Nott</i>	Asst Lectr.

Dairying

Lewis, J., MSc	Sr Lectr, Dir of Dairry
Davies, Mrs Anne, MSc <i>Lond</i>	(Microbiol) Lectr
Richards, Eurwen, BSc	Asst. Lectr.

WELSH PLANT-BREEDING STATION

Plas Gogerddan, Bow Street, Nr Aberystwyth, Cardiganshire	
Thomas, P. T, BSc Phd	Prof., Dir.
Griffiths, D. J, MSc Phd	Dep Dir

Research Officers /c Investigations

Jones, L. I., BSc	
Davies, W. E., BSc	
Cooper, J P, BSc Phd <i>R'dg</i>	
Roberts, H M, BSc	
ap Griffiths, G, BSc Phd	
Hayes, J D, MS <i>W's</i> , BSc	
Breese, E L, Phd <i>Burm</i> , BSc	

Research Officers

Jones, D G, BSc	
Vose, P. B., BSc <i>Glas</i>	
Lewis, J, BSc	
Davies, I, MSc	
Thomas, H., BSc	
Troughton, A, MSc <i>Durh</i> , Phd	
Carr, A J H, BSc <i>Lond</i> , Phd	
Evans, Alice M., BSc Phd	
Johnston, T. D, BSc <i>R'dg</i>	
Charles, A. H, BSc	
Davies, Alison, MA <i>Oxon.</i> , MSc	
Borrill, M, BSc Phd <i>Lond.</i>	
Miles, D G, BSc	
Lewis, E. J, BSc	
Stoddart, J L, BSc <i>Durh.</i>	
Hughes, R., MSc	
Munro, J M M, BSc <i>Glas</i>	
Jones, D I H, BSc Phd	
Hayward, M. D, BSc	
Catherall, P, BSc	

Scientific Liaison Officer

Phillips, Ll., BSc

UNIVERSITY EXTENSION

Rees, A. D, MA	Dir of Extra-Mural Studies
Thomas, B., MA	Staff Tutor
Anthony-Jones, W J, MA Phd	Staff Tutor
Davies, J, MA	Residential Tutor
Jenkins, D, MSc	Residential Tutor
Lloyd, D T, MA <i>Liv.</i> , BA	Residential Tutor
Gardelli, V. C. A., MA <i>Oxon.</i>	Residential Tutor
66 Tutors†	

ADMINISTRATIVE AND OTHER STAFF

Lectr & Coll. Adviser in Phys Educn H Williams, BA DipPhysEd Lond Lectr in Phys. Educn W W. Hughes, BA Asst to Coll Adviser Mrs. Megan Bowen Asst Registrar T. A. Owen, MA Oxon. Wardens of Halls of Residence L. Powys Roberts, MA Oxon (Alexandra Hall), Mrs. G. Morgan Jones, BA

(Carpenter Hall), J. G. Thomas, MA (Pantycelyn Hall); (Plynylmon Hall); Muriel E. Rhodes, BSc Lond, PhD R'dg (Ceredigion Hall), K. Walters, MSc PhD (Padarn Hall) Careers Adviser & Welfare Officer H. D. Thomas, MA. Supervisor of Women's Lodgings Mrs. Myfanwy Davies

GENERAL INFORMATION

Founded in 1872, the coll was incorporated by royal charter in 1889, and is a constituent coll of the Univ of Wales. Its main bldg and most halls of residence are on the sea front, facing Cardigan Bay Pantycelyn Hall, the inst of rural sci and depts of bot. and zool are situated on Penglas Hill, the future site of the coll

INCOME (1959-60) £574,083 (govt grants, 83 per cent; fees, 13.5 per cent, endowments, 1.5 per cent; other sources, 2 per cent)

FACULTIES AND DEANS. Arts, Prof A. Beacham (econ), educn, Prof J. L. Williams, law, Prof. D. J. L. Davies; music, Prof H. I. Parrott, sci & rural sci, Prof J. E. Nichols (agric)

LIBRARIES Coll, 153,405 vols and 15,435 pamphlets Access to Natl Library of Wales (founded in 1907) since 1912 entitled, under the Copyright Act, to a copy of every book published in Gt. Britain & Ireland, contains over 1,000,000 printed works (books, pamphlets, newspapers, journals), 25,000 MSS vols., and about 3,500,000 deeds and other documents, together with very large collection of maps, prints and drawings It has a general reference library which specializes also in printed books, MSS and graphic material relating to Wales and the other Celtic countries

MUSEUMS AND LABORATORIES. Archaeol, bot, chem, ethnog, geog, geol, zool, gallery of arts & crafts Agric, exper, and plant-breeding stns, coll farm and bot gardens on Penglas

ADMISSION. Those wishing to read in the coll for a degree (awarded by the Univ of Wales) must satisfy the univ admission requirements See Appendix III.

FIRST DEGREES (of Univ. of Wales). Courses in arts, sci, rural sci, law, music, for degrees of the univ (see pp. 1194-5) Courses in sci meet requirements of 1st yr of med. study, exams. of the Pharmaceutical Soc. and other bodies

HIGHER DEGREES (of Univ of Wales). Res work for higher degrees of the univ (see p. 1195) is carried out in all depts. Sp. facilities in agric, animal health, biochem., bilingual educn., internat. pol. and plant breeding

DIPLOMAS Univ dipls agric. sci., educn., micropaleontol., paleog. & archives admin, stats, each 1 yr postgrad Coll dipls dairying, 2 yrs., phys. of atmosphere, 1 yr. postgrad

CERTIFICATES Coll certs. bilingual studies, internat. law & reins, paleog., each 1 yr. Univ of Wales Sch. of Educn teacher's cert.

FEES. See under Univ. of Wales, above.

UNIVERSITY EXTENSION (see also 'Teaching Staff', above) Extra-mural classes incl extension and tutorial courses in several subs in 7 counties. The dept of extra-mural studies has its offices at 12 Marine Terrace, Aberystwyth (tel. 7616)

SCHOLARSHIPS. Entrance scholp. exam held each spring for numerous scholps, some of which may be supplemented by Ministry of Education (Details in prospectus obtainable from registrar)

POSTGRADUATE AWARDS open to grads of other univs see p. 808

APPOINTMENTS BOARD Students seeking advice on careers should consult the coll. careers adviser (see 'Admin. and Other Staff', above)

OLD STUDENTS' ASSOCIATION. Open to grad. and non-grad old students of the coll.

RESIDENCE (For wardens, see 'Admin and Other Staff', above.) Women: Alexandra Hall (tel. 415), Carpenter Hall (tel. 516), Ceredigion Hall (tel. 7159) and Plynylmon Hall (tel. 7137), accommodating 200, 85, 67 and 67 students respectively. Men: Pantycelyn Hall (tel. 642) and Padarn Hall, accommodating 260 and 60 students respectively Fees £155 per session All enquiries to registrar. Men students not residing in hall live in approved lodgings (list obtainable from welfare officer)

STUDENT WELFARE Every effort is made to foster the welfare of students by the encouragement of athletic and social activities. Playing-fields with a running track, gymnasium and a swimming-bath at Penglas, together with a club room and a refectory, are set apart for the use of students. A dining club has been organized for men students. The coll takes a full part in the student health service of the univ (see under Welsh Natl. Sch. of Med, below), and med. officers visit the coll each term. X-ray of the chest is compulsory for all students entering the coll

PUBLICATIONS Prospectus (May), Reports (Oct); students' mag., The Dragon.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS *Bldg completed* extn. to Pantycelyn men's hall of residence (to accomm extra 140)

RETIREMENTS. Prof. C. W. Davies (chem.), Prof Idwal Jones (educn.); J Challinor (geol)

RESIGNATIONS M. McManus (econ), apptd lectr, Birth, U. Opik (maths), apptd lectr in phys, R'g; Hilda Hunter (music)

DEATHS. Hywela A. Saer (educn)

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	1084	—
Women	495	—
Total	1579	—

Distribution by Faculties *Arts*, 651, *educn*, 125, *law*, 84, *music*, 3; *social sci.*, 159, *sci*, 557
Total 1579.

Included in the figures above are:—

Postgraduate students, 246
New admissions, 569
Students from other countries, 68 (Countries from which largest numbers came: Uganda, 13; Nigeria, 9)

DEGREES AWARDED (by Univ of Wales) (1959-1960) *Arts*: BA, 42, BA (hons), 110, MA, 9; PhD, 5. *Law*: LLB (hons), 28. *Music*: BMus (hons), 1. *Rural sci.*: BSc, 14; BSc (hons), 16; MSc, 7, PhD, 3. *Sci*: BSc, 51, BSc (hons), 69, MSc, 5; PhD, 12. Total number of first degrees awarded, 331

DIPLOMAS AWARDED (1959-60). By Univ of Wales: DipEd, 120, micropaleontology, 2. By coll.: dairy, 15

CERTIFICATES AWARDED (1959-60) By Univ. of Wales: *Sch of Educn.*: teacher's cert., 5. By coll.: bilingual studies, 10

[Information compiled as at 31/8/61]

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR

Founded 1884

Postal Address Bangor, Wales

Cables and Telegrams University College, Bangor, Wales

Telephone (Registrar) Bangor 2501

PRESIDENT—The Rt Hon. LORD KENYON, LLD

CHAIRMAN OF THE COUNCIL—The Rt. Hon. LORD KENYON, LLD

PRINCIPAL—R CHARLES EVANS, MA BCh Oxon, Hon DSc, FRCS

SECRETARY AND REGISTRAR—K LAWRENCE, BSc

LIBRARIAN—E G JONES, MA

TEACHING STAFF

[†=Part-Time]

Agriculture, see below

Botany

Richards, P W, MA ScD Camb.
Woodhead, N., MSc Manc
Greig-Smith, P., MA Camb
Jackson, G. A D., BSc PhD Durh.

Prof
Sr Lectr
Sr Lectr.
Lectr

Lacey, W. S., BSc PhD R'dg.

Griffiths, D. J., BSc

Tweed, R D

Lectr

Lectr.

Hon Keeper of Herbarium

Chemistry

Peat, S., DSc Birm, FRS

Prof.

Angus, W R, MA DSc *Aberd.*, PhD *Lond.*
 FRIC (Phys. C) Sr Lectr
 Holmes, F., BSc *Lond* Sr Lectr
 McKail, J E, BSc PhD *Edm* Lectr
 Turton, Lillian M, BSc PhD *Birm* Lectr
 Turvey, J R, BSc PhD Lectr
 Lloyd, P F, BSc PhD *Burm* Lectr
 Thomas, J M., BSc PhD Lectr.
 Marshall, D. R., PhD *St. And.* Lectr.
 Smith, T D., MSc Lectr.

Classics

Wycheley, R. E., MA *Camb.* (Greek) Prof.
 Clarke, M L, MA *Camb* (Latin) Prof
 Browne, R. A., PhD *Camb.*, MA Sr Lectr
 Pollard, J. R T., MA *Lond.*, BLitt *Oxon* Lectr
 Fitton-Brown, A. D., MA *Camb.* Lectr
 Jones, J E., BA Lectr.

Economics

Black, D., MA PhD *Glas* Prof
 Scapnell, W M., BCom *Belf.*, PhD Sr Lectr.
 Jones, S., BA Lectr.
 Smith, G. P., MA *Camb.* Lectr.
 Kerridge, E., BA PhD *Lond* Lectr

Education

Jenkins, D W. T., MA *Oxon* Prof
 Rogers, J., PhD Sr Lectr.
 Jones, W. R., MA Sr Lectr
 Alexander, Marjorie B Lectr
 Clegg, F E., MA *Camb* Lectr
 Tibbitts, E L., BA *Lond* Lectr
 Eames, A., MA Lectr
 Leng, I J., BA Lectr
 Davies, B. L., MA Lectr.
 Sants, H. J., MA *Oxon.* Lectr.
 Rees, L., MA Lectr.
 Evans, H I., MA *Oxon* Lectr
 Glen, Margaret †F T. Instr. for Women
 Davies, Constance, PhD *Lond.* †Lectr

Electronic Engineering

Gavin, M. R., MBE, MA DSc *Glas.*, FIP Prof
 Ratcliffe, G., MSc Sr Lectr.
 Hyde, F J., MSc *Birm* Sr Lectr
 Jones, D. C., BSc Lectr.
 Forster, J., BScTech *Manc.*, MSc *Durh.* Lectr.
 Owens, A. R., MSc *Manc.* Lectr
 James, D W. F., PhD *Lond.*, BSc Lectr.

English Language and Literature

Danby, J F., MA *Camb.* Prof
 Owen, W. J. B., MA *N Z & Oxon.*, PhD Sr Lectr
 Bradbrook, F. W., MA *Camb* Lectr
 Rigby, Marjorie M., MA *Glas.*, BLitt *Oxon.* Lectr
 Dyson, A. E., MA MLitt *Camb* Lectr
 Brennan, Elizabeth M., MA *Belf.*, PhD *Lond* Asst. Lectr.
 Mackenzie, D. K. M., MA *Aberd.* Asst. Lectr.
 Bailey, R. N., MA *Durh* Asst. Lectr.
 Tydeman, W. M., BA *Oxon* Asst. Lectr.

Forestry

Mobbs, E C., OBE, MA *Camb.*, BSc *Lond* Prof.
 Dobbs, G G., PhD *Lond.* (Forest Bot) Sr. Lectr
 Owen, T H., BSc Lectr
 Kinloch, D., BSc *Edn* Lectr
 Huggard, E R., BA BAI *Dub.* Lectr
 Elliot, G. K., BSc MF *Br Col* Lectr.

French and Romance Philology

Alexander, I W., MA DLitt *Edm* Prof.
 Watkins, J H., MA Sr. Lectr.
 Grimalley, R., MA DPhil *Oxon* Sr Lectr.
 Watts, D. A., MA *Camb.*, DU *Paris* Lectr
 Ronco, Dassy D., DU *Genoa* Lectr
 Lorch, Jennifer, BA *Leeds* Asst Lectr
 Bust, A. J L., BA *R'dg.* Asst Lectr

German and Teutonic Philology

Spalding, K., MA PhD *Birm* Prof.
 Stuart, Mrs Hannah S M., BA Sr Lectr
 PhD *Lond.*, MA Sr Lectr
 Parry, I F., MA Sr Lectr
 Bednall, J B., MA MLitt *Camb* Lectr
 Whibley, K H., BA *Lond* (Russian) Lectr
 Hilton, I., BA *S'ton.* Asst. Lectr

Hebrew and Biblical History and Literature

Roberts, Rev. B J., MA DD Prof.
 ap Thomas, D R., MA *Oxon.*, BD *Lond.*, BA Lectr.
 Buse, Rev S. I., MA BD Lectr
 Owen, Rev H P., MA *Oxon* Lectr
 Whitley, Rev C. F., MA BD PhD *Dub* Lectr
 Thomas, Rev I., BA BD Lectr.

History, see also Theol.

Mowat, C. L., MA *Oxon.*, PhD *Minn* Prof.
 Thomas, J A., PhD *Lond.*, MA Sr Lectr.
 Cooke, M E., MA *Oxon.*, LLB *Birm* Lectr
 Lewis, R A., BA PhD *Birm.* Lectr
 Usher, G A., MA Lectr
 Williams, W O., MA Lectr.
 Lvens, R G., BA Lectr.
 Hughes, Rosemary, BA PhD *Lond.* Lectr
 McNulty, Patricia, BA *Lond* Lectr

History, Welsh

Roberts, G., MA Prof
 Williams, J G., MA Lectr

Linguistics

Palmer, F R., MA *Lond.* Prof.
 Thomas, A. R., MA Lectr.
 Matthews, B H., BA *Camb.* Lectr

Mathematics, Applied

Davies, D R., PhD DSc *Lond.* Prof
 Newing, R. A., PhD *Lond.* Sr Lectr
 Chambers, LL G., MSc Lectr.
 Hare, A., PhD *Leeds* Lectr.
 Hughes, J B., MSc Lectr.

Mathematics, Pure

Littlewood, D E, *MA Camb*
 Phillips, E G, *MA Camb*, *MSc Manc*

Prof

Jones, J G, MA
 Gruffydd, R. G., *DPhil Oxon*, BA
 Jones, B L, MA

Lectr.
 Lectr.
 Asst Lectr

Barker, C C H, *MSc Lond*
 Moses, S, *BSc*
 Englefield, M J., *PhD S'ton*

Sr. Lectr
 Lectr
 Lectr
 Lectr.

Zoology

Brambell, F W R, *BA PhD Dub*,
DSc Lond, *FRS*
 Jackson, L H, *BSc Lond*
 Reynoldson, T B, *DSc Leeds*
 Jones, W C, *MA PhD Camb*
 Acton, A B, *MA DPhil Oxon*
 Alexander, R McN, *MA PhD Camb*

Prof.
 Sr. Lectr
 Sr. Lectr.
 Lectr
 Lectr
 Asst Lectr
 Asst. Lectr.
 Res Asst.

Music

Parry Williams, D E., *DMus BSc*
 Smith, R. C., *DMus*
 Brindle, R. S., *DMus*
 Mathias, W., *BMus*
 Rands, B., *MMus*
 3 Executants and Teachers

Prof
 Lectr.
 Lectr.
 Lectr.
 Asst Lectr.

Philosophy

Mundle, C W K, *MA St And & Oxon*
 Thomas, L E, MA
 Jones, H M, *BLitt Oxon*, BA
 Miles, T R., *MA Oxon* (Psychol)
 McPherson, T H, *MA N Z*,
BPhil Oxon (see also Theol)
 Tucker, J W, *BA BSc PhD Lond*
 Matthews, Gwyneth M, *MA BLitt Oxon*,
 BA
 Stewart, D J, *BA PhD Brit.* (Psychol)

Prof
 Sr Lectr
 Sr Lectr
 Lectr
 Lectr
 Lectr
 Lectr
 Lectr

Physics, see also Electronic Engin

Andrew, E R, *MA PhD Camb*
 Wright, P, *PhD Camb & Wales*, *FIP*
 Morris, D P., *BSc PhD*
 Eades, R G, *PhD St And*
 Tredgold, R. H., *BSc PhD Nott*
 Llewellyn, J P, *BSc PhD Aberd.*
 Clough, S., *BSc*
 Charles, S W., *PhD*
 Jones, H. I., *MSc*
 Hurd, J. D., *BSc PhD Sheff*
 Bradbury, A., *BSc PhD*

Prof.
 Sr Lectr
 Sr. Lectr
 Lectr
 Lectr
 Lectr
 Lectr
 Lectr
 Lectr
 Asst. Lectr

Theology, see also Hebrew

Bowyer, Rev. Principal G., BA BD
 (Christian Doctrine) Sp. Lectr
 Jenkins, Prof. R T, CBE, LLB *Camb*, MA
Camb & Wales, DLitt Hon LLD, FSA
 (Church Hist) Sp. Lectr.
 Jones, Rev. Prof. R Tudur, *DPhil Oxon*,
 BA BD (Church Hist.) Sp. Lectr
 Jones, Rev Prof. T E, MA BD
 (Holy Scriptures) Sp. Lectr
 Lloyd, Rev Prof. G. R M., *BLitt Oxon*,
 BA BD (New Test) Sp. Lectr
 McPherson, T. H., MA N Z, *BPhil Oxon*.
 (Philos. of Religion) Lectr
 Richards, T, MA DLitt
 (Church Hist) Sp. Lectr
 Thomas, Rev I, BA BD
 (Holy Scriptures) Lectr.

Welsh

Williams, J. E. C., MA BD
 Roberts, Enid P., MA
 Rees, B., MA

Prof.
 Lectr.
 Lectr.

AGRICULTURE**Agricultural and Forest Zoology**

Hobart, J, *BSc Lond*
 Ford, J B, *PhD S'ton*
 Herbert, I V., *BSc Nott*, MS *Iowa*
 Cherrett, J M, *PhD Durh*

Sr. Lectr.
 Asst. Lectr.
 Asst. Lectr.
 Asst. Lectr.

Agricultural Botany

Harper, J. L., *MA DPhil Oxon*.
 Parry, D W., *MSc*
 Mence, Margaret J, *MA Camb*.
 Bradshaw, A D, *MA Camb*, *PhD*
 Sagar, G R., *MA DPhil Oxon*

Prof.
 Sr. Lectr.
 Lectr
 Lectr.
 Lectr.

Agriculture

Lucas, I A M, *BSc R'dg*, MS *McG.*
 Davies, G M, *BSc PhD*
 Williams, G. L., *BSc*
 Brown, W., MS *Pw due*, *BSc*
 Watson, J H., *BSc Durh*, *PhD Edin.*
 Alcock, M. B, *BSc*

Prof
 Sr. Lectr
 Lectr
 Lectr
 Lectr.
 Asst Lectr.

Biochemistry and Soil Science

Evans, W C., *PhD Manc*, *MSc, FRIC*
 Davies, R. I., *MSc Liv*
 Smithson, F, *DSc Lond*, *FGS*
 Evans, R A, *MSc*
 Thomas, A J, *MA Camb*
 Axford, R F E, *MA VetMB Camb*.
 Graham-Bryce, I J, BA *BSc Oxon*.

Prof.
 Sr Lectr
 Sr. Lectr
 Lectr
 Lectr
 Lectr
 Lectr

Marine Biology

Crisp, D J, *MA PhD Camb*
 Jones, C. B., *PhD*
 Spencer, C P, *BSc PhD Leeds*
 Jones, W E., *BSc PhD*
 Harvey, J. G, *BSc Lw* (Oceanog)

Dir.
 Dep Dir
 Lectr.
 Lectr
 Asst Lectr

UNIVERSITY EXTENSION

Dir. of Extra-Mural Studies Williams, A. LI, MA
 Tutors Jenkins, E., BA; Jones, F. P, BA,
 Griffith, D. J., BA; Williams, C. R., MA;
 Evans, M, *PhD Prin.*, BA.

ADMINISTRATIVE AND OTHER STAFF

Wardens of Halls of Residence A Eames, MA (Neuadd Reichel), Margaret T Martin, PhD Lond (University Hall) Dep Registrar, G B Owen, BCom Lond, FCIS Asst Registrar, E. Hughes, BA Accountant L. R. Waid.

Bldgs. Officer H J Slade Admin Assts J A R Forster, MA Oxon, D. G Pitchford, BA Library Assts Margaret D Jones, BA, R I J Tully, FLA Housemistress Marian Beaumont Maintenance Officer R O Williams

GENERAL INFORMATION

The coll., constituted by royal charter in 1884, was made a constituent coll of the Univ in 1893

INCOME (1959-60) Total income, £552,589 (incl. univ. grant, 84 per cent; endowments, 1 per cent., fees, 11 per cent).

FACULTIES AND DEANS Arts, Rev. Prof B. J. Roberts (Hebrew); *educn*, Prof. D W T Jenkins; *sci.*, Prof W. C Evans (biochem & soil.sci.); *theol*, Rev. Principal G Bowyer

LIBRARIES General, 255,507 vols (theol. a strong feature) Welsh, 89,514 (incl the largest and best-equipped collection of Welsh periodicals in existence), MSS, 200,000

MUSEUMS include (a) museum of Welsh antiquities; (b) a zoological section comprising a large collection of vertebrate and invertebrate animals and a collection of human bones representative of the different races of mankind, (c) a collection of Welsh domestic and agricultural bygonies together with Roman finds from Segontium and Capel Curing

FARM, 675 acres, chiefly sheep pasturage and dairy.

ADMISSION Those wishing to read in the coll. for a degree (awarded by the Univ. of Wales) must satisfy the univ. admission requirements. See Appendix II.

NON-MEMBERS OF THE COLL. may be admitted as occasional students to classes at the discretion of the deans of facs.

FIRST DEGREES (of Univ of Wales) In addition to the normal courses in arts, there are courses in theol. for BD degree, in music for BMus degree, and full courses for the BSc in agric and rural econ., and for, as well as in pure sci. There are hon.s degrees as well as pass degrees in arts and sci (see pp. 1104-5). Students who have reached a sufficiently high standard before entry can complete an hon.s degree course in 3 yrs. Other students will require 4 yrs. to complete an hon.s. degree course, or they may complete a pass degree course in 3 yrs. Other courses: 1st yr. of degree course in archit., med., pharm.; 1st yr. vet sci.

HIGHER DEGREES (of Univ. of Wales) Res work for higher degrees of the univ (see p. 1195) is carried out in all depts. Sp. facilities in Welsh lang. & lit., hist of Wales, marine biol., agric, and animal health

DIPLOMAS. *Univ. dipls*: theol., 3 yrs., agric sci., educn., for., palaeog. & archives admin., 1 yr postgrad *Coll dipl*: mathl. phys., 1 yr postgrad

CERTIFICATES. *Univ. of Wales Sch. of Educn* teacher's cert

STUDY LEAVE Study leave may be applied for when a member of staff has been in the coll for 7 yrs. An endowed trust fund meets the cost of addnl. expenditure incurred by members of staff during their periods of study leave

FEEs See under Univ. of Wales, above.

ACADEMIC YEAR Oct to June: 3 terms of approx 12 wks each.

ADULT EDUCATION (see also 'Teaching Staff', above) Local lectures in lit., econ and agric.; small lending libraries, tutorial and preparatory classes in 6 counties

SCHOLARSHIPS. 12 scholps., which may be supplemented by Ministry of Educn, are open for award to students entering the coll. to read for a first degree.

POSTGRADUATE AWARDS open to grads of other univs: see p 808

APPOINTMENTS BOARD. See under Univ. of Wales, above

RESIDENCE (For wardens, see 'Admin. and Other Staff', above) Neuadd Reichel (tel. Bangor 708) provides accomm. for 160 men (fee, £165 p.a.) and University Hall (tel. Bangor 633), with its annexes, for 145 women (fee, £160 p.a.) The warden of women students is also warden of University Hall

PRINCIPAL STUDENT ATHLETIC FACILITIES. The coll has extensive playing-fields for rugby, soccer, hockey, tennis and net-ball. The gymnasium has a ring for the use of the boxing club and provision is also made for fencing and badminton. In addition, there is a well-equipped rowing club.

STUDENT HEALTH SERVICE. See under Welsh Natl Sch of Med., below

STUDENTS' UNIONS In addition to the normal union facilities in the coll. itself, a large house has been converted into a union.

PUBLICATIONS. *College Magazine*, one issue per term, 1s., *Prospectus Handbook*, free.

THE YEAR 1960

PRINCIPAL BENEFACTIONS Total value of all 491, *educn*, 92, *electr engin*, 81; *for*, 59;
benefactions received £43,855 *music*, 9, *pure sci*, 404, *theol.*, 16 Total: 1275

MAJOR BUILDING DEVELOPMENTS. *Bldgs completed* phys.

RETIREMENTS Prof E J Roberts (agric),
R W King (Engl)

RESIGNATIONS Rev D W. Gundry (theol),
apptd to chair of theol, Univ Coll, Ibadan,
Dr. Valerie Morris (marine biol); Joyce Simpson
(French)

Statistics

STUDENT NUMBERS, 1960-61

	<i>Full-Time</i>	<i>Part-Time</i>
Men	851	25
Women	424	12
Total	1275	37

Distribution by Faculties *Agric.*, 123, *arts*,

Included in the figures above are:—

Postgraduate students, 214

New admissions, 445

Students from other countries, 71 (Countries
from which largest numbers came. India, 9;
Mauritius, 7, Nigeria, 6)

DEGREES AWARDED (by Univ of Wales) (1959-
1960) *Agric* · BSc (hons) (agric), 27. *Arts*:
BA, 36, BA (hons), 77, MA, 5 *Electr engin* ·
BSc (hons), 5 *Musc* · BMus, 1; MMus, 1
Sci · BSc, 88, BSc (hons), 52, MSc, 3 *Theol* ·
BD, 4 PhD (all faces). 20

DIPLOMAS AWARDED (1959-60). *By Univ of*
Wales. *educn.*, 76, *palæog*, 1

CERTIFICATES AWARDED (1959-60) *Educn.*, 9,
French, 5

[Information compiled as at 16/10/61]

UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF

Founded 1883

Postal Address . Cathays Park, Cardiff, Wales

Telegrams : Coleg, Cardiff

Telephone : Cardiff 20781

PRESIDENT—The Rt. Hon. LORD DYNEVOR

TREASURER—D W VAUGHAN

PRINCIPAL—A. STEEL, OBE, JP, MA *Oxon.* & *Camb.*, LittD *Camb*

REGISTRAR—E. R EVANS, MA *Oxon.*

LIBRARIAN—R J BATES, MA *Oxon*

TEACHING STAFF

[† = Part-Time]

Anatomy

Lever, J D, MA MD *Camb*
Jacoby, F., MD *Berl*, PhD *Birm.*

(Histol) Reader

Hughes, H, BA MB ChB *Liv*, MSc
Moffat, D B, MD BS *Lond*, FRCS
Craigmyle, M B., MD ChB *Glas.*
Irvine, G., MB ChB *Edn.*

Sr. Lectr
Sr Lectr.
Sr Lectr.
Lectr

U.K.—WALES

Beck, F., MB ChB *Birm*Lectr
Asst Lectr

1 Demr, 1 Res Asst

Thomas, Elizabeth, MA *Lond*, BA(Latin) Lectr
Walcot, P., PhD *Lond.*, MA *Yale* (Greek) Lectr
Wilkins, J. B., MA *Camb* (Latin) Asst Lectr**Archæology**Atkinson, R. J. C., MA *Oxon*, FSAProf
Sr. Lectr
LectrAloock, L., MA *Oxon*, FSAJarrett, M. G., BA PhD *Durh.***Economics and Social Science**Thomas, B., OBE, PhD *Lond.*, MA

Jones, L., MA

Parris, S. C., BSc(Econ) *Lond.*Maynard, G. W., BSc(Econ) *Lond.*Crichton, Anne, MA *Liv* (Soc Sci.) Lectr

Edwards, Mary E., BA (Soc Sci.) Lectr

Wakeford, J., BA *Nott.* (Soc Sci.) Asst LectrPole, J. D., BA *Camb* (Econ) Lectr

Chaudhuri, P. M., BA (Econ) Asst Lectr

Ridgway, Gillian, BCom MSocSci *Burm*

(Econ.) Asst. Lectr

Collard, D. A., BA *Camb* (Econ) Asst LectrMackeson, J. F., BA *Camb.* (Law) Lectr.Knight, M. T., LLB *Dub* (Law) Asst. Lectr.Magee, C. C., BCom *Lond*, FCA (Accy) †LectrGibbs, J. M., MA *Camb & Lond.* (Psychol.) †Lectr.

2 Res Assts

ArchitectureJohn, L., MA BArch *Lsv*, FRIBA

Lectr.

BiochemistryPryde, J., BSc *St And.*, DSc

Prof

Dodgson, K. S., BSc PhD *Lsv*

Reader, Dir of Res Lab.

Rose, F. A., BSc PhD

Lectr

Lloyd, A. G., BSc PhD

Lectr.

Powell, Gillian M., BSc PhD

Asst Lectr

Tudball, N., BSc PhD

Asst. Lectr

1 Res. Fellow

BotanyAsprey, G. F., PhD DSc *Burm.*

Prof.

Percival, Mary S., BSc *Edm.*, PhD

Sr Lectr

Arney, S. E., MA *Oxon*

Sr Lectr

Benson-Evans, Kathryn, MSc, FLS

Lectr

Hyde, H. A., MA *Camb*, FLS(Econ B) Hon Lectr., Keeper of Bot
in Natl MuseumLyon, A. G., BSc *St And.*, PhD *Camb.*

Lectr.

Harvey, R., BSc, FLS

Lectr.

Tallack, C. C., BSc *Burm.*

Lectr.

Hill, E. C., MSc

(Microbiol) Lectr.

Williams, Mrs M. Ann, MSc (Microbiol) Lectr.

Callely, A. G., BSc PhD *Leeds*

(Microbiol.) Lectr.

Evans, A. D., BSc MB BCH

Hon Lectr.

ChemistryEvans, A. G., PhD DSc *Mane*, FRIC

Prof.

Cullinane, N. M., DSc *N.U.I.*, MSc, FRIC

Sr Lectr

Pinder, A. R., BSc PhD *Sheff*, DPhil *Oxon.*

(Org. C) Sr Lectr

Chard, S. J. H., MSc, FRIC

Lectr

Thorne, N., MSc PhD

Lectr

Thomas, J. H., BSc PhD *Lsv*

Lectr

Phillips, G. O., BSc PhD

Lectr

Whittle, E., MSc PhD *Mane*

Lectr

Houghton, R. P., BSc PhD *Lond*

Asst. Lectr.

Owen, E. D., BSc PhD

Asst Lectr

Warren, K. D., BSc *Leic.*, PhD *Lond*

Asst Lectr.

Blake, P. G., BSc *Lond.*, DPhil *Oxon*

Asst Lectr

ClassicsRees, B. R., MA *Oxon*, PhD

(Greek) Prof

Moritz, L. A., MA DPhil *Oxon*

(Latin) Prof.

Tetstall, R. G., MA *Camb*

(Greek) Lectr

White, Sheila, BA *Lsv*

(Latin) Lectr.

EducationEvans, E., MA *Oxon*, BA

Prof

Mulrenan, B. W., BA *Sheff*

Lectr.

Simpson, E. B., MA BSc *Lond*

Lectr

Griffith, Mignon B

(Art) Lectr.

Evans, L. Wynne, MEd *Durh*, MA PhD

Lectr

Bull, Beryl M., MA

Lectr

Williams, Ethel M

Lectr

Thomas, H., BMus

Lectr

Mathias, W. A., MA

Lectr

Othen, C. W., MSc, FRIC

Lectr

Pitts, R., MEd *Mane*, MA

Lectr

Davies, Rev T. G., BA BSc

Lectr.

Davies, Nan E. J., BA

Lectr

Ashton, B. D., BA

Lectr.

Powell, J. D., BA

Sp Lectr.

Education, Collegiate Faculty ofEvans, R. H., MA *Oxon*

Lectr, Sec.

Evans, Kathleen M., MA BSc PhD *Lond.*

Lectr, Res Officer

Jones, J. G., MSc

Lectr, Admin. Officer

1 Res Asst.

EngineeringGurney, H. C. H., MA *Camb*, DSc *Lond*,

FIP, FRAES (Civil E) Prof.

Williams, E., BEng PhD *Lsv*, MIEE

(Electr E) Prof

Hutton, S. P., DEng *Lsv*, PhD *Lond*,

MIMechE (Mech E) Prof.

Bannister, J. L., BScTech *Mane*, MSc

Sr. Lectr

Ashwell, D. G., MA PhD *Camb.*

Sr. Lectr.

Platt, J., BSc PhD

Sr. Lectr

Sheen, F. V., BSc

Lectr.

Bray, R. O., BSc *Lond*

Lectr

Davies, W., BSc PhD

Lectr

Trigg, C. F., MSc	Lectr	Aguirre, J. M., <i>LicenDerecho Saragossa</i> ,	
Powell, W. H., PhD MSc	Lectr	PhD Camb.	Lectr.
Butler, L. H., MSc(Eng) Lond., MSc	Lectr	Close, Mrs Lorna J., BA Camb	Asst Lectr
Slyper, H. A., BSc Durh	Lectr	1 Lectora in Spanish, 1 Lectora in Portuguese	
Lewis, T. T., BSc	Lectr.		
Drury, R. D., BSc Birm	Lectr		
Thomas, J. G., BSc PhD Brit.	Lectr.		
Thomas, W. F., MSc PhD	Lectr.		
Brinkworth, B. J., MSc(Eng) Brit.	Lectr.		
Porter, D. M., BSc	Lectr.		
MacDermott, T. J., MSc Lond	Hon. Lectr		

English Language and Literature

Llewellyn, E. C., MA BLitt Oxon, BA	Prof	Roots, I. A., MA Oxon	(on leave) Sr Lectr
Thomas, R. G., MA PhD	Sr. Lectr.	Loyn, H. R., MA	Sr. Lectr.
Klingopoulos, G. D., MA Camb.	Sr. Lectr.	Powell, I. B., BA	Lectr
Williams, Kathleen M., MA Oxon.	Sr. Lectr.	Edwards, E. W., MA	Lectr
Elliott, C., MA	Lectr	Williams, L. H., MA	Lectr
Quinn, H. M., BLitt Oxon., BA	Lectr	Knowles, C. H., BA PhD	Lectr
Brown, Eluned M., MA	Lectr	Temple, Nera C., BA PhD Lond	Asst. Lectr
Evans, W. O., BLitt Oxon., BA	Lectr	Henriques, Ursula, MA BLitt Oxon.,	Asst Lectr.
James, G. I., MA	Lectr	PhD Manc.	
Hawkes, T., MA	Lectr		

French and Romance Philology

Thomas, J. Heywood, DUParis, MA	Prof		
Morse, B. J., MA	(Italian) Sr. Lectr		
Butler, P. F., L&L Lausanne, PhD	Sr. Lectr		
Spencer, R. H., BA Leeds	Lectr		
Morris, Thelma, DUParis, BA	Lectr.		
Sullivan, W. A., BA	Asst. Lectr.		
Jones, F. J., MA BLitt Oxon., DUParis	(Italian) Lectr.		
Alessio, A., DottinLett Genoa	(Italian) Lectr.		
Eyquem, R., L&L Bordeaux	(French with Italian) Lectr		
Jenkins, T. H., DUParis, MA	(French with Italian) Asst. Lectr		
French, 1 Lecteur, 1 Lectrice; Italian 1 Lettore			

Fuel Technology, see Metall. and Fuel Technol**Geology**

Anderson, J. G. C., MA DSc PhD Glas,	Prof		
FGS			
Blundell, C. R. K., BSc PhD, FGS	Sr Lectr		
Baker, J. W., BSc Birm, FGS	Lectr		
Lemon, G. G., BSc, FGS	Lectr		
Appleby, R. M., MSc PhD Manc, FGS	Lectr		
Bidgood, D. E. T., BA Camb	Asst Lectr.		
1 Res Demr			

German

Williams, T. P., MA	Prof		
Jones, Mrs V. Isabel, MA Edin	Lectr.		
Gillespie, G. T., MA Lond.	Lectr		
1 Lektor			

Hispanic Studies

Reckert, S., PhD Yale, MLitt Camb.	Prof.		
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History of Wales

Pierce, G. O., MA	Prof		
Rowlands, E. I., MA	Lectr		

Industrial Relations

Fogarty, M. P., MA Oxon	Prof.		
Belfour, W. C., BSc(Econ) Lond., MA	Lectr		
Thomson, G. F., BA Sheff., MA Trin	Lectr.		
Chadwick-Jones, J. K., MA Oxon, PhD	Lectr.		
Gerstl, J. E., MA Col., PhD Minn.	Temp Asst Lectr.		

2 Res Assts

Italian

Morse, B. J., MA	St. Lectr		
Jones, F. J., MA BLitt Oxon, DUParis	Lectr		
Alessio, A., DottinLett Genoa	Asst. Lectr.		
1 Lettore			

Law

Mackeson, J. F., BA Camb.	Lectr, Dir of Legal Studies		
Parnis, S. C., BSc(Econ) Lond	Lectr		
Magee, C. C., BCom Lond, FCA	Lectr.		
Jones, J. A. O., BA Oxon & Wales	Lectr.		
Williams, D. B., BA Oxon	Lectr		
Knight, M. T., LLB Dub.	Asst. Lectr.		

Mathematics

Cooper, J. L. B., BSc Cape, MA DPhil Oxon	(Pure M.) Prof, Hd. of Dept.		
Landsberg, P. T., DIC, MSc PhD Lond.	(Appl. M.) Prof.		
Morris, Rosa M., PhD Camb., BSc	Sr Lectr		
Chisholm, J. S. R., MA PhD Camb.	Sr. Lectr.		
Pope, A. H., MSc Lond	Lectr.		
Hughes, N. J. S., MA PhD Camb.	Lectr.		
Gould, G. G., MA Camb, PhD Lond.	Lectr		
Edmunds, D. E., BSc PhD	Lectr		
Harris, D. J., BSc Cape, MA Camb	Lectr.		
Rugby, J. F., MA PhD Camb.	Lectr		

Gangadharan, K. S., BSc *Ceyl.*, BA
PhD *Camb* Lectr
Morgan, D. J., PhD *Durh.*, BSc
(Appl. M.) Asst. Lectr
Thorpe, B. L. D., BSc *Durh* Asst. Lectr

Metallurgy and Fuel Technology

Lloyd, H. K. M., PhD *Sheff.*, BSc Prof
Evans, T., BSc *Lond & Wales* Lectr
(Fuel Technol.) Sr. Lectr
Gauwood, R. D., MSc (Metall.) Sr. Lectr.
Carpenter, D. L., BSc PhD
(Fuel Technol.) Lectr.
Wilson, A. J. C., MSc *Dal.*, PhD *Camb &*
M.I.T., FIP (X-ray Metallography) Lectr
Rawlings, R., BSc PhD, FIM Lectr
Taylor, J. L., BSc Lectr
Richards, G. L., BSc Asst. Lectr
1 Res. Demr.

Mining

Singclair, J., MEng PhD *Sheff* Prof
Platt, J., BSc PhD Sr. Lectr
Probert, L., BSc Lectr
Powell, W. H., MSc PhD Lectr
Brown, K. M., BSc Lectr
Potter, R. D., BSc Lectr.
Taylor, J., BSc Temp. Lectr.
1 Res. Demr.

Music

Morgan, J., DMus, FRCO Prof.
Bruce, I. M., MA MusBac *Edin.* Sr. Lectr.
Collier, D. G., MMus Lectr
Bruce, R., DFC, MusBac *Edin* Lectr.
Hoddinott, A., DMus Lectr

Chamber Music Players (Lectr. Grade)

Piggott, P. (Piano) Teacher
Wang, A. (Violin) Teacher
Mutter, G. N. (Viola) Teacher
Isaac, G. (Cello) Teacher
Popperwell, S., MA MusBac *Camb*
(Violin) Teacher

And teachers of Singing, Pianoforte, Organ
and all orchestral instruments

Philosophy

de Selincourt, O., MA *Oxon.* Prof
Evans, J. L., MA DPhil *Oxon.* Sr. Lectr
Brunton, J. A., MA *Oxon* Lectr
Palmer, N. H., MA *Oxon* Lectr.

Physics

Wilson, A. J. C., MSc *Dal.*, PhD *Camb.* &
M.I.T., FIP Prof
Hughes, J. W., BSc PhD, FIP Sr. Lectr
Harker, G. F. H., MA *Camb* Lectr
Rowland, E. N., MA PhD *Camb.*
(Theoret. P.) Lectr.
Wood, R. G., MSc *Manc.*, FIP Hon. Lectr
Howells, R. G., MSc Lectr.
Grant, D. F., BSc PhD *Durh.*, FIP Lectr
Vousden, P., BSc PhD *Brist* Lectr

Hine, R., BSc PhD Lectr
Richards, J. P. G., BSc PhD Lectr
Delf, B. W., BSc *Birm* Asst. Lectr
Dewsbury, R., BA *N Staffs.*, MSc *Birm* Asst. Lectr
2 Res. Assts

Physiology

Peterson, J. M., DSc *Aberd.* Prof
Jordan, R. C., PhD DSc *Lond* Reader
Waters, E. T., PhD DSc Sr. Lectr
Stone, S. L., MSc MB BCh Sr. Lectr
Beswick, F. W., BSc MB BCh Lectr
Davies, H. E. F., BS MD *Lond*, BSc,
MRCP Lectr.
Mottram, R. F., BSc MB BS PhD *Lond* Lectr

Semitic Languages

Johnson, A. R., Hon. DD *Edin.*, PhD, FBA Prof.
Rowlands, Rev. E. R., BA *Camb.*, MA Lectr.
Ryder, Rev. E. T., MA *Oxon.*, BD *Lond* Lectr.
Griffiths, Rev. D. R., MA *Oxon.*, MTh Lectr
Lond

Spanish, see Hispanic Studies**Welsh**

Jarman, A. O. H., MA Prof.
Lewis, C. W., BA Lectr.
Rowlands, E. I., MA Lectr.
Lewis, A., MA Lectr.
Thomas, Miss Cemwen H., PhD *NUI*,
MA (Dialectol.) Lectr
Owen, Miss Morfydd E., BA *Camb.* &
Wales Asst. Lectr

Zoology and Comparative Anatomy

Brough, J., DSc *Manc* Prof
Jefferson, G. T., BSc *Lond.*, PhD
(Entomol.) Sr. Lectr
Evans, W. A. L., BSc *Birm.*, MSc PhD Lectr
Erasmus, D. A., BSc PhD Lectr
Staddon, B. W., BSc PhD *Durh* Lectr.
Williams, H. H., BSc PhD Lectr
Thompson, T. E., BSc PhD Lectr
Claridge, M. F., MA DPhil *Oxon.* Asst. Lectr
1 Res. Demr.

EXTRA-MURAL STUDIES

31 Corbett Rd., Cathays, Cardiff
(Tel. Cardiff 26071)

... Du of Extra-Mural Studies

Organizing Tutors

I Morgan, MA (Tutor-in-Charge), V. H. Jones,
LLB *Lond.*, BA; M. R. Hausheer, BA,
W. C. E. Gregory, MA *Camb.*
Staff Tutors: E. Hodges, ...
137 Tutors

ADMINISTRATIVE AND OTHER STAFF

Asst Registrar Aeron Lewis Bursar · W J Davcy
Warden of Aberdare Hall Barbara E How, MA Oxon
Warden of University Hall · R D Cameron, MA Oxon
Warden of Llandaff

House · J D Pole, MA Camb Students' Advisory Officer W. H. Morgan, BSc(Econ) Lond,
BSc Asst Mrs Lore Fraser

ASSOCIATED INSTITUTIONS

WELSH NATIONAL SCHOOL OF MEDICINE (see p 1215) and the WELSH COLLEGE OF ADVANCED TECHNOLOGY, Cardiff (tel. Cardiff 31546, Principal · A. Harvey, PhD BSc, FIP) These

two instns are associated with the coll. in preparing candidates for the BPharm, and the latter institution also in preparing candidates for the BArch See below under 'Degrees'

GENERAL INFORMATION

Opened in 1883 and incorporated by royal charter in 1884, this is now one of the constituent colls. of the Univ of Wales. In 1931 a supplemental charter was granted to the coll. and a charter of incorporation to the Welsh Natnl Sch of Med.

INCOME (1959-60) Total income, £739,873 (univ grant, 81.8 per cent; endowments, 13 per cent., tuition fees, 13.6 per cent; other sources, 3.3 per cent)

FACULTIES AND DEANS Arts (1961-63), Prof A O H Jarman (Welsh); educn, Prof E Evans, music, Prof J Morgan, sci. (1960-62), Prof A J C Wilson (phys); theol, Prof A R Johnson (Semitic langs)

LIBRARY. Drapers' Co.'s libr., 171,000 vols

MUSEUMS Anat, zool The Natnl Museum of Wales (art, archaeol, zool, geol, bot) is located in an adjacent bldg.

LABORATORIES Physical res, with comprehensive equipment for X-ray diffraction investigation, etc; engin (including 100-ton testing machine); and usual sci and med res labs.

ADMISSION Classes are open to both men and women students of not less than 17 yrs on Oct. 1 of the session of admission Those wishing to read in the coll for a degree of the Univ of Wales must satisfy the univ admission requirements See Appendix III

FIRST DEGREES (of Univ of Wales) Candidates are prepared for the following initial degrees of the univ (see pp. 1194-5) BA, BMus, BSc (3 yrs each, except BSc in engin, 4 yrs), and in part for the degrees of BArch (6 yrs) and BPharm (4 yrs). Med students preparing for the MB BCh (6 yrs) of the univ. pursue their prelim. med. studies at the coll. and their clin. studies at the Welsh Natnl Sch. of Med. The 1st part of the course for the BArch of the univ., occupying 1 yr, can be pursued at the coll., while the 2nd part, occupying 5 yrs., is pursued at the Welsh Sch. of Archit. in the Welsh Coll. of Advanced Technol., Cardiff. Candidates preparing for the BPharm of the univ are enrolled at the coll., pursue their studies at

the coll for the initial period of their course, and continue their trg. partly at the coll., the Welsh Natnl Sch of Med and the Welsh Sch of Pharmacy in the Welsh Coll of Advanced Technol., Cardiff

Full-time residence is required of all candidates for a first degree.

HIGHER DEGREES. Res facilities and postgrad courses of study are provided for candidates for higher degrees of the univ. (see p. 1195) and other univs.

DIPLOMAS Univ. dipls educn, 1 yr. postgrad; theol., 3 yrs Coll. dipls metalliferous mining, metall., each 3 yrs; music, 2 yrs; soc sci., 2 yrs (but 1 yr for grads.), personnel management, post-credencial dipl in appl. soc studies, each 1 yr After graduation in certain subjs., suitably qualified students desirous of securing a dipl in their sp suby may be awarded one without further study, while in other cases a grad may be awarded such a dipl after pursuing a modified course for 1 yr.

SCHOLARSHIPS. Numerous scholps. out of trust funds are awarded for competition at entrance, and after one or more yrs' residence other scholps and prizes are awarded for meritorious work (Details in college Prospectuses obtainable from the registrar)

POSTGRADUATE AWARDS open to grads. of other univs see p 808.

FEES See under Univ. of Wales, above.

RESIDENCE. (For wardens, see 'Admin and Other Staff', above) Hostel for women: Aberdare Hall, Cathays Park, Cardiff (tel. Cardiff 21877), accomm for 133, fees £160 per session (with luncheons). Hostels for men: University Hall, Burchwood Rd, Penylan, Cardiff (tel: Cardiff 35641), accomm for 218, fees £135 per session (without luncheons); Llandaff House, Earl Rd, Penarth, Glam (tel. Penarth 57995) (the warden), accomm for 38, fees £120 per session (without luncheons) Board and lodging in Cardiff can be obtained from £4 per week

STUDENT WELFARE Students seeking advice on lodgings in Cardiff and on careers in their last yr.

are advised to consult the coll. students' advisory officer, 51 Park Place, Cardiff (tel. Cardiff 29802) (see 'Admin and Other Staff', above). New students from overseas are especially advised to see him as soon as possible after their arrival in Cardiff.

STUDENT HEALTH SERVICE See under Welsh Natl Sch of Med, below.

STUDENT ATHLETIC FACILITIES Playing grounds are provided for most field sports, as well as facilities for swimming and rowing. A modern well-equipped gymnasium in its own building (49 Park Place, Cardiff) is also provided for the exclusive use of students. There is a lectn in physical trg for men and one for women, who act as coll advisers in physical trg and games.

STUDENTS' UNION The union bldg in Dumphries Place, Cardiff (tel. Cardiff 29846, 25807), provides for the social and cultural life of the student body; it has a refectory which is sometimes used for dances, lounges and games rooms, and it houses the headquarters of the students' union soc. Every student is required to pay a

union amalgamation fee of £7:7s (£8.4s 6d for med. students), which compounds for membership of the students' union soc. and of all student clubs and socs. affiliated to it. (Student publications are the *Broadsheet*, *Cap and Gown*, *Horizon*, *Wail* and *Outrage*).

ADULT EDUCATION (for staff, see 'Extra-Mural Studies', above). A number of resident tutors and a staff tutor, aided by a panel of suitably qualified pt-time teachers, provide an educnl service in liberal studies for the adult population of the coll area. A section of the coll library is devoted to the service of the classes, providing multiple copies of selected text-books on a wide range of topics. This branch of coll work has its office at 31 Corbett Rd, Cardiff (tel. Cardiff 26071).

PUBLICATIONS. *Annual Report of Coll Council and Statement of Coll Accounts* (Oct.), *Admission of Students* (terms of) (Oct.), *General Prospectus* (with syllabuses of study) (March), *Pharmacy Prospectus* (May), *Entrance Scholarships Prospectus* (Oct.), *Calendar* (triennially).

THE YEAR 1960

PRINCIPAL BENEFACTIONS. Total value of all benefactions received. £68,077.

RESIGNATIONS. Dr. N. McCord (hist.).

DEATHS. Dr J. S. Baxter (formerly prof. of anat.).

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	1397	42
Women . . .	611	39
Total	2002	81

Distribution by Faculties, etc. *Appl sci*, 277; *archit*, 10; *arts*, 887; *med.*, 142; *music*, 60; *pharm.*, 78; *physiotherapy*, 28; *pure sci.*, 532; *solicitors' law*, 23; *theol*, 46. Total: 2083.

Included in the figures above are.—

Postgraduate students, 251

New admissions, 740.

Students from other countries, 133 (Countries from which largest numbers came: Iraq, 36; India, 19; Kenya, 10; Nigeria, 9).

DEGREES AWARDED (by Univ of Wales) (1959-1960) *Archit*: BArch, 2. *Arts*: BA, 205; MA, 11; DLitt, 1. *Med*: MB BCh, 44; MD, 2. *Musc*: BMus, 6. *Pharm*: BPharm, 19. *Sci*: BSc, 184; MSc, 8; DSc, 1; PhD, 18. *Theol*: BD, 6.

DIPLOMAS AWARDED (1959-60) *By Univ. of Wales*: teachers' dipl in educn., 120; theol., 3. *By coll*: music, 5; soc. sci., 15; personnel management, 21; metall. mining, 7.

CERTIFICATES AWARDED (1959-60) *By Univ of Wales Sch. of Educn*: teacher's cert. in educn., 3.

[Information compiled as at 31/8/61]

UNIVERSITY COLLEGE OF SWANSEA

Founded 1920

Postal Address. Singleton Park, Swansea, Wales

Telephone. Swansea 56172

PRESIDENT—The Rt Hon THE VISCOUNT TENBY, TD, LLD

CHAIRMAN OF THE COUNCIL—Sir LEWIS JONES, JP, LLD

TREASURER—P O. WILLIAMS, CBE

PRINCIPAL—J H PARRY, CMG, MBE, MA PhD Camb

REGISTRAR—J MCINTYRE, MA Glas

LIBRARIAN—F J. W. HARDING, MC, MA BLitt Oxon, FLS, FRHistS

TEACHING STAFF

Botany

Street, H. E., PhD DSc Lond Prof.
 Isaac, I., PhD Camb, DSc, FLS Sr Lectr
 Goodman, G. T., MSc Lectr
 Hayward, J., BSc PhD Lectr.
 Brown, E. G., BSc PhD Luv Lectr
 Smith, A. J. E., BA Oxon., FLS Asst Lectr
 Opik, Helga, BSc Belf Asst. Lectr
 1 Res Fellow, 1 Demr

Bell, I. C., MA Lectr.
 Rees, G. L., MA Lectr
 Cleary, E. J., BA Manc. Lectr.
 Baird, W., MA Edm. Asst. Lectr.
 Thomas, W. A., BSc(Econ) Lond. Temp. Tutor

Education

Gittins, C. E., MA Prof
 Stephens, D. J., MSc Lectr, Master of Method
 Lewis, Edith A., MSc PhD

Lectr, Mistress of Method

Chemistry

Hassall, C. H., MSc NZ, PhD Camb, FRIC Prof.
 Long, D. A., MA DPhil Oxon Sr Lectr
 Davies, R. H., MSc Lectr
 Summers, G. H. R., MSc PhD Lectr.
 Hallam, H. E., PhD Lond, MSc Lectr.
 Curtis, R. F., BSc PhD Brist Lectr
 Stedman, G., BSc PhD Lond Lectr
 Gallagher, K. J., BSc PhD Belf. Lectr
 Schofield, J. A., BScTech PhD Manc Lectr.
 Cross, J. R., DPhil Oxon., BSc Supt of Labs
 Ballantine, J. A., BSc PhD Luv Lectr
 5 Res. Fellows, 2 Demrs

Dale, R. R., MA Luv, MEd Leeds Lectr.
 Jones, V., BA (Phys E.) Lectr.
 Smith, A. J., MA Lectr
 Brown, A. (Speech Trg.) Lectr.
 Rothera, H., MA Manc. Lectr
 Chazan, M., BA Lond & Wales, MA Birm. Lectr.
 Spolton, L., BSc Lond, MEd Nott. Lectr.
 Begley, G. B., BSc Lond, BEd Belf. Lectr
 Button, L., BSc(Econ) PhD Lond Lectr
 Jones, B., DPhil Oxon, BA Lectr
 Williams, I. W., BSc PhD Lectr
 Williams, P., BSc PhD Lond, MA Camb Lectr

Classics

Kerferd, G. B., BA Melb, MA Oxon. Prof
 Hill, H., MA Sheff Sr Lectr
 Moorhouse, A. C., MA Camb Sr. Lectr
 Griffiths, J. G., DPhil Oxon, MA Luv, BA Sr Lectr
 Smyth, W. R., MA Dub Lectr

Economics

Morgan, E. V., MA Camb Prof.
 Roberts, R. O., MA (on leave) Sr. Lectr.

Engineering

Macmillan, R. H., MA Camb, MIMechE (Mech. E.) Prof.
 Zienkiewicz, O. C., DIC, BSc PhD Lond (Civil E.) Prof
 Fishwick, W., MA PhD Camb (Electr E.) Prof
 Rockey, K. C., MSc PhD Lond (Civil E.) Sr Lectr.
 Daniels, T. C., MSc Lectr
 Sandover, J. A., DIC, BSc Lond., PhD Edm. Lectr.
 Dickinson, H., BScTech Manc. Lectr.
 MacCormack, J., BSc Lectr.

Gosling, H. W., BSc *Lond*
 Townsend, W. G., BSc *PhD*
 Davics, J. D., MSc(Eng) *Lond*
 Evans, H. E., BSc *PhD*
 Davies, T. H., MA *Camb*
 Christie, D. M. E., MSc *Durh*, BSc
 Dunmore, R. O., BSc(Eng) *Lond*
 Venkateswaran, S., BSc MA *Madr*
 Preece, B. W., BSc *Brist.* Asst Lectr.
 Griffiths, R. T., BSc *Brist* Asst Lectr.
 Phillips, V. J., DIC, BSc(Eng) *PhD Lond*
 Eder, W. E. Asst Lectr.
 Mansell, D. S., MEngSc *Melb* Asst Lectr.
 Nicol, A. A., PhD *Edin* Asst Lectr.
 Ramshaw, R. S., BSc *Nott* Asst Lectr.
 1 Res. Fellow, 2 Demrs.

Engineering, Chemical

Richardson, J. F., DIC, BSc(Eng) *PhD Lond.* Prof.
 Lee, J. C., MA *PhD Camb* Lectr.
 Smith, J. M., MScTech *Manc.* Lectr.
 Wood, R. M., BSc *Leeds*, PhD *Camb* Lectr.
 Thomas, W. J., PhD *Lond*, BSc Lectr.
 Gunn, D. J., MSc *Durh* Lectr.

English

Price, C. J. L., MA *PhD* Prof.
 Bartley, J. O., DLit *Belf* Sr. Lectr.
 Westcott, Isabel M., BA *Brist*,
 BLitt *Oxon* Lectr.
 Sims, D. L., BA *Oxon* Lectr.
 Dawson, S. W., MA *Manc* Lectr.
 Anglo, S., BA *PhD Lond* Lectr.
 Erskine-Hill, H. H., BA *PhD Nott* Asst Lectr.

French

Knight, R. C., MA *Oxon*, DStL *Paris* Prof.
 George, F. W. A., BA *PhD Lond* Lectr.
 Mylne, Vivienne G., BA *Oxon*,
 PhD *Lond.* Lectr.
 Lewis, R. A., MA Lectr.
 Harry, Patricia M., MA *Manc.* Temp Tutor
 Bates, Mrs. Joan A., BA *S'ton* Temp Tutor

Geography

Balchin, W. G. V., MA *Camb*, PhD *Lond*,
 FRMetS Prof.
 Oliver, J., BA *Brist.*, FRMetS
 (on leave) Sr. Lectr.
 Groom, Gillian E., BSc *Birm*, FGS Lectr.
 Malng, D. H., BA *PhD Durh*, FRMetS Lectr.
 Cousens, S. H., MA *PhD Camb.* Lectr.
 Manners, G., MA *Camb.* Lectr.
 Davies, H. R. J., MA *Oxon* Lectr.
 Humphrys, G., BSc *Brist.*, MA *McG* Lectr.
 Henderson, H. J. R., BSc *Sheff.*, MA *Liv*
 Asst Lectr.
 Bridges, E. M., MSc *Sheff* Asst Lectr.
 1 Map Curator & Cartographer

Geology
 Rhodes, F. H. T., BSc *PhD Birm*, FGS Prof.
 Simpson, B., MSc *Liv*, FGS Sr. Lectr.
 Owen, T. R., MSc, FGS Sr. Lectr.
 Bloxam, T. W., BSc *Edin*, PhD *Glas*,
 FGS Sr. Lectr.
 Walmsley, V. G., BSc *Manc*, PhD, FGS Lectr.
 Kelling, G., BSc *PhD Edin*, FGS Lectr.
 Hooper, P. R., BSc *St. And*, PhD *Birm* Lectr.
 Cope, J. C. W., BSc *Brist.* Asst Lectr.
 1 Res. Fellow, 1 Demr

German

Wadson, H. M., MA *Birm.*, DrPhil *Leip.* Prof.
 Taylor, R. J., MA *Lond* Sr. Lectr.
 Popper, H., BA *PhD Brist* Lectr.

History

Williams, G., MA Prof., Hd of Dept
 Davies, A., MA (Mod. H.) Prof.
 Minchinton, W. E., BSc(Econ) *Lond.* Sr. Lectr.
 Masterman, N. C., MA *Camb* Sr. Lectr.
 Walker, D. G., BA *Brist*, DPhil *Oxon* Lectr.
 Jones, I. G., MA Lectr.
 Chamberlain, Muriel E., MA DPhil *Oxon* Lectr.
 Greenway, W., MLitt *Camb.*, BA Asst Lectr.
 Morgan, K. O., MA DPhil *Oxon.* Asst. Lectr.
 Davies, R. R., BA *Lond.* Asst. Lectr.

Mathematics, Applied

Oldroyd, J. G., MA *PhD ScD Camb.* Prof.
 Evans, G. W., MA *PhD Camb* Lectr.
 Walters, T. S., MSc Lectr.
 Wilkinson, J., MA *PhD Camb* Lectr.
 Jones, J. R., BSc *PhD* Lectr.

Mathematics, Pure

Weston, J. D., BSc(Eng) *PhD DSc Lond* Prof.
 Foulkes, H. O., DSc Sr. Lectr.
 Godwin, H. J., MA *Camb.* Sr. Lectr.
 Keogh, F. R., BSc *Manc*, PhD *Camb* Sr. Lectr.
 Zaremba, S. K., MgrPhil *Cracow*,
 DrPhil(Maths) *Vilna* Sr. Lectr.
 Petersen, G. M., MA *Stan.*, PhD *Tor* Sr. Lectr.
 Brennan, J. G., MSc Lectr.
 Linden, C. N., PhD *Camb.*, MSc Lectr.
 Evans, I. G., MSc Lectr.
 Davies, I. J., BSc *PhD* Asst Lectr.
 Baker, J. W., BSc *R'dg* Asst Lectr.
 1 Res. Fellow

Metallurgy

O'Neill, H., MMet *Sheff*, DSc *Manc.*,
 FIM Prof., Hd of Dept.
 Singer, A. R. E., BSc *PhD Birm* (Phys. M.) Prof.
 Dennison, J. P., PhD *Leeds* Sr. Lectr.
 Greenough, A. P., MA *Camb.* Lectr.
 Davies, D. E., MA *PhD Camb.*, BSc Lectr.
 Davies, P. W., BSc *PhD* Asst. Lectr.
 Wilshire, B., BSc Asst Lectr.

Philosophy

Jones, J R, DPhil <i>Oxon</i> , MA	Prof
Holland, R F., MA BPhil <i>Oxon</i>	Sr. Lectr.
Winch, P. G., BA BPhil <i>Oxon</i>	
Rhees, R, MA <i>Edin</i>	(on leave) Sr. Lectr
Plowman, D. E. G., BA <i>Oxon</i> , MA <i>Calif</i>	Lectr
Woodward, W Mary, BA PhD <i>Lond</i>	(Psychol) Lectr
Dilman, J., BA PhD <i>Camb</i>	(Psychol.) Lectr
	Temp Tutor

Physics

Llewellyn-Jones, F., MA DPhil DSc <i>Oxon</i> , FIP	Prof
Davidson, P. M., BA <i>Camb</i> , PhD <i>Lond</i>	Sr Lectr
Hopkins, M R., MSc PhD, FIP	(Metal P) Sr Lectr.
Wright, L., MSc <i>Sheff</i> , FIP	Lectr.
Giffin, L. R., MSc <i>Lond</i> .	Lectr.
Dutton, J., PhD, FIP	Lectr
Morgan, C G., MSc PhD, FIP	(Ionization P) Lectr
Miles, H T., BSc PhD	Lectr.
Thomas, K A., MA DPhil <i>Oxon</i>	Lectr.
Saunders, N H., BSc PhD <i>Leeds</i>	Lectr
George, H E., MA <i>Oxon</i> , BSc <i>Lond</i> .	
Davies, D F., MA <i>Oxon</i>	Temp Asst. Lectr
	Sr Tutor

Political Theory and Government

Rees, J. C., MA <i>Camb</i> , BSc(Econ) <i>Lond</i> .	Prof
Stacey, F A., MA <i>Camb</i> , BPhil <i>Oxon</i>	Lectr.
Lively, J F., BA <i>Camb</i>	(Govt) Lectr
Sabine, J A., BSc(Econ) <i>Lond</i>	Asst Lectr.
Argyriades, D., MSc(Econ) <i>Lond</i>	
	Temp. Asst Lectr

Social Science

Lochhead, A V S., MA <i>Oxon</i>	Dir
Walker, Muriel C., BA <i>Man.</i>	Tutor
Leaper, R. A. B., MA <i>Camb</i>	Lectr.
Rollings, P. J., BSc(Soc) <i>Lond</i> .	
	(Social Psychol) Lectr.
Drucker, D	Temp Lectr
Taylor, B K., BA <i>Rhodes</i> , MA <i>Lond</i> .	
	Temp Lectr
Rosser, K C., BA <i>Camb</i> , PhD <i>Lond</i>	
Harris, C. C., BA <i>Oxon</i> .	Sr. Res Officer
	Jr. Res. Officer

Welsh

Morgan, T J., DLitt	Prof
Bevan, T. H., MA	Sr Lectr
Evans, D E., MA	Lectr
Harries, W. G., BA	Lectr.

Zoology

Knight-Jones, E. W., DPhil <i>Oxon</i> , BSc	Prof
Macfadyen, A., MA <i>Oxon</i>	Sr Lectr
Naylor, E., BSc <i>Sheff</i> , PhD <i>Liv</i>	
	(on leave) Lectr
Makings, P., BSc PhD <i>Lond</i>	Lectr
Kemp, R F O., MA <i>Oxon</i>	
	(Genetics) Asst. Lectr
King, P E., BSc PhD <i>Hull</i>	Asst Lectr
James, B L., BSc	Asst. Lectr
1 Res. Fellow, 1 Demr	

UNIVERSITY EXTENSION

Williams, I. M., MA	
	Dir of Extra-Mural Studies
Lewis, G I., BA	Staff Tutor
Thomas, T W., BA	Staff Tutor
Williams, J E., MA	Staff Tutor
Way, B., MA <i>Camb</i> , BA	Staff Tutor

ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar A S Jeffreys, BLitt *Oxon*,
 BA Accountant: R E Hurst, DPA. Works &
 Buildings Officer J M Richards Admin
 Assts B Lloyd Davies, BA; D W Dykes,
 MA *Oxon* Halls of Residence Beck Hall, Elsie
 Griffiths, MA *Camb* (Warden), Neuadd Gilbert-
 son, J F Lively, MA *Camb* (Warden), Neuadd

Lewis Jones, Prof. G. Williams, MA (Master),
 Neuadd Sibly, Prof W Fishwick, MA PhD
Camb (Master) Careers Adviser & Student
 Welfare Officer E N Evans, BA. Asst.
 Pamela J Gilbert, BA *Lond*. Sub-Librarian
 Edith M Owen, MA *Sheff*, FLA Sec for Fac.
 & Dept of Educn R. E George, BA.

GENERAL INFORMATION

Incorporated by royal charter, dated Jan. 21,
 1920, the coll was made a constituent coll of
 the Univ of Wales by a supplemental charter
 granted to the univ. on Aug 13, 1920.

INCOME (1959-60) Total income, £570,830
 (incl. univ grant, 80.4 per cent; grants for res,
 3.2 per cent, endowments, 0.6 per cent.: fees,
 13.6 per cent.)

FACULTIES AND DEANS *Arts*, Prof R. C
 Knight (French), *sci*, Prof. H E Street (bot.)

UNIVERSITY PRECINCT The admin. offices,
 assembly hall, some common rooms and staff
 rooms are accom in a mansion in Singleton
 Park, presented, together with about 46 acres of
 land surrounding it and 15 acres for playing-fields,
 by the corporation of Swansea, which also gave

£50,000 towards the cost of sci bldgs. Extensive labs have been erected in the park on a site adjacent to the main coll bldg for the depts of metall, engin., chem, engin., chem., and phys., and also bldgs to accomm the arts depts., the library, the refectory and common rooms.

In Oct 1956 the 1st stage of the new natural scis. bldg., housing the depts. of bot., zool., geol. and geog., was opened. Clyne Castle has been extensively modernized and adapted and a large dormitory annex added, as a hall of residence to accomm 100 students.

The coll has approved a revised plan prepared by its architects for the devel of the campus which follows the traditional univ principle of courts and quadrangles, and provides for academic bldgs, hls of residence and admin. offices on the Singleton Park site. The new chem. bldg., the second stage of the nat. scis bldg. and an extension to the women's hall of residence were completed in 1960. In the autumn of 1961 3 new bldgs were ready at Singleton: a large multi-storey halls of residence each to accomm over 200 men; and a handsome and spacious coll house designed to serve as the soc. centre of the coll. community, with refectories, common rooms and other amenities. The coll. hopes to build a further halls of residence on the Singleton site in the near future. An extn to the library has been started, together with work on stage I of the new arts bldg. A bldg to house the proposed new sch. of soc. studies will be commenced in Jan 1962.

LIBRARY. 160,000 books and pamphlets

LABORATORIES. All the coll labs (bot., chem., chem. engin., engin., geog., geol., metall., phys., zool.) are well equipped and incl experimental plant for instruct and res.

ADMISSION. All students entering the coll. must be at least 17 yrs. of age and be qualified to matric. in the Univ. of Wales. (See Appendix III)

FIRST DEGREES (of Univ of Wales) (see also pp 1194-5). BA; BSc in pure sci., in engin. (mech., civil, electr.), in chem. engin., in metall. Engin. students are expected and, where necessary, helped to obtain practical experience in works during the greater part of the summer vacation. Afternoon visits to works are arranged frequently throughout the session. Occasional lectures are given by experts on business admin and managerial side of indust undertakings. Complete prelim sci course for med. students (1 yr.) and classes in law for articled clerks (1 yr pt-time).

No initial degree can be obtained without attendance upon prescribed courses in the univ. coll. extending over at least 3 academic yrs. after matric. BA with honours may be obtained in any one of the following sp. schs.: Greek, Latin, Engl., Welsh, French, German, hist., econ., philos., pure maths., appl maths., geog., and jointly in classics, French & German, mod hist & philos.; mod hist. & econ.; philos. & econ.,

mod hist & pol., philos. & pol., econ. & pol., maths.

BSc in pure sci. (pass and honours, 3 yrs) may be taken in all subjects in the fac. There are honours schs. in pure maths., appl maths., maths., phys., chem., geol., geog., bot., zool., econ., BSc in appl. sci. (pass and honours, at least 3 yrs), in engin. (mech., civil, electr.), chem. engin. and metall.

HIGHER DEGREES (of Univ. of Wales) MA, MSc, PhD, DLitt, DSc. See p 1195.

DIPLOMAS. Univ dipl. teacher's dipl. in educn., 1 yr. postgrad. Coll. dipls.: soc welfare (for overseas students), youth leadership & organization, each 1 yr.; soc. sci., 2 yrs (suitably qualified grade, may be allowed to complete the course in 1 yr.); cartography, mathl statistics & computational analysis, each 1 yr. postgrad., mathl phys., 2 yrs postgrad., chem. engin., 1 yr.; educn. of backward children, 1 yr (for practising teachers).

RESEARCH. All depts of the coll have facilities for postgrad and res. work, and the respective profs. are always prepared to advise students wishing to undertake res.

FEES. See under Univ of Wales, above.

ACADEMIC YEAR. Oct to June: 3 terms of 10½ wks. each.

ADULT EDUCATION (see also 'Teaching Staff', above). The coll has an extensive scheme of extra-mural work. The jt. tutorial classes cttee arranges for the provision of tutorial and sear. classes and univ. extension courses. The L.E.A.s and W.E.A. are represented on this cttee.

PRINCIPAL 'OPEN' AWARDS (scholarships, bursaries, grants, etc.). A number of open scholcs of annual value of £40 each are offered for competition on results of an exam held in Feb each yr.

POSTGRADUATE AWARDS open to grads of other univs. see p 808.

APPOINTMENTS BOARD. See under Univ of Wales, above.

OLD STUDENTS' ASSOCIATION. Soc. Mrs. G. P. Rees, c/o S.R.C., Univ Coll., Swansea.

STUDENT RESIDENCES. For women: Beck Hall of Residence, Gwydr Gardens, Uplands, Swansea (tel. Swansea 56320), 119 students, fee, £150 p.a. For men: Neuadd Gilbertson, Blackpill, Swansea (tel. Swansea 68189), 100 students; fee, £150 p.a. Neuadd Sibly, Neuadd Lewis Jones, 200 students each; fee, £150 p.a. A list of lodgings is kept by the careers adviser and student welfare officer.

STUDENT HEALTH SERVICE. See under Welsh National Sch. of Med., below.

STUDENTS' REPRESENTATIVE COUNCIL. Elected annually by the students, and is responsible for the social and athletic life of the students.

STUDENTS' UNION 'Maes-yr-Haf', 50 Sketty Rd., Swansea (tel Swansea 56959)

PUBLICATIONS Coll. *Prospectuses* general, appl. sci depts, dept of educn, dipl. course in

soc. sci, Beck Hall of Residence, entrance scholops. exam., mature age matric. exam., coll. *Gazette* (at beginning of each term); student publications *Dawn* (coll magazine) (Dec and June), *Craft* (student newspaper)

THE YEAR 1960

PRINCIPAL BENEFACCTIONS Donations and annual subscriptions amounting to £57,135.

MAJOR BUILDING DEVELOPMENTS. *Bldgs. completed* College House, 2 men's halls of residence (to accomm 400).

NEW CHAIR Mod hist

RETIREMENTS Prof S J. Williams (Welsh); Prof R Wilson (pure maths), J S. Caswell (mech. engin), T G Jones (extra-mural tutor)

RESIGNATIONS Prof J Kinsley (Engl.), apptd to chair of Engl, Nott.; K W Arns (Engl.), elected to fellowship at Peterhouse, Camb; Dr A D S Fowler (Engl.), elected to fellowship at Brasenose, Oxford, Dr A K Thorby (German), apptd lectr, Sussex, Dr J R Webster (educn.), apptd dir for Wales of Arts Council, T G J Jones (educn.), E G. Millward (educn.), apptd lectr in Welsh, Univ Coll of Wales, Aberystwyth, Prof B. G. Neal (civil engin.), apptd to chair of appl. sci, Imperial Coll., Lond., R H Jones (dir., soc. sci courses), apptd. principal of National Inst for Soc Work Trg in Lond., Joan E. Matthews (temp. tutor in soc sci), apptd principal lectr., nat coll for trg youth leaders, Leicester.

DEATH Emer. Prof A. E. Heath (prof of philos., 1925-52)

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1100	25
Women	318	21
Total	1418	46

Distribution by Faculties. *Arts*, 617; *sci.*, 847. Total 1464

Included in the figures above are —

Postgraduate students, 263

New admissions, 498

Students from other countries, 96 (Countries from which largest numbers came. Nigeria, 9; Iraq, 8)

DEGREES AWARDED (by Univ of Wales) (1959-1960).

Arts BA, 17, BA (hons), 68, MA, 7. *Sci* BSc, 81, BSc (hons), 142, MSc, 8; PhD, 17 Total number of first degrees awarded, 308.

DIPLOMAS AWARDED (1959-60) By Univ. of Wales: DipEd, 87 By coll: youth leadership & orgn, 15; soc. sci, 16; mathl. stats & computational analysis, 1; mathl phys., 4, soc welfare (for overseas students), 14.

CERTIFICATES AWARDED (1959-60). By Univ. of Wales Sch of Educn. teacher's cert., 8.

[Information compiled as at 20/10/61]

WELSH NATIONAL SCHOOL OF MEDICINE

Incorporated by Royal Charter 1931

Postal Address. 34 Newport Road, Cardiff, Wales

Telephone (Provost and Secretary): Cardiff 28434

PRESIDENT—SIR CLEMENT PRICE THOMAS, KCVO, LL.D, FRCP, FRCS

PROVOST—A. TREVOR JONES, MD Lond., FRCP

VICE-PROVOST—Professor A. S. DUNCAN, DSC, MB ChB Edm., FRCSEd, FRCOG

DEAN OF CLINICAL AND POSTGRADUATE STUDIES—A G WATKINS, MD *Lond*, BSc, FRCP
 HON TREASURER—SIR FREDERICK J ALBAN, CBE, LLD
 SECRETARY—F DODSWORTH, FCIS
 LIBRARIAN—ELUNED L. JONES

TEACHING STAFF

[†=Part-Time; (C)=Clinical Teacher]

(For subjects of first 3 yrs—Anat,
 etc, see Univ Coll, Cardiff)

Anæsthetics

Mushin, W W, MA *Oxon*, MB BS *Lond*,
 FFARCS Prof., Dir
 Musgrove, A H, FFARCS †(C)
 Jones, I R, FFARCS †(C)
 Roberts, Barbara C., BSc MB BCh,
 FFARCS †(C)
 Picken, D K W., BSc MB BCh, FFARCS †(C)
 Lake, R H N., MB BS *Lond*, FFARCS †(C)
 Galloon, S., MB ChB *Cape T*, FFARCS †(C)
 Thompson, P W., MB BChir *Camb*,
 FFARCS †(C)
 Rees, L., BSc MB BCh †(C)
 Mapleson, W W., BSc PhD *Durh* Res Asst.

Bacteriology, see Pathol

Child Health

Watkins, A G., MD *Lond*, BSc, FRCP Prof.
 Gray, O. P., MB ChB *Birm* Sr Lectr.
 Laurence, K M., MA *Camb*, MB ChB *Liv*
 (Pædiatric Pathol) Sr. Lectr.
 Bray, P. T., BSc MB BCh †Lectr.
 Jacobs, J., MD *Lond*. †Lectr.
 Richards, Frances M., BSc MB BCh Res. Asst

Dental Surgery

Murray, A L †(C)
 Smith, J L., LDS *Liv*. †(C)
 Brown, G. M A †(C)

Dermatology

Hodgson, G A., MBE, MA DM *Oxon* †Lectr.
 Waddington, E., MD *Lond* †(C)

Forensic Medicine and Toxicology

James, W R L., BSc MD
 (Forensic Med) Sr. Lectr.
 Payne, E. E., BSc MD (Forensic Med) Lectr.
 Graham, J D. P., BSc MD *Edm*, FRCP,
 FRFPGSglas (Toxicol) Lectr

Geriatrics

Thomas, G. F. J., DPH †(C)

Hygiene and Public Health

Lowe, C. R., MD ChB PhD DPH *Birm*
 (Prev. Med) Mansel Talbot Prof

Hitchens, R. A N., MD DPH †3r Lectr
 Bevan, R. T., MD DPH †Lectr
 Phillips, W P., OBE, DPH †Lectr.
 Lewis-Fanning, E., DSc PhD *Lond* Statistician
 Davies, Mary E Health Visitor Tutor

Medicine

Scarborough, H., MB ChB PhD *Edm*,
 FRCP, FRCPEd Prof., Dir.
 James, A H., MA DM *Oxon*, MD *Tor*
 Sr Lectr, Asst Dir
 Fourman, P., DSc MD *Lond*, FRCP Sr Lectr.
 Thomas, J. P., MD *Camb* Lectr.
 Phillips, W., MD, FRCP †(C)
 Howells, L. H., MD *Lond*, FRCP †(C)
 Jones, I. G., MD *Lond* †(C)
 Williams, D. A., MSc MD, FRCP †(C)
 Evans, B., MD *Lond*, FRCP †(C)
 Thomas, A. J., MD DPH †(C)
 Spillane, J. D., MD BSc, FRCP
 (Neurol) †Lectr
 Ball, J. D., MB BS *Lond* †(C)
 Gilson, J. C., OBE, MA MB BChir *Camb*
 †Hon Clin. Teacher

Obstetrics and Gynæcology

Duncan, A. S., DSC, MB ChB *Edm*,
 FRCSEd, FRCOG Prof
 Lawson, J. G., MD *St And* Sr Lectr
 Malphrant, R. G., MD *Lond*, FRCS,
 FRCOG †Lectr
 Evans, M. D. A., MD, FRCSEd, †Lectr
 FRCOG †Lectr
 John, A. H., MB BS *Lond*, FRCSEd Lectr
 Cummin, R. C., MB BCh †(C)
 Grant, Mrs Joyce F †Demr
 Phillips, Mrs Grace M. †Demr

Ophthalmology

Gluck, B., MA MB MCh *Dub*, FRCS^{Ed} †(C)
 Graham, M. V., MB BCh, FRCS, FRCSEd †(C)
 Graham, P. A., MB ChB *Glas*, FRCS †(C)

Oto-Rhino-Laryngology

Owen, R. D., BSc, FRCS, FRCSEd †Lectr
 Thomas, H. A., BSc MB BCh, FRCSEd †(C)
 Thomas, J. A. B., BSc MB BCh, FRCS †(C)

Pathology and Bacteriology

Gough, J., BSc MD Prof., Dir
 Thomson, S., DPH *Edm*, MD, FRCP
 (Bacteriol.) †Prof

Whiteley, H. J., BSc MD <i>Sheff.</i> (Pathol.) Sr. Lectr.	Hinde, G. de B. Bigh, A. S., MB BS <i>Lond</i> , FFR	†(C) †(C)
Leopold, J. G., MB BCh Holman, R. A., MD <i>Leeds</i> (Clin Bacteriol) Sr. Lectr.	Radiotherapy . . .	†Lectr.
Callaghan, P., BSc MB BCh Asst Bacteriologist Sr Lectr., Haematologist	Surgery Rogers, L. C., CBE, VRD, Hon. MD <i>Melb.</i> , Hon MCh <i>Dub.</i> , MSc, FRCS, FRCSed, FRACS, FACS Prof., Dir.	
Bloom, A. L., MB ChB <i>Sheff</i> Asst Haematologist	Aldus, A. S., BSc MB BS <i>Lond</i> , FRCS Sr Lectr., Asst Dir	
Dauncey, T. M., MB ChB <i>Birm</i> Blood Trans Officer	Heard, G. E., BSc MB MCh, FRCS Sr. Lectr.	
Withey, J. I., MB BS <i>Lond</i> (Clin P.) Lectr.	Ioan-Jones, D., BSc MB BCh, FRCS	†(C)
Hughes, R. T., MB BS <i>Lond</i> Asst. Lectr.	Lysaght, A. C., FRCS	†(C)
Payne, R. B., MB BCh Asst. Clin Pathologist	Foster, D. B. E., BSc MB BCh, FRCSed	†(C)
Ryder, R. C., MB BCh Res Clin. Pathologist	Wade, J. S. H., MC, FRCS	†(C)
Drummond, R. J. †Hon Clin Teacher	Jones, H. O., MB MS <i>Lond</i> , FRCS	†(C)
Keyser, J. W., PhD MSc <i>Lond</i> , FRIC (Chem P) Sr Lectr	Jenkins, D. H., BSc MB MS <i>Lond.</i> , MB BCh, FRCS	†(C)
Nethercott, S. E., BSc Asst Biochemist	Evans, D., BSc MB BCh, FRCSed (Fractures)	†(C)
Smith, S. G., BSc <i>Birm</i> Asst. Biochemist	Mogg, R. A., BSc MB MCh, FRCS	†(C)
Watkins, G. L., BSc Asst Biochemist	Lewis, E. E., FRCS	†(C)
Phillips, W. P., OBE, DPH (Vaccination & Practice of Im- munization)	Morris, D. G., BSc MB BCh, FRCSed	†(C)
Parry, T. E., MB ChB <i>Manc</i> †Instr	Langmaid, C., MB BS <i>Lond.</i> , BSc MB BCh, FRCS	†(C)
Pharmacology Landgrebe, F. W., DSc <i>Aberd.</i> Prof.	Harley, H. R. S., MB MS <i>Lond</i> , FRCS	†(C)
Graham, J. D. P., BSc MD <i>Edin.</i> , FRCP, FRFSPGlas Sr Lectr.	Thomas, D. M. E., FRCS	†(C)
Ancill, R. J., MB ChB <i>Brist</i> Lectr.	Richards, H. J., MB BS <i>Lond.</i> , FRCS	†(C)
Mitchell, G. M., MB ChB <i>Aberd</i> Lectr.	Tuberculosis and Chest Diseases Cochrane, A. L., MBE, MB BCh <i>Camb.</i> David Davies Prof.	
Tonks, R. S., PhD BPharm Lectr.	Graham, S. H., MD <i>Edin.</i> , DPH TDD	†Lectr
Physical Medicine Lloyd, K. N., MB BS <i>Lond</i> †Lectr	Marks, J., MD DipBact <i>Lond.</i>	†Lectr.
Preventive Medicine , see Hyg and Pub Health	Seal, R. M. E., BSc MB BCh	†Lectr
Psychological Medicine Spillane, J. P., BSc MD †Lectr.	Foreman, H. M., MBE, MB ChB <i>N.Z.</i>	†Lectr.
Lewis, D †(C)	Evans, D., BSc MB BCh, FRCSed	†(C)
Evans, M †(C)	Harley, H. R. S., MB MS <i>Lond.</i> , FRCS	†(C)
Radiology Hanson, E. H., TD, MB BS <i>Durh</i> , DMR <i>Lond</i> †Lectr.	Thomas, D. M. E., FRCS	†(C)
	Williams, N. V., MB ChB <i>Edin</i> , DPH <i>Lond</i>	†(C)
	West, L. R., MB BS <i>Adel.</i>	†(C)
	Gilson, J. C., OBE, MA MB BCh <i>Camb.</i> †Hon Clin. Teacher	
	Venereal Diseases Peterson, Mrs Jean, DPH <i>Aberd</i> , MD	†Asst Lectr
	Ribeiro, J.	†(C)

ADMINISTRATIVE AND OTHER STAFF

Asst Sec - E. K. Downing Univ. Student
Health Officers—Sr. Student Health Officer - G.
Grant, MB BS *Lond*; Student Health Officers

R. A. N. Hitchens, MD DPH, Edith McKnight,
BSc MB ChB DPH *Glas*; Asst. Student Health
Officer - W. H. James, MB BS *Lond*

GENERAL INFORMATION

The Welsh National Sch of Med originated in
the institution of depts in anat. and physiol at
the Univ. Coll of S Wales and Monmouthshire,
2 R

Cardiff, in 1893 On Feb 5, 1931, a royal charter
of incorporation was granted to the sch.
The various depts. of the sch are located as

follows pharmacol., prev. med.—Inst. of Prev. Med., The Parade, Cardiff; tuberculosis & chest diseases (postgrad. labs.)—Sully Hosp., nr. Penarth, Glam.; med. unit, surg. unit, inst. of pathol., anaesthetics—Royal Infirmary, Cardiff; obstet. & gynaecol.—Maternity Hospital, Cardiff; child health—Llandough Hospital, nr. Penarth, Glam.

INCOME (1959–60) Total income: £255,381 (univ. grant, 56·1 per cent; endowments, 0·8 per cent; tuition fees, 5·4 per cent; services, 37·7 per cent)

ADMISSION To be eligible for admission as a med. student every candidate must present a cert. showing that he has satisfied the requirements for matric. in the Univ. of Wales (see Appendix III). The course for the degrees of MB BCh consists of 3 parts: pre-med (3 academic terms), which can be taken in any of the four constituent colls. of the Univ. of Wales; pre-clin (6 terms), taken in the Univ. Coll. of S. Wales and Monmouthshire, Cardiff, clin. (33 mos.), taken in the Welsh Natl. Sch. of Med. No candidate will normally be accepted for admission to the 2nd yr. of the med. course unless he has obtained approved passes in chem., phys. and biol. or zool. in an exam. for the G.C.E. at advanced or scholarship level, or in another exam. deemed adequate by the admitting authority.

LIBRARIES The main libr., which is situated at the med. sch. house, Howard Place, Cardiff, consists of a lending and reference libr., with seating accomm. for 122 readers. The libr. of the Cardiff Med. Soc. is also housed there. Dept. libr. at the following depts.: anaesthetics, child health, med. unit, obstet. & gynaecol., pathol., pharmacol., prev. med., surg. unit, tuberculosis. Total stock of main, dept., and Cardiff Med. Soc. libr.: bound periodicals and texts, 15,641; pamphlets, 2366. Spec. collection Lloyd-Roberts collection of 17th- and 18th-cent. texts.

TEACHING HOSPITALS United Cardiff Hosps. (Cardiff Royal Infirmary and Maternity H., Llandough H. Other clin. instns.: St. David's H.; Whitchurch H., Lansdowne (Isolation) H.; Prince of Wales' (Orthopaedic) H., Rhydylafar, Cefn Mably and Glan Ely (Tuberculosis) and Sully (Chest Diseases) Hosps.).

FIRST DEGREES (of Univ. of Wales) (See also 'Admission', above) 5 yrs. 2 terms—MB BCh.

While the courses of instructn. are designed to meet the regns. for the degrees in med. and surg. of the Univ. of Wales, they are also recog. as satisfying the external regns. for the MB BS degrees of the Univ. of London and the regns. of other univs.

HIGHER DEGREES (of Univ. of Wales). MD, MCh, PhD. See p. 1195.

DIPLOMAS. *Univ. dipls.* (see also p. 1198) DPH, 18 mos. pt-time, DTCD (tuberculosis & chest diseases), 6 mos.

OTHER COURSES. Course of instructn. for health visitors (9 months) leading to cert. of Royal Soc. of Health.

FEES See under Univ. of Wales, above

POSTGRADUATE AWARDS open to grads. of other univs. see p. 808

REFECTORY AND RESIDENCES (warden W. A. Lewis). The refectory and residences are combined. There is accomm. for about 67 residents—£100–£120 p. a part board (incl. vacation term).

STUDENT HEALTH SERVICE The univ. has establd. a student health dept. which is accomm. in the med. sch. house. The med. officers conduct exams. of all students of the Univ. of Wales free of cost and are also available for free consultation and advice.

MEDICAL STUDENTS' CLUB Med. students of all yrs., whether in the Univ. Coll. of South Wales and Monmouthshire, Cardiff, or in the Welsh National Sch. of Med., become members of the med. students' club and of the students' union soc. of the Univ. Coll., Cardiff.

The student organizations provide numerous soc. functions as well as facilities for rugby and assocn. football, hockey, tennis, cricket, squash and swimming.

The med. students' club includes a scientific soc. which arranges lectures, demonstrations and discussions on med. and cognate subjects.

TERMS (1961–62), Oct. 3–Dec. 15, Jan. 9–March 23, April 25–June 29

PUBLICATIONS *Prospectus and Regulations* (free). Students' mag., *The Leech*, 2s., twice a yr.

THE YEAR 1960

RETIREMENTS. R. J. Parry (ophthalmol.).

RESIGNATIONS Prof. F. Grundy (prev. med.), apptd. asst. dir.-gen., WHO, Geneva; J. H. Jones (blood transfusion officer), apptd. consultant pathologist to Newport & E. Mon. H.M.C.; L. P. Thomas (surg.), apptd. consultant surgeon to Newport & E. Mon. H.M.C.; S. Shuster (med.), apptd. sr. lectr. in dermatol.,

Inst. of Dermatol., Lond.; S. G. Mallen (asst. biochemist), apptd. res. asst., M.R.C. unit, Radcliffe Infirmary, Oxford.

DEATHS. Prof. L. Rogers (prof. of surg., dir. of surgical unit); Emer. Prof. A. M. Kennedy (former prof. of med. & dir. of med. unit); Dr. G. C. D. Evans (lectr. in radiotherapy); R. J. Ingham (former biochemist in med. unit).

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	93	47
Women .	66	6
Total	159	53

Distribution by Faculties. *Med*, 212.

Included in the figures above are .—

Postgraduate students, 34

New admissions, 40.

Students from other countries, 38 (Countries from which largest numbers came: India, 9; Iraq, 4; Pakistan, 4).

DEGREES AWARDED (by Univ of Wales) (1959-1960): MB BCh, 45, MD, 2, PhD, 2, MPharm, 1

DIPLOMAS, ETC. (1959-60). DTCD, 17; DPH, 10, LRCP, MRCS, 5.

CERTIFICATES (1959-60) Health visitors, 15

ST. DAVID'S COLLEGE, LAMPETER

Founded 1822

Postal Address · Lampeter, Cardiganshire, Wales

Telephone · Lampeter 42

VISITOR—THE LORD BISHOP OF ST DAVID'S

PRINCIPAL—Rev Canon J R LLOYD THOMAS, MA Oxon

BURSAR— . .

SUB-LIBRARIAN—R C RIDER, MA Camb., FLA

TEACHING STAFF

Classics		Mathematics	
Harris, H A, MA Oxon	Prof.	Morton, V C, MA Camb	Lectr.
Newte, F, R, MA Oxon	Lectr	Renowden, Mrs Ruth C M, MA Camb	Lectr.
Barton, I M, MA Camb	Lectr		
· .	Asst Lectr	Pastoral Theology	
		Wood, Rev. T, MA BD Leeds D J James Prof	
English		Philosophy	
Boorman, S C, MA Lond	Prof	· . .	Prof
Sambrook, A J, MA Oxon, PhD Nott.	Lectr	Renowden, Rev C. R, MA Oxon, BA	Lectr., Hd. of Dept.
Ogden, J, BA Durh.	Asst. Lectr.	Burke, T E, B, BA PhD Dub	Lectr.
French		Theology and Hebrew	
· . .	Prof.	Hunt, Rev E. W, MA Durh, BD Birm,	Prof.
Jones, R. S, MA Wales, PhD Lond.	Lectr., Hd of Dept.	BLitt Oxon	
Anderson, Elizabeth R., MA PhD Edm.	Lectr	Morris, Rev F. M K, MA Oxon (Theol)	Lectr.
		Macdonald, Rev. J, MA BLitt Oxon.	Lectr
History		Welsh	
· . .	Prof.	· .	Prof
David, Rev. F J T, MA Oxon, BA	Lectr	Marks, Rev D F., BA Wales, MA Oxon	Lectr., Hd of Dept.
Jones, G D, BA Wales	Asst. Lectr	Evans, D. S., MA BD Wales, BLitt Oxon.	Lectr
Jones, T, BA Camb	Asst. Lectr.		

GENERAL INFORMATION

Incorporated by royal charter (1829), the coll confers degrees in arts (BA) and theol (BA, BD and LTh) and a dipl in theol. Originally founded to provide a residential univ for men preparing for holy orders, its arts fac. was recognized by royal charters (1865 and 1896) as open to all students without religious test

INCOME (1959-60) Total income £53,000 (no grants).

LIBRARY 50,000 vols.

COLLEGE PRECINCT. The main coll bldg, comprising chapel, dining-hall, library and students' rooms on the staircase pattern, is set round a quadrangle and is now scheduled as a historic bldg. The campus of 14 acres also in-

cludes the Canterbury bldg (students' hostel and lecture rooms), an assembly hall and lecture room block, and lies off the main street of the assize and market town of Lampeter. There are 3 small hostels in the town, including Burgess hall (*see below*). Under a bldg programme a block of students' rooms, a new library and new dining-hall and kitchens are planned

ASSOCIATED INSTITUTION Bishop Thomas Burgess theological hall (1940) (Anglican).

ADMISSION Students over 17 yrs are admitted to BA courses (1) on the cert. of a matric. exam of a univ. recognized by the Assocn of Univs. of the British Commonwealth, (2) on the General Cert of Educn. of any of the recognized British

examining bodies, provided that the cert. contains at least 5 subj., 2 of which have been passed at advanced level, and incl (i) Engl. lang or Welsh lang; (ii) an addnl lang other than that selected under (i); (iii) maths or an approved sci. subj. Grads. only are admitted to the BD and LTh. Admission to the dipl. course in theol. is by 5 subj. at the ordinary level of the G.C.E., which must incl. Engl. lang or Welsh lang.

FIRST DEGREES. BA of St. David's Coll., Lampeter (9 terms' residence required). Candidates may proceed for further and higher degrees to all British univs. BA degree fully recognized for all Burnham cttees' awards to grads.

HIGHER DEGREES. Grads of St. David's Coll. may proceed to the BD and are required to establish 10 terms' residence. Grads of other univs are admitted to the BD course and are required to establish 10 terms' full-time residence.

LICENCE IN THEOLOGY. Open to grads., requires 6 terms' full-time residence.

DIPLOMA IN THEOLOGY. Full-time residence required (2 yrs. for grads., 3 yrs. for non-grads.). If taken as a member of Burgess theol. hall the dipl. confers exemption from the general ordination exam.

SCHOLARSHIPS. Numerous scholps out of trust funds offered for competition at entrance, and after 1 or more yrs' residence other scholps and prizes are awarded. Postgrad studentships given to men proceeding to other univs. (Details in coll. *Memoranda* obtainable from principal).

FEES. Composite fee for tuition, etc., £60 per

session; bd. and lodging, £159 per session. Students live in coll. rooms or in licensed lodgings provided by the coll. and both are covered by the board and lodging fee. J.C.R. dues, £6 per session.

STUDENT ATHLETIC FACILITIES. The coll. provides playing-grounds for most field sports, and all sports clubs and socs. are organized by the J.C.R.

PUBLICATIONS. Coll. *Memoranda* and *Syllabuses* (obtainable from principal).

NEW DEVELOPMENTS. In July 1961 St. David's Coll. was admitted to the list of univ. colls. recognized by the Univ. Grants Cttee. for Treasury grants, under a sponsorship scheme jointly agreed between the Univ. Grants Cttee., the Univ. Coll. of South Wales and Monmouthshire, Cardiff, and St. David's Coll. Under this agreement St. David's Coll. has accepted the matric. regns. of the Univ. of Wales, and in 1962-63 will bring its BA degree structure and syllabuses into line with those of the Univ. Coll., Cardiff; and the Univ. Coll., Cardiff, has undertaken to provide help in teaching in specialist subsjs. From 1962 to 63 St. David's Coll. will conduct its own BA degree exams through a system of internal and external examiners, and the present external bd. of examiners appointed by Oxford and Cambridge will continue for the BD degree only. The sponsorship scheme will operate for ten yrs., and during this time the places for arts students will be increased to 250. The teaching staff will be further increased as the no. of students increases.

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	199	—
Women	—	—
Total	199	—

Distribution by Faculties: Arts, 174; theol. (postgrad), 6; theol. dipl., 9; sp. courses (theol.), 10. Total 199.

Included in the figures above are:—

New admissions, 61 (arts, 47; theol., 14).
Students from other countries, 12 (Country from which largest number came: Nigeria, 10).

DEGREES AWARDED (1959-60) Arts BA, 19; BA (hons.), 9. Total number of first degrees awarded, 28.

SCOTLAND

[Information compiled as at 11/9/61]

UNIVERSITY OF ABERDEEN*

Founded 1494

Postal Address : Aberdeen, Scotland

Telegrams : Aberdeen University

Telephone (Secretary's Office) : Aberdeen 24367

CHANCELLOR—The Rt Hon T. JOHNSTON, CH, Hon. LLD *Glas. & Aberd*

VICE-CHANCELLOR AND PRINCIPAL—Sir THOMAS M TAYLOR, CBE, QC, Hon DD *Edn*, Hon. LLD *St And. & Glas.*, MA LLB

RECTOR—P. M. SCOTT, CBE, DSC, MA *Camb*

VICE-PRINCIPAL—(for period 1961-64) Professor E M WRIGHT, BA *Lond.*, MA DPhil *Oxon*

SECRETARY TO THE UNIVERSITY—W. S. ANGUS, MA *Oxon*, LLB *Liv.*

LIBRARIAN, CLERK AND REGISTRAR OF GENERAL COUNCIL—W. D. SIMPSON, OBE, MA DLitt Hon. LLD, FSA

TEACHING STAFF

[†=Part-Time]

Accounting

Finnie, A. S., MA, CA (CA Course) †Lectr.
Grant, J. P., BL, CA (Law Course) †Lectr.

Biblical Study, see also Divinity

Lillie, Rev. W., BD *Glas*, MA Hon. DD Lectr.
Ward, Elizabeth M., BA *Sheff.* Asst.

Agriculture, see below

Anæsthetics, see Medicine

Anatomy

Lockhart, R. D., MD *Birm*, ChM Regius Prof
Hamilton, G. F., JP, BSc MB ChB
(on leave) Sr. Lectr.

Mackenzie, J., MD Sr. Lectr.

Dickson, A. D., MA *Camb*, MD *Belf.* Lectr

Whyte, A. G. D., CBE, MA MB ChB, FRCSEd Lectr

Armstrong, W. L., BM *Oxon* Lectr

Davidson, A. I. G., MB ChB Lectr.

Gordon, R. L., MB ChB Lectr

Greig, J. R., MB ChB Lectr

Robertson, G. S., MB ChB Lectr

Turner, W. R. C., MB ChB Lectr

Hunter, Isobel N. Radiol Demr.

Biological Chemistry

Kermack, W. O., Hon. LLD *St. And.*, MA DSc, FRS, FRIC MacLeod-Smith Prof.

Robertson, H. A., BSc PhD *Edn*, FRIC

Porteous, J. W., BSc PhD *Liv* Sr. Lectr.

Grant, P. T., PhD *Lond*, BSc Sr. Lectr.

Simkin, J. L., BSc *Liv*, PhD *Birm.* Lectr.

Burke, D. C., BSc PhD *Birm.* Lectr.

Robb, G. M. M., MB ChB Lectr.

Fothergill, J. E., BSc PhD *Brist* Sr. Res. Fellow

Skinner, E. R., BSc *Birm.*, PhD *Lond.*

Bowman, I. B. R., BSc PhD Sr. Res. Fellow

McDonald, Janetta, PhD *Edn*, BSc Sr. Res. Fellow

Pike, Mrs. Patricia Jr. Res. Fellow

Stansfield, D. A., BSc PhD *Wales* Asst.

Astronomy

Lectr

Biology, see Nat. Hist.

Botany

Weatherley, P. E., MA DPhil *Oxon* Regius Prof

Bacteriology, see Medicine

* Member of the Association of Universities of the British Commonwealth

Faulks, P. J., *MA Camb.*
Grimingham, C. H., *BA Camb.*, PhD
Stirling, J., DSc *St. And.*
Burns, D. W., BSc PhD *St. And.*
Cusick, F., MSc PhD *Mane.*
Hadley, G., BSc PhD *Burm.*
Pritchard, N. M., MA DPhil *Oxon*
Bowling, D. J. F., BSc *Nott.*, PhD
Sommerville, Mrs. Alice H., MA BSc
Palmer, Anne, BSc *Lond.*

Sr. Lectr
Sr. Lectr
Lectr.
Lectr.
Lectr.
Lectr.
Asst.
Asst.
Res. Asst

Dental Surgery, see Medicine

Divinity, see below

Economics, see Pol. Econ.

Education

Nisbet, J. D., MA BEd *Edin.*, PhD, FBPsS Lectr.
Gamfue, A. J., MA EdB Asst.

Engineering

Allen, J., DSc *Mane.*, MICE Jackson Prof.
Grassie, J. C., BSc(Eng) *Glas.*, DSc Reader
Hampson, H., MScTech *Mane.*,
MIMechE Reader
Wilkinson, E., BEng PhD *Liv.*, MIEE Reader
Taylor, G. A., MA BSc(Eng) PhD, MICE

Smith, R. G., BSc *Edin.* Sr. Lectr.
Imrie, K. C., MSc *Mane.* Lectr.
Fair, E. J., BSc(Eng) *Glas.* Lectr.
Matthew, G. D., BSc(Eng) Lectr.
Coull, A., BSc(Eng) PhD Lectr.
Ogston, W. M., MA *Oxon*, MS *Calif* Lectr.
Eaile, J. C., BSc(Eng) *Lond.* Lectr.
Turton, J. S., MSc *Lond.* Lectr.

Hardie, A. M., MA BSc(Eng) PhD,
MIEE †Lectr.

Owens, W. L., BSc *Wash.*, MSc *Calif.* Sr Res Fellow

Hendrie, R. A., BSc(Eng) *Lond.*,
MIMechE †Asst.

Corry, J. M., BSc(Eng) *Lond.* †Asst.

Colmar, G. C., BSc(Eng) *Glas.* †Asst.

Dorward, L. F., BSc(Eng) *Lond.* †Asst.

Levy, N. M., BSc *Edin.* †Asst.

English, see also Scottish Lang

Duthie, G. I., MA PhD DLitt *Edin.*,
FRSCan Regus (Chalmers) Prof
Lothian, J. M., MA *Glas.* & *Sask* Reader
Evans, M., BA PhD *Camb.* Sr. Lectr.
Keir, W. A. S., BLitt *Oxon.* MA Lectr.
Thomson, Mrs. Patricia, PhD *Camb.*, MA Lectr.
Miche, J. A., BA *Oxon.*, MA DLitt Lectr.
Blench, J. W., MA PhD *Camb.* Lectr.
Hargreaves, H., MA *Liv.* Lectr.
Anderson, Mrs. Cecily, MA BLitt *Oxon.* Lectr.
Bellringer, A. W., MA *Glas.* Asst.
Lindsay, D. W. M., MA *Edin.* Asst.
Graham, G. K., MA *Glas.* Asst.
Sandison, A. G., MA Asst.

Fisheries and Oceanography, see p. 1228

Forestry

Steven, H. M., CBE, MA *Oxon.*, BSc
PhD *Edin.* Prof
McNeill, W. M., MBE, TD, MA DipFor
Oxon., MS *Yale* Sr. Lectr.
Murray, J. S., BSc(For) Sr. Lectr

U.K.—SCOTLAND

Celtic

Thomson, D. S., BA *Camb.*, MA
Mackenzie, Annie M., MA PhD

Reader
Lectr

Chemistry

Burnett, G. M., DSc *Bim.*, BSc PhD Prof
Strathdee, R. B., OBE, TD, PhD *Camb.*,
MA BSc, FRIC Reader
Thomson, R. H., DSc PhD *Leeds*, FRIC

Sr Lectr.
Sr Lectr
Sr Lectr
Lectr

Moser, W., BSc *Lond.*
Meares, P., MA PhD *Camb.*, DSc
Taylor, H. F. W., PhD DSc *Lond.*
Humphries, J. B., BA *Lond.* & *Camb.*,
MSc *Wales*, PhD *Lond.*, DSc

(retires Sept 1962) Lectr

McKean, D. C., MA DPhil *Oxon* Lectr

Chalmers, R. A., BSc *Mane.*, PhD *Edin.* Lectr

Hogg, D. R., BSc PhD *Lond.* Lectr

Musgrave, O. C., BSc PhD *Lond.* Lectr

Bryce, W. A. J., PhD *Edin.* Lectr

Wilkie, K. C. B., BSc PhD *Edin.* Lectr

Binks, J. H., BSc PhD *Lond.* Lectr

Glasser, F. P., BA *Conn.*, PhD *Penn.* Lectr

Gard, J. A., BSc *Durh.*, PhD Res Lectr

Glasser, Mrs. Lesley D., BA *Camb.*, PhD Sr. Res Fellow

Wells, J. W., MSc *Q'ld* Sr. Res. Fellow

Tennant, G., BSc *Glas.* Sr. Res. Fellow

Smith, J., BSc PhD Asst

Ball, D. F., BSc *Sheff* Asst

Morris, Shirley J., BSc *Lond.* Asst.

Hay, J. N., BSc PhD *Glas.* Asst.

Thomson, Dorothy A., BSc Asst

Simpson, D. Analyst

Tutorial Student

Chemistry, Biological, see Biol. Chem

Chemistry, Clinical, see Medicine

Child Health, see Medicine

Church History, see Divinity

Classics, see Greek and Humanity

Comparative and Constitutional Law,
see Law

Crop Physiology, see p. 1228

- Davis, P. W., MC, BA DipFol Camb Lectr.
 Crooke, M., BSc(For) Edin, PhD Lectr.
 Low, A. J., BSc(For) Asst.
 Rook, D. A., BSc(For) Asst.
 Grant, G. C., BScF Tor, BSc(Fol) Asst. Investigator
- French**
 Diverres, A. H., MA Wales, LèS L. Rennes, DU Paris • Prof.
 Abrioux, O. M., LèS L. Paris, PhD Sr Lectr.
 Brown, A. W., MA PhD Edin Lectr.
 Lawrenson, T. E., MA DipEd PhD Manc. Lectr.
 Lockerbie, S. I. J., MA PhD Edin Lectr.
 Blakey, B., MA PhD Manc Lectr.
 Garnham, B. G., MA Manc Asst.
 Abrioux, Mme Renée, LèS L. Rennes (until May 1962) †Asst.
 le Tohic, Jacqueline (until May 1962) †Asst.
- Geography**
 O'Dell, A. C., MSc Lond Prof.
 Walton, K., MA Edin., PhD Sr Lectr.
 Mellor, R. E. H., BA Manc Lectr.
 Coull, J. R., MA Lectr.
 Hamilton, P., BA R'dg. Lectr.
 Small, A., MA Asst.
 Barnett, Mrs Muriel J. F., MA Edin. Cartographer
- Geology and Mineralogy**
 Phemister, T. C., DSc Glas, PhD Camb., MSc Chic, DU Rennes Kilgour Prof.
 Pringle, A. K., BSc Glas., FGS Sr Lectr.
 Fraser, W. E., MA BSc PhD, FGS Lectr.
 Tocher, F. E., BSc PhD Lectr.
 Munro, M., BSc PhD St And Lectr.
 Downie, G., BSc Lectr.
 Tait, E. A., BSc Lectr.
 Welsh, W., BSc St. And Asst.
- German**
 Witte, W., MA Lond, DrRerPol Bres., PhD Prof.
 Barber, C. C., MA Oxon., DPhil Gießen Sr. Lectr.
 Kenworthy, B. J., BA Brist., PhD Lectr.
 Fowler, F. M., MA Asst.
 Bantelle, Gertraud (until May 1962) †Asst.
- Greek**
 Cameron, A., BA Oxon., MA Glas. Regius Prof.
 Thomson, H., MA Oxon Temp. Lectr.
- Greek Art and Archaeology**
 Ashmole, B., CBE, MC, MA BLitt Oxon., FBA †Geddes-Harrower Prof.
- Hebrew**, see Divinity, below
- History**
 Sayles, G. O., MA DLitt Glas., FRHistS
 Burnett-Fletcher Prof.
- Humphries, W. R., MA Sr Lectr.
 Henderson, J. M., TD, MA Edin., FRHistS Sr. Lectr.
 Edwards, Kathleen, MA Lond, PhD Manc, FRHistS, FSA Sr Lectr.
 Hargreaves, J. D., MA Manc Lectr.
 Milne, Doreen J., MA Glas, PhD Lond Lectr.
 Haffenden, P. S., BA PhD Lond. Lectr.
 Macfarlane, L. J., BA PhD Lond Lectr.
 .. Asst.
- History and Philosophy of Science**
 Wightman, W. P. D., MSc PhD Lond Reader
- History, Economic**, see Pol Econ
- Humanity**
 Watt, W. S., MA Glas & Oxon Regius Prof.
 Raven, E. J. P., MA Camb. Sr. Lectr.
 Reece, D. W., MA Oxon. Lectr.
 Corbett, P. B., MA Sheff., DrPhil & Lett Louvain Lectr.
 Edwards, G. P., MA Camb. Lectr.
 Pearce, T. E. V., BA Oxon. Asst.
 .. †Asst.
- Italian**
 Brown, P. M., BA Oxon. Lectr.
 Minio-Paluello, M.-L. (until May 1962) Asst.
- Latin**, see Humanity
- Law**, see below
- Logic**
 Cross, R. C., MA Glas & Oxon. Regius Prof.
 Bednarowski, W., DPhil Cracow Sr. Lectr.
 Bird, G. H., MA Oxon Lectr.
 Pinkerton, R. J., BA Syd. Asst.
- Mathematics**
 Wright, E. M., BA Lond., MA DPhil Oxon Prof.
 Potter, H. S. A., MA DPhil Oxon Reader
 Patterson, E. M., BSc PhD Leeds Sr. Lectr.
 Ponting, F. W., MA Oxon, PhD Sr. Lectr.
 .. Sr. Lectr.
 White, A. J., MSc Lond Lectr.
 Nash-Williams, C. J. A., MA PhD Camb. Lectr.
 Robertson, M. M., BSc Lond, MA Ph2 (on leave) Lectr.
 Morrison, E. E., MA Lectr.
 Bostock, F. A., MSc Nott Lectr.
 Hooley, J., BSc Lond., MSc Letc Lectr.
 .. Lectr.
 .. Lectr.
 Phillips, G. M., MA Asst.
 Wilson, D. M., MA Asst.
- Medicine**, see below
- Mental Health**, see Medicine, below

Moral Philosophy

Wernham, A G., BA *Oxon*, MA Regius Prof.
Bednarowski, W, DPhil *Cracow*
(also Logic) Sr Lectr.
Duthie, G D., MA BPhil *Oxon*,
PhD *Camb* Lectr
Fowle, I. M., MA *St. And*, BA *Camb*, Lectr
Pinkerton, R. J., BA *Syd* (also Logic) Asst

Music

Barrett-Ayræ, R, BMus *Edn* Lectr
Dodd, R H, MA BMus *Oxon* Lectr
Kemp, I. M., MA *Camb* Asst.
McCloy, J., BMus PhD *Belf* Asst.

Natural History

Wynne-Edwards, V C, MA *Oxon*,
FRSCan Regius Prof
Neill, R M, MC, MA *Glas*, DSc Reader
Begg, C M M., PhD *Birm*, MA BSc Lectr
Short, J R T, BSc *W Aust*, DPhil
Oxon, DSc Lectr
Orkin, P. A., BSc *McG*, PhD Lectr
Symmons, Seida, BSc *Leeds*, PhD Lectr
Dunnet, G M., BSc PhD Lectr
Gauld, D. T., BSc PhD *Edn* Lectr
Holliday, F G T, BSc *Sheff* Lectr
de Kock, Mrs Ludovika L, MA *Oxon*,
PhD Res. Lectr
Crombie, I L, BSc *Glas*. Asst
Anderson, A., BSc Res Asst

Natural Philosophy

Jones, R V, CB, CBE, MA DPhil *Oxon*,
FIP Prof
Griffith, H D, BA *Camb* Reader
Strachan, C, PhD *Camb*, MA *Camb.* &
Aberd Sr Lectr.
Holbourn, A H S., MA *Edn*,
DPhil *Oxon* Sr Lectr
Buchanan, T J, MA *Glas*, PhD *Lond*,
FIP Sr Lectr.
Richards, J C S., BSc PhD Sr Lectr
Lindsay, D D, MA *Oxon*, FIP Lectr
Stevenson, R W H, BA *Oxon*, PhD Lectr
Finlayson, D M, BSc PhD *St. And* Lectr
Jones, D A., BSc *Wales*, PhD Lectr
Duncanson, A., BSc *Edn* Lectr
Ansbacher, F, BSc PhD *Lond* Lectr
Elcock, E W., BSc PhD *Leeds* Lectr
McCombie, C W, MA PhD Lectr
Smith, T., BSc PhD *Leeds* Lectr
Davidson, S., BSc PhD Lectr
Binnie, W P, BSc PhD *Glas* Lectr
Moore, R D, BSc *Durh* Lectr
Stewart, J D., MA PhD †Lectr
Gill, T P, MSc *Melb* Sr Res Fellow
Tahir-Kheli, R. A., BSc *Pesh* Sr Res Fellow
Findlay, D., BSc Asst
Pollard, J. H., BSc *Brist*. Asst.
Gray, P., BSc *Lond* Asst.

2 R 2

Mutch, H., MA †Asst.
McIntosh, J. A R, BSc Res. Asst
Angus, Margaret G, BSc Res Asst
Gardner, A Res Asst
5 Lectureships vacant

Oceanography, see p 1228

Philosophy, see Logic and Moral Philos.

Physics, see Nat. Philos.

Physiology

Malcolm, J L, BMedSc MB ChB *N.Z.*
Regius Prof
Kosterlitz, H. W., MD *Berl*, PhD DSc Reader
Taylor, D W, MD Lectr.
Mathews, B F, BSc MB ChB *Leeds* Lectr
Gelman, Mrs. Joan E, MD *St And* Lectr
Goldsmith, M W, BSc(Agr) *R'dg.*,
BSc *Lond* Lectr.
Scott, Mary J., BSc PhD *Lond* Lectr
Hyttén, F E, MB BS *Syd*, PhD †Lectr
German, G A, MB ChB Sr Res Fellow
Robertson, Mrs Florence M, BSc
PhD *Edin* Jr. Res. Fellow
Herrington, R. M., MB ChB *Birm*,
DPM Hon Res Fellow
Gundu Rao, H. V., MSc *Bangalore*
Hon Res. Fellow

Physiology of Nutrition, see p 1228

Political Economy

Hamilton, H, MA DLatt *Glas* Jaffrey Prof.
Macdonald, Annie, MA
(retires Sept 1962) Sr Lectr.
Alexander, K. J. W., BSc(Econ) *Lond* Lectr.
Houghton, R W, MSc(Econ) *Lond*. Lectr.
Gray, M, MA Lectr.
Richardson, H. W, BA *Mane* Asst.
Welham, P. J., BA(Econ) *Leeds* Asst.
Wright, Mrs Elizabeth L, BL *Edn*. Res. Asst.

Politics

Frankel, J, ML *Lwow*, LL.M. *W. Aust*,
PhD *Lond* Lectr
Finnegan, Margaret, BSc *Lond* Lectr.
Ogley, R C., BA *Oxon* Lectr

Psychology

Knight, A R, BA *Syd*, MA *Camb*, FBPsS
Anderson Prof.
Reid, R. L., MA *Edn* Sr Lectr.
Fraser, Elizabeth D, MA EdB PhD Lectr
Symons, J R., BA PhD *R'dg.* Lectr.
Bursall, A E., BA *R'dg* Lectr.
Knight, Mrs. Margaret K., MA *Camb* †Lectr
Shepherd, J W., BSc *Lond* Asst.

Scottish Arts and Crafts

Davidson, G Sr. Res. Fellow

Scottish Language

- Murison, D. D., BA *Camb*, MA †Lectr.
 Collie, Joyce P., MA PhD Hon. Res. Fellow
 Todd, W. Annette, MA DipEd *Glas.* Hon. Res. Fellow

Soil Science, see also p. 1228

- Tinsley, J., BSc PhD *R'dg.*, FRIC Reader
 Coutts, J. R. H., MSc *Lond.*, DSc *S A*, FIP Lectr.
 Fitzpatrick, E. A., PhD Lectr.
 Parsons, J. W., BSc PhD *R'dg* Lectr.
 Hance, R. J., BSc *R'dg*, PhD Jr Res Fellow

Spanish

- May, T. E., MA *Manc.* Sr. Lectr.
 Dunn, P. N., MA *Lond* Lectr.
 Albrhans, C †Asst.

Statistics

- Finney, D. J., MA *Camb* & *Oxon*, ScD *Camb*, FRS Reader
 Brass, W., MA *Edin.* (on leave) Lectr.
 Fisk, P. R., BSc(Econ) *Lond* Lectr.
 Cormack, R. M., BSc *Lond*, BA *Camb.*, PhD Lectr.
 Kilpatrick, S. J., MSc PhD *Belf* Lectr.
 Gray, Mrs Barbara, BSc *Lond* †Jr Res Fellow
 Pike, M. C., BSc *Rand*, DipMathStats *Camb* Asst

Surgery, see Medicine, below**Swedish**

- Ljunggren, N. G., FilMag *Lund* Lectr.
 Svegborn, J. H. Asst

Theology, see Divinity, below**Zoology**, see Nat Hist**AGRICULTURE**

(see also N. of Scotland Coll of Agric, below)

- Raeburn, J. R., BSc(Agr) *Edn*, MS PhD *Corn*, MA *Oxon* Strathcona-Fordyce Prof.
 Fraser, A. H. H., MD DSc Sr. Lectr.
 Dempster, D. G., BSc BSc(Agr) Sr. Lectr.
 Smith, J. H., MSc *Wales* Sr. Lectr.
 Grant, J. C. Lectr.
 Dutta, B. P. †Lectr.
 Barlow, C., BSc *Lond.*, MS *Corn* Hon. Res Fellow
 Blair, R., BSc(Agr) *Glas*, PhD Asst.
 English, P. R., BSc(Agr) Asst.
 Bain, R., BSc(Agr) *Glas.* †Asst.
 Dodsworth, T. L., BSc(Agr) *Leeds*, PhD †Asst.
 Shiach, J. G., BSc(Agr) BSc(Eng) †Asst.

DIVINITY

- Biblical Criticism**, see also Biblical Study, above
 Hunter, Rev A. M., MA BD PhD Hon. DD *Glas*, DPhil *Oxon* Prof.
 Alexander, Rev. J. N. S., MA BD *Glas.*, STM N.Y. Lectr.
Christian Dogmatics
 Reid, Rev. J. K. S., MA BD Hon DD *Edin* Prof.
Church History
 McEwen, Rev. J. S., MA BD Hon. DD *Edin* Prof.
Hebrew
 Kennedy, Rev. A. C., MA BD Hon DD *Edin* (retires Sept. 1962) Regius Prof.
 Gray, Rev. J., MA BCL PhD *Edin* Lectr.

Systematic Theology

- Graham, Rev. J. M., CBE, JP, MA Hon. DD *Glas* Prof.
 Cairns, Rev. D., MA *Oxon.*, Hon DD *Edin* †Lectr.

LAW

- Comparative Law (including Private International Law)**
 Willock, I. D., MA LLB Sr. Lectr.
Conveyancing
 MacRitchie, F., MA LLB Hugh McLennan Prof.
 Gillan, J. T. C., MA LLB †Asst.
Evidence and Procedure
 Hay, A. L., MA LLB †Lectr.

Jurisprudence (including Roman Law)

- Stein, P. G., MA LLB *Camb*, PhD Prof.
 Willock, I. D., MA LLB (also Compar Law) Sr. Lectr.
 Baker, C. D., BA BCL *Oxon* Lectr.

Mercantile Law (including Administrative Law)

- Craig, J. T., MA LLB *Glas*, BSc(Econ) *Lond* Sr. Lectr.

Public Law (including Constitutional Law; Scottish Legal History; Public International Law)

- MacGibbon, I. C., MA LLB *Edn*, PhD *Camb* Sr. Lectr.
 Park, I. M. S., MA LLB †Asst.

Scots Law

Ireland, R. D., MA *Oxon.*, LLB *Edm.* Prof
Niven, A. F., MA LLB Lectr
Mince, A., OBE, TD, BL †Lectr
..... †Asst

MEDICINE

(for subjects of first 2 years—Anat., etc., see above)

Anæsthetics

Rollason, W. N., MB ChB *Birm.*, FFARCS †Lectr

Bacteriology

Macdonald, A., MA MD Prof
McEntegart, M. G., MD *Liv.* Sr. Lectr.
Paton, A. M., BSc PhD *Edin* Sr. Lectr.
Postlethwaite, R., BSc MD *Manch* Sr. Lectr.
Menzies, R. F., MB ChB Lectr.
Smylie, H. G., MD Lectr.
Bell, T. M., BSc *Glas* Lectr.
Turner, Grace C., MB ChB Lectr.
Ross, P. W., MB ChB Lectr.
Morrison, Anne I., BSc Jr. Res Fellow

Child Health

Craig, J., MB ChB, FRCPEd Prof.
Clark, N. S., BSc MD, MRCP Sr Lectr
Thorn, Mrs. Hazel, BSc PhD Lectr
..... Lectr.
Galloway, W. H., MB ChB *Edn.*, FRCPEd †Asst

Clinical Chemistry

Bowman, W., MA BSc MB ChB Lectr.
Fraser, G. P., BSc PhD Lectr.
Mitchell, P. E. G., MD Lectr
..... †Lectr
Law, Mrs. Elizabeth A., BSc MB ChB †Asst

Dental Surgery

..... †Lectr.

Diseases of the Ear, Nose and Throat

Collins, E. G., MB ChB, FRCSEd †Lectr.
MacNaughtan, I. P. J., MB ChB, FRCSEd †Lectr.
..... †Asst
Thomson, I. S. D., MB ChB, FRCSEd †Asst
Weir, C. D., MC, MB ChB, FRCSEd †Asst

Diseases of the Skin (including Venereal Diseases)

Anderson, T. E., MD, MRCPED †Lectr
Lyell, A., MD *Camb.*, MRCPED †Asst
Finnie, J. S., MD †Asst
Rutherford, H. W., MB ChB †Asst.

Forensic Medicine (including Medical Ethics)

Hendry, W. T., MB ChB †Lectr
McBain, D., MB ChB †Asst.

Materia Medica and Therapeutics

Macgregor, A. G., BSc MD *Glas.*, MRCP, FRCPEd, FRFPSCGlas Regius Prof
Crooks, J., MD, FRFPSCGlas, MRCP Sr Lectr.
Roberts, M. B., MA DPhil *Oxon.*, MB BS *Lond.* Sr Lectr
Forrester, T. M., BSc MB ChB Lectr
Williams, M. J., MB ChB, FRCP Lectr
Thoburn, Anne R., BSc *Edin* Res Asst

Medicine

Fullerton, H. W., MA MD, FRCP, FRCPEd Regius Prof
Morgan, T. N., MD, FRCP Hon Reader
Palmer, K. N. V., MA MD *Camb.*, MRCP Sr Lectr.
Macleod, M., MB ChB, FRCPEd Sr Lectr.
Manson, Doris I., MB ChB, MRCPED Lectr.
McDonald, G. A., MD Lectr.
Dawson, Audrey A., MB ChB, MRCPED Lectr.
Gordon, I., OBE, BSc MB ChB, FRCP, FRCPEd †Lectr.
Gauld, W. R. TD, MD, MRCP †Asst
Needham, C. D., MD *Lond.*, FRCP †Asst
Wilson, L. A., MA MD, MRCP †Asst.
Knox, J., MB ChB *Glas.*, MRCP †Asst.
Short, D. S., MA MD PhD *Camb.*, MRCP †Asst.

Mental Health

Millar, W. M., MD DipPsych *Edin*, FBPoS Ciombie-Ross Prof
Sinclair-Gieben, A. H. C., MB ChB DipPsych *Edin*, MD *Amst.*, DTMH
Ley, MRCPED Sr Lectr.
Fraser, N. G., MB ChB DPM *Lond.* Lectr
Wyllie, A. M., BSc MD *Glas.*, DipPsych. *Edin* †Lectr.
Stewart, R. A. Y., MB ChB *Glas.*, DPM *Lond.*, FRFPSCGlas †Lectr
Innes, G., MD DPH Sr. Res. Fellow
Sharp, G. A., MA *Edin* Sr. Res. Fellow
Taylor, Mrs. Joan D., MA Asst.
Rowlands, Mrs. Helen C. S., DipPsych *Edin*, MB ChB †Asst.
Winders, Winifred, MA *Camb* †Asst
Faulkner, G. E., MB ChB *Birm.*, DPM *Lond* †Asst
..... †Asst

Midwifery and Gynæcology

Baird, Sir Dugald, BSc MD DPH Hon LLD *Glas*, FRCOG Regius Prof.
Thomson, A. M., BSc MB ChB *Glas.*, DPH *Lond.* Sr. Lectr.
Turnbull, A. C., MB ChB Sr Lectr.
Dennis, K. J., MB ChB, FRCSEd Lectr.
Milne, G. P., MB ChB, FRCOG †Lectr.
Wyper, J. F. B., BSc MB ChB *Glas.*, FRCOG †Asst.
Bernard, R. M., MB ChB †Asst.

Ophthalmology

Cockburn, C., TD, MA MB ChB,
FRCSed
Milne, W. S., DO *Oxon.*, MB ChB
....

†Lectr.
†Asst
†Asst.

Pathology

Young, J. S., MC, MA BSc MD *Glas*
(retires Sept 1962) Regius Prof
Stalker, A. L., MD, Sr Lectr.
Nairn, R. C., MD PhD *Liv.*, Sr. Lectr.
Branwood, A. W., MD, FRCPEd, MRCP
Carr, A. J., BSc MB ChB *Glas*, Sr Lectr.
Best, P. V., MB ChB *Birm*, Lectr.
Scott, G. B., MB ChB, Lectr.
Porteous, I. B., MB BS *Durh*, Lectr.
Shanks, J. A., MB ChB, Lectr.
Ghose, T. Georgina McRobert Res Fellow

Public Health, see Soc. Med**Radiology**

Levack, D. P., CBE, TD, DMRE *Camb*,
MB ChB, †Lectr.

Social Medicine

Backett, E. M., BSc MB BS DPH *Lond*,
MRCP, Prof.
Richardson, I. M., JP, MD *Edin*,
DPH *Glas*, PhD, FRCPEd, Sr. Lectr.
Weir, R. D., MB ChB DPH, Lectr.
Mann, C. J. H., MB BS DPH *Lond*, Lectr.
Kilpatrick, S. J., MSc PhD *Belf* (also Stats) Lectr.
Brodie, J., MD DPH *St And*, †Lectr.
MacQueen, I. A. G., MA MD DPH *Edin*, †Lectr.
Doig, A. T., MD DPH *St And*, FRFPGlas,
FRCPEd, †Lectr.
Harley, Joyce, BSc *Manc*, Hon Res. Fellow
Chambers, W., MD *Glas*, †Asst.

Surgery

Wilson, W. C., MB ChB *Edin*, FRCSEd
(retires Sept 1962) Regius Prof
Dudley, H. A. F., ChM *Edin*, FRCSEd
Clark, C. G., MD, FRCS, FRCSEd, Sr Lectr.
Matheson, N. A., MB ChB, FRCS, Sr Lectr.
FRCSEd, Lectr.

Gowar, F. J. S., MB BS *Lond.*, FRCS,
FRCSed, †Lectr.
Rennie, A. M., MB ChB, FRCS, †Lectr.
Nichols, W. M., MBE, TD, MSc *McG*,
MB ChB, FRFPGlas, †Lectr.
Davidson, S. G., MA MB ChB, FRCS,
FRCSEd, †Lectr.
Logie, N. J., TD, MB ChB, FRCS,
FRCSEd, †Lectr.
Miche, W., MB ChB, FRCSEd, †Asst.
Philip, J. F., ChM, FRCSEd, †Asst.
Jones, P. F., MA MChir *Camb*, FRCS, †Asst.
Adam, A., MB ChB, FRCSEd, †Asst.
Carr, T. L., ChM, FRCS, †Asst.
Hendry, N. G. C., MB ChB, FRCSEd, †Asst.
Brunner, P. L., MB ChB, FRCS, FRCSEd, †Asst.
Hay, G., MB ChB *Edin*, FRCSEd, †Asst.
Fraser, R. J. A., MB ChB, FRCSEd, †Asst.
Proctor, D. M., MB ChB, †Asst.
MacKenzie, I. G., MD *Edin*, FRCSEd, †Asst.
Mavor, G. E., MD *N.Y.*, MA ChM,
FRCSEd, †Asst.

Tuberculosis

Bell, D., MD *Edin*, DPH, †Lectr.
Mason, Anna T., MB ChB *Glas*, †Asst.
Fraser, R., MD DPH, †Asst.

Venereal Diseases, see Diseases of the Skin.**HONORARY RESEARCH LECTURERS**

Cuthbertson, D. P., CBE, MD DSc
Hon. LLD *Glas.* (Physiol. of Nutrition)
Lucas, C. E., CMG, DSc *Lond*
(Fisheries & Oceanography)
Stewart, A. B., MA BSc PhD, FRIC (Soil Sci)
Reay, G. A., CBE, PhD *Camb*, MA
BSc, FRIC (Fish Technol.)
Tinker, M. A. H., MA *Camb.*,
DSc *Lond*, FLS (Crop Physiol.)

**GIFFORD LECTURER IN NATURAL
THEOLOGY**

.....

EXTRA-MURAL STUDIES

Walker, N. T., OBE, MA EdB PhD *Glas.*,
FBPps, |Dir
Wood, K. A., MA, Tutor-Organizer

ADMINISTRATIVE AND OTHER STAFF

Asst Sec (Senatus): J. George, MA *Camb*
Asst Sec. & Treasurer W. J. A. Nelson, MA,
CA. Asst Sec. (Edilis) J. T. Kelman Jr Asst.
Secs: G. R. Anderson, BLatt *Oxon*, MA;
D. W. Girvan, MA LLB *Edin*; A. G. Mitchell,
MA *St. And*, LLB *Edin*; A. N. Walker

Cashier: G. F. Bremner. Principal's Sec.:
Florence Mackenzie, MVO, BA *Lond* Registry:
J. Greig Med Officers (Students' Health Service)
H. R. Worth, MB ChB *Edin*; C. Murray,
MB ChB, I. Gordon, OBE, BSc MB ChB,
FRCP, FRCPEd (pt-time). Chaplain: Rev

A O Robertson, MA BD STM. Dir. of Phys. Educn & Recreation H G U'ren Dir. of Phys Educn & Recreation for Women Adele F Mackinnon. Asst Dir of Phys Educn & Recreation G B. Allender. Adviser to Women

Students. Mrs. Margaret E Clarke, JP Matron of Med Hall of Residence Jean McAnish Warden of Crombie Hall, Old Aberdeen. T. Lawrenson, MA DipEd PhD *Mane*

ASSOCIATED COLLEGES

NORTH OF SCOTLAND COLLEGE OF AGRICULTURE, 41½ Union St., Aberdeen (telegrams. Nosca, Aberdeen, tel. Aberdeen 27205). The coll, which was establd in 1904, offers various courses in agric, certain of which are, by arrangement with the univ, held in Marischal Coll of the Univ of Aberdeen All coll of agric students in attendance there are matriculated students of the univ

Principal—M A H Tincker, MA *Camb*, DSc Lond, FLS Sec. H. Munro, CA. Dir. of Studies D A McKenzie, BSc(Agr) *Glas*. Central Teaching Staff: ANIMAL HEALTH, J C. Grant, ANIMAL HUSB, T. L. Dodsworth, BSc (Agr) PhD, BOT, D Clouston, MA BSc(Agr) DSc, CHEM, W Moore, BSc(Agr) DSc; CROP HUSB, R Bain, BSc(Agr), ENGIN., G Murray, BSc(Agr) *Glas*; ZOOL., D Robertson, BSc(Agr) PhD DSc, SCH. OF RURAL DOMESTIC ECON., Mrs. Jean S Henderson, BSc *Edin*; CERT COURSE IN AGRIC, H. Munro, MA; CRAIBSTONE FARM, J. Ravell, BSc *Durh*, BACTERIOLOG., D A McKenzie, BSc(Agr) *Glas*, BEE-KEEPING, A S C. Deans; ECON AND BOOK-KEEPING, A D Imper, MBE, MSc(Econ) *Wim*, BSc(Agr) PhD, FARM BUILDINGS, D S Soutar, HORT, J. S. Pantou, MA BSc(Agr) Assisting in the above depts are 21 assts Specialist advisory staff in agric, bacteriol, agric. econ, entomol., farm bldgs., grassland husb., mycol, animal husb, crop husb, poultry husb, vet investigation, bee-keeping res. Country advisory staff: 2 regional dirs, 2 sr advisers in agric, 2 sr advisers in dairying and poultry-keeping, 13 agric advisers, 13 asst. agric advisers, 4crofting advisers, 17 advisers in dairying and poultry-keeping, 7 machinery instrs, 7 hort advisers, 4 bee-keeping advisers

Students (1960-61) dipl courses, 85, cert course in agric., 37, Craibstone Sch of Rural Domestic Econ, 76 All students reading for non-univ. qualifs

ROBERT GORDON'S TECHNICAL COLLEGE, Schoolhill, Aberdeen (tel. Aberdeen 29384). The coll. is one of the 'central institutions' in Scotland and the governors conduct schools of engin, maths and phys, chem, pharmacy, navigation, art (incl drawing, painting, design and sculpture), archit., building and surveying, domestic sci. The sch of art is known as Gray's School of Art and the sch of archit as Scott Sutherland School of Architecture. The court of the univ. and the governors of the coll. co-operate in the provision of day courses leading to the degree of BSc(Eng)

of the univ and to the dipl. of associateship of the coll in engin.—civil, mech and electr. The courses in naval archit, mech and electr engin. are recognized under the schemes for the award of higher natnl dipls Courses for marine engineers are provided in preparation for exams. of the several grades of certs of competency issued by the Ministry of Transport, incl. that for extra-first class. Evening courses in the higher branches of civil, mech., electr. engin., naval archit, maths., phys, chem, papermaking and management studies

Fees. All fees for degree courses payable at the univ. (see p 1231) For engin associateship and natnl dipl (higher), 1st, 2nd and 3rd yrs, each £50 (plus matric. fee, 2nd and 3rd yrs, £2 12s. 6d.).

Staff—Dir, A C. West, JP, BSc *St And*, PhD Lond, MIMechE. ARCHIT, Hd of Sch, E F Davies, BArch *Liv*, FRIBA, FRIAS, 6 Asst Teachers. ART, Hd of Sch, I Fleming; 2 Hds of Depts., 11 Asst Teachers CHEM, Hd of Sch., M B Watson, PhD *Rdg*, BSc, FRIC, Lectrs.. G W Youngson, BSc PhD, FRIC, G A. Fraser, BSc, A. Hunter, BSc, J Towler; N G MacMillan, BSc, R Buchan, BSc. DOM SCI., Hd. of Sch, Mrs. Mary H. Gilibe, BA *Mane*; 3 Hds of Depts; 13 others. CIVIL ENGIN, W D Millar, BSc ELECTR ENGIN, Lectrs; G C Colmar, BSc *Glas*; L. F. Dorward, BSc(Eng) Lond, A. M. Hardie, MA BSc (Eng) PhD, N M. Levy, BSc(Eng); A J. Lilburn, BSc(Eng) MECH. ENGIN, Lectrs. J M Corry, BSc(Eng) Lond.; R. A. Hendrie, BSc(Eng) Lond., MIMechE; R Hosie, BSc (Eng); F. Thomson, BSc MARINE ENGIN, Lectrs; E T. Morgan, BSc(Eng) *Wales*, C Hay; C L Robertson, MATHS. AND PHYS, Hd. of Sch., J D Stewart, MA PhD; Lectrs: R. G. Angus, MA, H. Mutch, MA, W R. Oliver, BSc *Edin*, J. S. Morgan, MA; S. N. Forrest, MA. NAVAL ARCHIT., A E. Urquhart, NAVIGATION, Hd of Sch, A. Simpson, BSc; Lectrs.: F W Gardiner, G P. Insh, D F. McKay, W McL. Paterson; Capt J M. Smith, G B Swan, Lectr. in Ambulance Work, A G. Beattie, MB ChB. PHARMACY, Hd of Sch., D. Edwards, BSc PhD, FRIC, Lectrs. J. S. Galloway; A Macdonald, G. R. Page, BSc Lond., FRIC; Nancy M Rose, MA BSc; A M Morrison; W H Stewart, BSc(Pharm); G M. Bowen, BSc.

Students (1960-61), 2150 (full-time, 550, incl. 90 reading for univ. qualifs.; pt-time, 1600).

GENERAL INFORMATION

The Univ. of Aberdeen derives its origin and endowments from 2 sep. and for a long time indep. foundations. One of these was the univ. founded by William Elphinstone, Bishop of Aberdeen, under the authority of a papal bull obtained in 1494-95 at the instance of King James IV, within which univ. was afterwards founded, in 1505, the Coll. of St Mary, subsequently called King's Coll. From this royal patronage, it was held to stand in a specially close relation to the sovereign, and is accordingly styled in acts of the Scots parliament—'our sovereign lord his college and university'. The other foundation was that of Marischal Coll. founded in 1593 by George Keith, fifth earl marischal, under a charter ratified by act of the Scots parliament. Both the above foundations were reconstituted in 1860 as 'The University of Aberdeen', which is incorporated under the Universities (Scotland) Act of 1889.

CONSTITUTION. The univ. court, which controls the finance, property and general admin. of the univ., was constituted a corporate body by the Universities (Scotland) Act, 1889. The members of the court are the rector (president), the principal, the lord provost of Aberdeen (all *ex officio*), an assessor appointed by the chancellor, one appointed by the rector, one appointed by the town council, 4 elected by the general council of the univ. and 4 elected by the *senatus academicus*. The *senatus academicus* is charged with the general supervision of teaching and discipline, and is composed of the principal and all profs. of the univ. (*ex officio*) together with certain non-professional members, the no. of which is controlled by ordinance. The general council consists of the chancellor, the members of the univ. court, profs. and all grada. of the univ., as well as readers and lectrs. of 1 yr.'s standing. The five facs (arts, sci., div., law and med.) consist of profs. assigned to them by ordinance, readers assigned by univ. court after consultation with *senatus*, other profs., readers and lectrs. apptd. for a certain period by *senatus* after consultation with or recommendation by the facs. The chancellor is appointed for life by the general council; the rector is apptd. for 3 yrs by the matriculated students of the univ., voting through procurators in four 'nations'; the vice-chancellor is appointed by the chancellor for the purpose, in the absence of the chancellor, of discharging his office in so far as regards the conferring of degrees.

INCOME (1959-60) Total income, £1,120,834 (govt. grants, 81 per cent.; fees, 8 per cent.; endowments, 4 per cent.; other sources, 7 per cent.).

FACULTIES AND DEANS. *Arts*, Prof. W. Witte (German); *div.*, Rev. Prof. J. S. McEwen (church hist.); *law*, Prof. P. G. Stein (jurisp.); *med.*, Prof. R. D. Lockhart (anat.); *sci.*, Prof. W. O. Kermack (biol. chem.).

UNIVERSITY PRECINCT. The depts. accommodated within King's Coll., Old Aberdeen, belong to the facs. of arts and div. The classes in the fac. of law, and the depts. of psychol., geog. and educn., are accommodated within the reconstructed St. Mary's Church, Old Aberdeen. The bot. and for depts., incl. the Cruickshank bot. gardens, occupy adjacent bldgs. also in Old Aberdeen. On a sep. site is the chem. bldg. (opened in 1952), in which are accommodated the depts. of chem., agric. biochem., soil sci. and the students' health service. In a new wing (opened in 1957) of this bldg. are the dept. of stats. (incl. an Agric. Res. Council statistical unit) and certain minor depts. in fac. of arts. On a site opposite the chem. and stats. bldgs. is Crombie hall of residence, a mixed residence accommodating 64 women students, 46 men students and 15 members of staff. In Marischal Coll. the depts. accommodated belong mainly to the facs. of sci. and med. (1st, 2nd- and 3rd-yr. subjs.). At Foresterhill joint hosp. site, in close proximity to Aberdeen Royal Inf., the Maternity Hosp. and the Royal Aberdeen Hosp. for Sick Children, are the univ. med. bldgs. in which are accommodated all med. classes from the 4th yr. onwards, and a residence for 5th or final yr. med. students undergoing their 7 wks' period of compulsory residence during midwifery trg.

The LIBRARY, founded in 1494, has over 350,000 vola. incl. more than 200 incunabula, some unique. It is especially rich in Celtic lit., and bks. bearing on the hist., topog. and antiquities of the Scottish highlands, and classical archaeol. It also contains the McBean Jacobite collection, reputed to be the largest in the world outside the British Museum. Annual budget more than £15,000.

MUSEUMS. Marischal Coll.: anat. museum (human & compar.), also anthropol. museum containing ethnog. and archaeol. (mainly Egyptian) items, as well as local antiquities; large numismatic collection. Nat. hist. dept. museum, principal display being teaching collection of systematic zool. Foresterhill: pathol. museum containing more than 1000 specimens.

RESEARCH. Besides the usual labs. there is the Rowett Inst. of Res. in Animal Nutrition, Bankhead, n1. Aberdeen (tel. Bucksburn 7), with depts. of physiol., biochem., bacteriol. and pathol., and attached animal husb. section for practical experiments in feeding, etc. It is under the management of a jt. cttee. of the univ. and the N. of Scotland Coll. of Agric. There are also the Macaulay Inst. for Soil Res., Craigiebuckler, Aberdeen (tel. Aberdeen 33223), Torry Res. Stn. (fish technol.) of D.S.I.R. (tel. Aberdeen 24258), and the Scottish Home Dept. marine lab. (fisheries & oceanog.) (tel. Aberdeen 25218).

TEACHING HOSPITALS. Hosps. available for clinics. Infirmary, 605 beds, Woodend H.,

400; Children's H, 194; Fever H, 254; Mental H, 897; Maternity H., 173.

ADMISSION See Appendix III. Persons wishing to attend classes as private (non-graduating) students may do so only with the approval of the appropriate departmental hd., and on payment of the necessary class and matric fees

FIRST DEGREES. Ordinary degrees MA, BSc, BSc(Agr), BSc(Eng), BSc(For)—3 yrs (for BSc (Agr) one addnl. yr.'s work on approved farm required). MB ChB—6 yrs. Honours MA degree—4 yrs (following groups available: classics, mental philos., maths-nat philos. (physics), Engl., French-German, hist., hist-Engl., econ. sci., Latin-French, Greek-Engl., French-Engl., German-Engl., French-Spanish, German-Spanish, Latin-Spanish, Latin-Celtic, philos-Engl., geog., Latin-Engl., Celtic-Engl., psychol-econ. hist. & theory, psychol-philos., Engl-psychol., Spanish-Engl., music, psychol., hist-pol., econ-pol., philos-pol., Latin-Italian, French-Italian, Spanish-Italian, Latin-biblical studies, Engl-biblical studies, maths, nat philos., German-Swedish, Engl-Swedish, Italian-Engl., jurispr-philos., jurispr-pol., French, German) Honours BSc degree—4 yrs (following groups available: maths, nat philos. (physics), chem., bot., zool., geol., geog., anat., physiol., biochem., psychol.) Hons BSc(Agr), BSc(For), BSc(Eng) degrees—4 yrs. (for BSc(Agr) one addnl. yr.'s work on approved farm required)

HIGHER DEGREES. EdB—2 yrs.' course after 1st degree in arts or sci., BD—3 yrs.' course after 1st degree in arts, LLB—1 yr. full-time or 15 mos. full-pt-time or 18 mos pt-time

HONORARY DEGREES. DD, LLD, DLitt

The Univ does not award EXTERNAL DEGREES

DIPLOMAS Educn—1 yr. postgrad., statistics —2 yrs postgrad., DPH—1 yr full-time or 15 mos. full-pt-time or 18 mos pt-time

STUDY LEAVE No regular practice, but applicants by members of staff for leave of absence dealt with by univ. court on their individual merits.

FEES Annual fees (incl tuition, exam and lab (fees)). MA, EdB, BD, BL, LLB, £35; BSc (pure, agric, for, engin), £55, MB ChB, £60, DPH, £70; dipl. in stats, £35. In addition, annual matric fee (includes membership of students' union) of £2. 12s. 6d

Note Revision of all fees from Oct. 1962 is under consideration.

ACADEMIC YEAR Three terms, each of 10 wks. winter (Oct-Dec), spring (Jan-Mar) and summer (April-June).

ADULT EDUCATION AND VACATION COURSES. Adult educn classes under the Adult Education (Scotland) Regns., 1952, are conducted in Manschal Coll. in conjunction with the educn cttee. of Aberdeen town council. Classes under the regns. for the Kilgour (mechanics' institution) lectures are conducted under the same auspices. The univ dept of extra-mural studies (see also 'Teaching Staff', above) conducts certain adult educn. courses in the larger burghs in the univ. area. No vacation courses are held within the univ.

ENTRANCE BURSARIES AND SCHOLARSHIPS At annual entrance bursary competition bursaries and scholps valued up to £70 p.a. are available for award in the facs of arts, sci. and med.

POSTGRADUATE AWARDS open to grads of other univs see p 808.

APPOINTMENTS There is no appts cttee., but advice is given by a member of the admn. staff as to preparation for entrance to various govt services and other appts. All communications to be addressed to The Secretary to the University

ALUMNUS ASSOCIATION All grads and alumni of the univ are eligible for membership of the Aberdeen Univ alumnus assocn. Particulars from the sec., L J Smith, MA LLB, 9 Bonaccord Sq, Aberdeen (tel. Aberdeen 29482).

RESIDENCE List of lodgings published by corporation publicity service. Lodgings cost from £3 upwards per wk. There is a hall of residence for med students in which residence (fee at present £36) is compulsory for 9 wks. during the 5th or final yr. of study. Vacancies for voluntary residents from any fac. usually available at a cost of £4 per week. Crombie hall of residence in Old Aberdeen open for all facs and to men as well as women. Fees covering all 3 terms, £150, incl. jr. common-room sub and all meals.

UNIVERSITY MILITARY AND AIR FORCE FORMATIONS There is a contingent of the officers' trg. corps (T.A.) attached to the univ (C.O. Lt.-Col J. Reid); it has infantry, engin., med. and signals sections with a perm. staff of officer and other rank instrs. A sub-unit of the W.R.A.C. is attached. There is also a squadron of the Royal Auxiliary Air Force attached to the univ (C.O. Sqn Ldr T. Benson). H.Q. of both formations is situated at Powis Gardens, Old Aberdeen (tel.: Aberdeen 43861). Membership of all formations is voluntary, and is confined to matriculated students of the univ.

STUDENT HEALTH SERVICE. There is a med. officer for the compulsory exam of all med. students, and students in all facs must submit to mass miniature radiography annually.

PHYSICAL WELFARE OF STUDENTS There is a dir. of phys. educn. with a woman dir. for female students. See 'Admin and Other Staff', above

ATHLETIC ACTIVITIES There are playing-fields of approx. 22 acres at King's Hill. Membership of Aberdeen Univ athletic club is open to all

matriculated students on payment of a fee, as is membership of the affiliated clubs (football, cricket, swimming, etc.) At King's Coll there is a modern well-equipped swimming-pool, and squash courts, etc

UNIVERSITY UNION. All students on matric become members of the univ union without further fee. The union has a large hall (with stage and full stage equipment), billiards room,

music room, reading-rooms and spray baths, as well as snack bars and dining-rooms

PUBLICATIONS *Calendar* (Oct), 22s 6d (post free inland); fac prospectuses, 1s. 6d each, *Univ Review*, 16s. p a. (2 issues), *Students' Handbook and Diary* (Nov), 3s. 6d, *Alma Mater* (organ of S R C)

UNIVERSITY PRESS. Aberdeen University Press, Ltd., 6 Upperkirkgate, Aberdeen (managing dir H M R Watt, MA)

THE YEAR 1960

PRINCIPAL BENEFACTIONS Carnegie Trust, Edinburgh, £22,491 for various purposes; trustees of W S McGillivray, W Australia, £12,279 for gen purposes, trustees of Dr J. W. A. Hunter, S Africa, £10,500 for foundation of med scholp

MAJOR BUILDING DEVELOPMENTS *Bldgs completed*· Extn. to univ union at Gallowgate

RETIREMENTS Rev Prof J Macleod (Christian dogmatics).

RESIGNATIONS Dr B J Aylett (chem), Dr G M Bannison (geol), Dr N A Bowen (maths); Dr D Bulmer (anat), Dr A B Cairnie (physiol.), Dr R C Campbell (anat); R Davidson (bibl study), Dr J A M Findlay (anat); Dr B Forman (nat hist); A S Fraser (geog), Dr K B Fraser (bacteriol), Dr M S Fraser (child health); Dr R D D Gibson (French); Dr R Inman (physiol), J Kyle (surg), Dr I MacGillivray (midwifery); Dr M. C Macnaughton (midwifery), W O Pattullo (mercantile law); Dr S D Richardson (forestry); Dr M Singh (anat), Dr A Ward (nat. philos), J N Young (pub. law).

HONORARY DEGREES *DD*—Rev D. MacDonald, formerly chaplain on the Indian ecclesiastical est and minister of Well Rd Church, Moffat; D. M. MacKinnon, Norris-Hulse prof of div., Camb *LLD*—Emer Prof F. De Visscher, pres., Inter. Soc. for Hist. of Laws of Antiquity; K O Dike, principal & prof. of hist.,

Univ. Coll., Ibadan, Sir Hector J W. Hetherington, vice-Chancellor and principal, Glas, E C Pery, 5th Earl of Limerick, Hon F M Ross, formerly Lt-Govr. of prov. of Br Col, Dr G Swapp, gen. practitioner in city of Aberdeen.

Statistics

STUDENT NUMBERS, 1960-61

	<i>Full-Time</i>	<i>Part-Time</i>
Men	1385	210
Women . .	631	33
Total	2016	243

Distribution by Faculties *Arts*, 900, *div*, 23, *law*, 70, *med*, 439, *sci.*, 827 Total: 2259.

Included in the figures above are—

Postgraduate students, 196

New admissions, 584.

Students from other countries, 216 (Countries from which largest numbers came Norway, 26, Nigeria, 19, Trinidad, 15, Kenya, 10, Sweden, 10; Ghana, 9; Germany, 8, Mauritius, 8)

DEGREES AWARDED (1959-60). *Arts* EdB, 4, MA, 178; PhD, 2. *Div* BD, 5, PhD, 2. *Law*. BL, 1, LLB, 11, PhD, 1. *Med* MB ChB, 65, MD, 11; ChM, 1. *Sci.* BSc (Agr), 7, BSc(Eng), 33, BSc(For), 16; BSc (pure), 95, DSc, 2, PhD, 23. *Total number of first degrees awarded*, 395

DIPLOMAS AWARDED (1959-60) DipEd, 15

UNIVERSITY OF EDINBURGH*

Founded 1583

Postal Address . Edinburgh, Scotland
Cables and Telegrams . University, Edinburgh
Telephone Newington 1011

CHANCELLOR—H R H. THE DUKE OF EDINBURGH, KG, KT, GMBE, Hon LLD *Wales & Edm*, Hon DSc *Delhi*, FRS

VICE-CHANCELLOR AND PRINCIPAL—SIR EDWARD V APFLETON, GBE, KCB, MA Hon ScD *Camb*, Hon DSc *Oxon*, *Brussels*, *Leeds*, *Syd*, *Sheff* & *Laval*, Hon LLD *Aberd*, *Bum*, *St And*, *Lond*, *Glas*, *Leu* & *Dal*, Hon LLD *Cmc*, Hon DUMontr, DSc, FRCSEd, FRS

RECTOR—J GRIMOND, TD, BA *Oxon*, LLD

SECRETARY TO THE UNIVERSITY—C. H. STEWART, OBE, JP, MA LLB *Glas*, CA

SECRETARY TO THE GENERAL COUNCIL—A NISBET, MA

REGISTRAR TO THE GENERAL COUNCIL—C H STEWART, OBE, JP, MA LLB *Glas*, CA

LIBRARIAN—E R. S. FIFOOT, MA *Oxon*.

ACCOUNTANT—R O CURLE, CA

TEACHING STAFF

[†=Part-Time]

Accounting and Business Method			
Anderson, D. S., MA, CA	Prof	Adams, D., MDS BSc	Lectr
	Lectr.	Peters, A., BSc PhD <i>Brust</i>	Lectr
Taylor, J., MA, CA	Lectr	Mackay, B., MB ChB PhD	Lectr
Ritchie, J. M., CA	Lectr	8 Assts (Appl A)	
Kwiecinski, T. Z., BCom, CA	Lectr	Anatomy, Comparative (Veterinary)	
Small, J. R., BSc	Lectr	Grahame, T., FRCVS	Reader
Actuarial Science		Anthropology	
Skinner, J., MA, FFA	Lectr	Little, K. L., MA <i>Camb</i> , PhD <i>Lond</i> .	
Walker, I. S., FFA	Lectr	(Soc A.)	Reader
Agriculture, see below		Littlejohn, J., PhD	Lectr
		Collins, S. F., MA PhD	Lectr
		Banton, M. P., BSc <i>Lond.</i> , PhD	Lectr.
		3 Assts	
Anatomy		Arabic	
Romanes, G. J., BA PhD <i>Camb</i> , MB ChB, FRCSEd	Prof.	Watt, W. M., MA <i>Oxon</i> . & <i>Edm.</i> ,	
Inkster, R. G., MA <i>Dub</i> , MD	Reader	BLitt <i>Oxon</i> , PhD	Reader
Kuczynski, K., MB ChB, FRCS	Sr Lectr	Cachus, P. J. E., BA <i>Ames</i> , PhD	Lectr
Muir, A. R., MD	Sr Lectr	Archæology, Classical	
Campbell, Nora, MB ChB	Lectr.	Snodgrass, A. M., BA <i>Oxon</i>	Lectr.
Craig, R. C., MB ChB, FRCSEd	Lectr	Archæology, Prehistoric	
Taylor, H. W. Y., MA BSc MB ChB	Lectr	Piggott, S., BLitt <i>Oxon</i> , Hon. DLitHum <i>Col.</i> ,	
DTM&H	Lectr	FBA	Abercromby Prof
Barrett, Helen S., MB ChB	Lectr	Thomas, A. C., MA <i>Oxon</i> , FSA	Lectr.
Robertson, D., DTM <i>Calc</i> , MB ChB, FRCSEd	Lectr		
King, J. B., MD DR, FRCP, FFR	Lectr		
Kerr, A. W. S., MB ChB	Lectr		

* Member of the Association of Universities of the British Commonwealth

Stewart, Rev. J. S., MA DD *St And.*
(NT Lang & Lit) Prof.
Tindal, Rev. W. S., OBE, MA *Glas*, DD
(Christian Ethics & Practical Theol)

Prof.
(O.T. Lit. & Theol.) Prof.
Duthie, Rev. C. S., BD *Aberd.* & *Edin.*,
MA *Aberd.* Lectr.
Barbour, Rev. R. A. S., MC, MA *Oxon.*,
BD *Strand*, STM *Yale* Sr. Lectr.
Moir, Rev. I., MA *PhD* Lectr.
Torrance, Rev. J. B., MA *PhD* Lectr.
Gray, Rev. J., MA *BD* Lectr.
Reid, Rev. I., BA *Camb* Lectr.
Cheyne, Rev. A. C., MA BD BLitt *Oxon.* Lectr.
Dunlop, Rev. A. I., BD Lectr.
1 Asst.

Economics

Peacock, A. T., DSC, MA *St And.*
(Econ Sci) Prof.
Stewart, I. G., MA *St And* & *Camb* Reader
Smith, I., MA Sr. Lectr.
Wright, L. C., BA *Wales*, PhD Sr. Lectr.
Heughan, Hazel, MA Lectr.
Dossier, D. G. M., BSc(Econ) *Lond* Lectr.
Johnston, T. L., MA *PhD* Lectr.
Winch, D. N., BSc(Econ) *PhD Lond.* Lectr.
2 Assts.

Education

Pilley, J. G., MA *Oxon.* Prof.
Pillmer, A. E. G., BSc *Birm* Lectr.
Adams, H. M., MA Lectr.
Hamilton, R., MA Lectr.
Sutherland, J., MA BEd *PhD* Hon. Lectr.
Ingles, W. B., OBE, MA EdB *Glas.*,
PhD Hon. Lectr.
Fulton, A. S., MA BEd *PhD* Hon. Lectr.
Renshaw, T., BSc BEd *PhD* Hon. Lectr.
Maxwell, J., MA BEd Hon. Lectr.
4 Assts.

Engineering, Civil and Mechanical

Arnold, R. N., DSc *Glas.*, PhD DEng *Sheff.*,
MICE Regius Prof.
Stewart, D. S., BSc *Lond*, PhD, MICE
Sr. Lectr.
Patterson, C., MIMechE Sr. Lectr.
Robson, J. D., MA *Oxon.*, PhD Sr. Lectr.
Patten, T. D., BSc *PhD* Sr. Lectr.
Dudgeon, W., BSc Lectr.
Hunter, W. B., BSc Lectr.
Davies, S. R., BSc *PhD* Lectr.
Barr, A. D., BSc *PhD* Lectr.
Christie, I. F., BSc Lectr.
Hsu, T. C., PhD Lectr.
Goudie, G. O., BSc Lectr.
3 Assts.

Engineering, Electrical

Farvis, W. E. J., BSc *Lond*, MIEE Prof.
Meltzer, B., BSc *PhD*, FIP Sr. Lectr.
Melvin, H. M., MA *Oxon.*, PhD Lectr.

Oldfield, J. V., BSc *PhD Lond* Lectr.
Dorf, R. C., PhD *Calif* Lectr.
Muggleton, L. M., BSc *PhD Cape T* Lectr.

English Language and General Linguistics

McIntosh, A., MA *Oxon.*, AM *Harv* Prof.
Halliday, M. A. K., MA *PhD Camb.*,
BA *Lond* Reader
Schranz, O. K., MA *Wales*, PhD *Camb* Sr. Lectr.
Pride, J. B., MA Lectr.
Sinclair, J. M., MA Lectr.
Palsson, H., BA *Dub* (Icelandic) Lectr.
Ellis, J. O., BA *PhD* Lectr.
1 Asst.

English Literature and Rhetoric

Butt, J. E., MA BLitt *Oxon*, FBA Regius Prof.
Maynard, Winifred A., BA *Durh.*,
BLitt *Oxon* Lectr.
MacQueen, J., MA Lectr.
Rutherford, A., MA BLitt Lectr.
Kinkaid-Weekes, M., BA *Cape T.*,
MA *Oxon.* Lectr.
Carnall, G. D., MA BLitt *Oxon* Lectr.
Gregor, I. C. S., BA *Durh.*, PhD Lectr.
Williamson, C. F., MA BLitt *Oxon* Lectr.
Rodger, A., MA *Edin.* Lectr.
2 Assts.

Entomology, see Agric., below

Forestry, see Agric., below

French and Romance Philology

McMillan, D., BA *PhD Lond* Prof.
Legge, M., Domnica, MA BLitt *Oxon* Reader
Clark, J. G., DU *Paris* Lectr.
Barnwell, H. T., DU *Montpellier*, MA Lectr.
Holden, A. J., BA *PhD Lond* Lectr.
Press, A. R., DU *Bordeaux*, BA Lectr.
Kitchin, Joanna, DU *Paris*, BA Lectr.
8 Assts.

French Literature

Stelle, A. J., MA Prof.

Geography

Watson, J. W., PhD *Tor*, MA, FRSCan Prof.
Robertson, C. J., PhD *Lond.*, MA BSc Sr. Lectr.
Geddes, A., DSc *L. Montpellier*, PhD Sr. Lectr.
Macgregor, D. R., MA *Aberd.* Lectr.
Sissons, J. B., MA *PhD Camb.* Lectr.
Elliott, N. R., BA *PhD Durh.* Lectr.
Macpherson, A., MA Lectr.
Jones, R., MA *PhD Wales* Lectr.
Klawe, J. J., MA *Glas*, DapCom *Grenoble* Lectr.
3 Assts. †Lectr.

Geology

Stewart, F. H., BSc *Aberd.*, PhD *Camb* Regius Prof.

Craig, G. Y., BSc PhD *Glas*

(Palaeontol) Sr Lectr

Walton, E. K., BSc PhD

(Econ G) Lectr

Duff, P. McL., BSc

Lectr

Johnston, M. R. W., DIC, BSc PhD

Lectr

Mercy, E. L. P., DIC, PhD

Lectr

Hallam, A., MA PhD *Camb*, FGS

Lectr

Wadsworth, W. J., MA DPhil *Oxon*

Lectr.

O'Hara, M. J., MA PhD *Camb*

2 Assts

German and Teutonic PhilologyMason, E. C., BA *Oxon*, MA *Camb*,PhD *Leip*

Prof

Wardale, W. L., MA *Liv*.

Reader

Silber, Kathe, PhD *Berl*.

Lectr

George, E. F., MA BLitt *Oxon*

Lectr

Furness, N. A., BA *Durh.*, DrPhil *Innsbruck*

Lectr

2 Assts

GreekBeattie, A. J., MA *Aberd. & Camb*

Prof

Borthwick, E. K., PhD *Aberd. & Camb*,

MA

Lectr.

Stokes, M. C., MA *Oxon*.

Lectr.

Robinson, D. B., BA *Oxon*

Lectr.

Hebrew and Semitic LanguagesPorteous, Rev N. W., DD *St And*,MA *Oxon & Edin*, BD

Prof

1 Asst.

Hispanic StudiesCrosland, Margaret, MA *Camb*

Lectr

Wagg, D. R., MA *Birm*.

Lectr.

Herrero, J., PhD

Lectr.

1 Asst.

History

Horn, D. B., MA DLitt

(Mod H) Prof

Hay, D., MA *Oxon*.

(Mediev H) Prof

Shepperson, G. A., MA *Camb*.

Reader

Kieman, V. G., MA *Camb*.

Sr Lectr

Duncan, A. A. M., BA *Oxon*, MA

Lectr.

Marwick, A. J. B., MA

Lectr.

Malkiewicz, A. J. A., MA

Lectr

Bullough, D. A., MA *Oxon*.

Lectr

Waddell, D. A. G., MA *St And*,DPhil *Oxon*.

Lectr.

Best, F. A., PhD *Camb*.

Lectr

Kochan, L., BA *Camb*, PhD *Lond*.

Lectr

6 Assts.

History, Ancient (Greek and Roman)Cadoux, T. J., MA DPhil *Oxon*.

Sr Lectr.

Lewis, R. G., BA *Oxon*.

Lectr

History, Ancient Scottish, and PalaeographyDickinson, W. C., MC, MA PhD *St And*,DLit *Lond*.

Prof.

Donaldson, G., PhD *Lond*, MA DLitt

Reader

Ferguson, W., MA PhD

Lectr

Nicholson, R. G., MA BSc *Lond*

Lectr

1 Asst

History, Constitutional, and Constitutional LawMitchell, J. D. B., LLB PhD *Lond*

Prof.

MacKinnon, V. S., MA LLM

Lectr

Henderson, H. McN., MA LLB

Lectr

History, Economic, see also Econ.

Youngson, A. J., MA DLitt

Prof

Marwick, W. H., MA

Lectr.

Flinn, M. W., MA *Manch*.

Lectr.

Smout, T. C., MA *Camb*, PhD

Lectr.

ItalianRossi, M. M., MA *Florence*, LibDoc *Rome*

Reader

Phillips, B. D., BA *Oxon*.

Lectr

1 Asst

LatinCampbell, I. M., MA *Glas & Oxon*

Prof

Potter, K. R., MC, MA *Oxon*

Reader

Smith, W. K., MA *Camb*.

Sr Lectr

Wellesley, K., MA *Camb*

Lectr.

West, D. A., BA *Camb*

Lectr.

Walsh, P. G., MA *Liv*, PhD *N.U.I*

Lectr

Law, see below**Mathematical Physics**Schlapp, R., PhD *Camb.*, MA

Sr. Lectr

Nisbet, A., MA

Sr. Lectr

Higgs, P. W., MSc PhD

Lectr.

Candlin, D. J., MA PhD *Camb*

Lectr.

Sercaton, G. R., MA PhD *Camb*.

Lectr.

MathematicsAitken, A. C., MA *N.Z.*, DSc LLD, FRS

Prof.

Edge, W. L., MA ScD *Camb*

Reader

Etherington, I. M. H., BA *Oxon*,

DSc

Sr Lectr

Brown, L. M., MSc *Brist*, PhD

St And

(Tech Maths) Sr Lectr

Lawley, D. N., MA *Camb*, DSc

(Stats) Sr. Lectr.

Cossar, J., BA PhD *Camb*, MA

Lectr

Mott, J. L., MA *Oxon*, PhD

Lectr.

Palmer, D. G., MA *Camb*

Lectr

Mackenzie, G., BSc *St And & Lond*.

(Tech. Maths.) Lectr

Fulton, J., MA PhD *Glas* (Tech. Maths.) Lectr.Heywood, P., MA DPhil *Oxon*

Lectr.

Lucas, A. R., MA

(Tech Maths.) Lectr.

Monk, D., MA PhD

Lectr

Medicine and Surgery, see below

Mining		Farago, P. S., DrPhil <i>Bud</i> , FIP	Sr Lectr.
McAdam, R, BSc PhD	Hood Prof.	Kyles, J, MA	Lectr.
Galloway, J., BSc	Hon Lectr.	Sillitto, R M, BSc	Lectr.
Music		McIntosh, D H, MA DSc	Lectr
Newman, S T M, MA <i>Oxon</i> , MusD <i>Durh</i> , FRCO, FTCL	Read Prof.	Muir, J, BSc PhD	Lectr.
Grierson, Mary, OBE, MusDoc	Sr Lectr	Burns, J. G., BSc PhD	Lectr.
Fairbairn, J., MusDoc	Lectr	Kennedy, P. J., BA <i>Dub</i> , PhD <i>Lond</i>	Lectr.
Redlich, H F., PhD	Lectr	Thomas, G. M., BSc PhD <i>Wales</i>	Lectr.
Leighton, K., MA DMus	Lectr	Rae, A. A. G. A., BSc	Lectr.
Gal, H, MusDoc <i>Edin</i> , PhD <i>Vienna</i>	Lectr	Byrne, J., MSc <i>Dub</i>	Lectr.
Natural History and Zoology		6 Assts	
Swann, M. M., MA PhD	Prof	Phonetics	
Mitchison, J M., MA PhD	Reader	Abercrombie, D, BA <i>Leeds</i>	Reader
Mitchison, N A., MA DPhil <i>Oxon</i> .	Reader	Udall, Elizabeth T., BA <i>Col</i> , MA <i>Lond</i> .	Lectr.
Friend, G. F., MA <i>Oxon</i> , BSc <i>Brist</i>		Albrow, K. H., BA <i>Lond</i>	Lectr.
(Cytol & Exper. Zool.)	Sr Lectr.	Criper, Lindsay, MA	Lectr.
Hale, L J, BSc PhD <i>Lond</i>	Sr Lectr.	Jones, W E, MA <i>Leeds</i>	Lectr.
Campbell, J A., BA <i>Camb</i> , PhD	Sr Lectr.	Physics, see Philos., Natural	
Tuft, P H, MA PhD <i>Camb</i>	Lectr.	Physiology	
Kille, R A., BSc PhD	Lectr	Whittridge, D, BSc DM <i>Oxon</i> , FRS	Prof
Rayski, C, PhD (Helminthol)	Lectr	Pickford, Mary, DSc <i>Lond</i>	Reader
Warwick, T., MSc	Lectr	Passmore, R, MA DM <i>Oxon</i>	Reader
Adam, Mrs Katherine M. G., BSc	Lectr	Draper, M. H., MB BS <i>Adel</i>	Sr Lectr
Manning, A W G., BSc <i>Lond</i>	Lectr	Walsh, E G, MA BM BCh BSc <i>Oxon</i> , MD <i>Harv</i> , DTM&H <i>Liv</i> , MRCP	Sr Lectr
Wilson, F A G., BSc PhD	Lectr.		
5 Assts.		Dewar, A. D., BSc PhD <i>Lond</i>	Lectr.
Persian		Watt, J A., BA <i>Oxon</i> , MB ChB	Lectr
Elwell-Sutton, L. F., BA <i>Lond</i>	Sr Lectr	Haggis, G H, MA <i>Camb</i> , PhD <i>Lond</i>	Lectr
Petrology, see Geol		Begbie, G H, MA PhD MB ChB	Lectr.
Philosophy		Taylor, D E. M., MB ChB, FRCS	Lectr.
Walsh, W. H., MA <i>Oxon</i> .	Prof.	Jacobson, M., BSc PhD MB ChB	Lectr
Coxon, A H, MA (Anc P.)	Sr Lectr	Political Science	
Fairweather, A M., STM U T S (N.Y.), MA	Lectr	Nobbs, D, MA <i>Camb</i> .	Sr. Lectr
Davie, G E, MA DLitt	Lectr.	Hamilton, Bernice M., MA PhD <i>Lond</i> .	Lectr
Stoothoff, R H, BA BPhil <i>Oxon</i>	Lectr.	Psychology	
2 Assts.		Drever, J, MA	Prof.
Philosophy, Moral, see also Psychol		Collins, Mary, MA BEd PhD, FBPas	Reader
Barnes, W H F., MA <i>Oxon</i>	Prof.	McMahon, D, MA <i>Durh</i>	Sr. Lectr.
Bedford, E., BA <i>Lond</i> .	Sr Lectr	Semeonoff, B, MA BEd PhD, FBPas	Sr. Lectr.
Broadie, F., MA PhD	Lectr	McKenzie, R M, MA	Lectr
Ardal, P. S., MA PhD	Lectr	Cookson, Joyce, MA	Lectr.
Eveling, H. S., BA <i>Durh</i> , BPhil <i>Oxon</i> .	Lectr.	Donaldson, Margaret C, MA BEd PhD	Lectr.
Harrison, J., MA <i>Oxon</i>	Lectr	Hunter, I. M L, BSc DPhil <i>Oxon</i> .	Lectr.
4 Assts.		Lakowski, R, MA	Lectr.
Philosophy, Natural		6 Assts	
Feather, N., BA PhD <i>Camb</i> ., BSc <i>Lond</i> , FRS	Prof	Russian	
Kemmer, N, DrPhil <i>Zur.</i> , MA, FRS	Tait Prof.	Ward, D., BA <i>Camb</i> .	Reader
Paton, J, MA BSc	Reader	Greene, Mrs Milusa, Maglur <i>Riga</i> , PhD	Lectr.
Ross, Marion A S, MA PhD	Reader	Vosncensky, Miss E., BA <i>Nott</i>	Lectr
Evans, G. R., MSc PhD	Sr Lectr	Sanskrit and Comparative Philology	
Sutton, H C., MSc N Z, PhD <i>Durh</i>	Sr Lectr	.. .	Regius Prof.
Brown, A. F., MA PhD, FIP	Sr Lectr	Warder, A. K., BA PhD <i>Lond</i>	Lectr.
Semitic Languages, see Hebrew			

Social Study

Brown, Marjorie A, MA
 Burns, T., BA *Brist*
 Gregor, Mary J F, BSc PhD
 Browne, Margaret, MBE, BA *Lond*
 Richmond, A H, MA BSc
 Loughton, Vivienne O.
 Craig, Hewan, BA *McG*, BLitt *Oxon*
 Sinclair, Mrs Susan, MA
 2 Assts

Statistics, see *Maths*.

Technology, Chemical

Calderbank, P H, BSc PhD *Lond*
 Wilson, D. M., BSc PhD *Glas*
 Macleod, N., BSc PhD *Lond*
 Jackson, R, MA *Camb*

Theology, see *Div*

Turkish

Walsh, J R, BA *Lond*.

Veterinary Studies, see below

Zoology, see *Nat Hist*

AGRICULTURE AND FORESTRY**Agricultural Bacteriology**

Gibson, T, DSc Lectr

Agricultural Chemistry

Smith, A. M, PhD DSc, FRIC Lectr.

Agriculture and Forest Entomology

McHardy, J. W, BSc Sr Lectr.
 Guild, W J., PhD *Lond*, BSc Lectr.

Agriculture and Rural Economy

Watson, S J, CBE, DSc *Durh*, FRIC Prof.
 Knox, M. A., DipAgric *Oxon.*, BSc Sr Lectr.
 Cunningham, J M M, BSc Lectr.
 Hayes, S F, BSc, FLS Lectr.
 Holmes, J. C, BSc MS *Iowa* Lectr.
 Runce, K. V, BSc MS *Corn.* Lectr.
 Harkins, J, BSc MA Lectr.
 Nash, M J, MSc PhD Lectr.
 Manson, J M, BSc Lectr.
 Thow, R. F., MSc Lectr.
 1 Asst.

Animal Genetics

Waddington, C. H, CBE, MA ScD *Camb*, DSc, FRS Prof.
 Auerbach, Charlotte, PhD DSc, FRS Reader
 Beale, G. H, MBE, BSc PhD *Lond*, FRS
 Woolf, B, MA PhD *Camb*. Sr Lectr.
 Clayton, Ruth M, BA *Oxon*. Lectr.
 Maule, J P, MA *Camb*. Lectr.

Selman, G. G, BSc PhD Lectr.
 Kacser, H, MSc PhD Lectr.
 Clayton, G A, BSc PhD Lectr.
 Bishop, J O, BSc PhD Lectr.
 Gillie, O, BSc Lectr.
 3 Assts

Forestry, see also *Agric* and *For Entomol*

Anderson, M L., MC, MA *Oxon.*, DSc Prof.
 Harrison, J L Lectr.
 Fairbairn, W., DSc Lectr.
 Mutch, W. E S, BSc PhD Lectr.
 Taylor, C J, MBE, ED, BSc PhD Lectr.
 Gifford, D R, BSc Lectr.
 Cousens, J E, BA *Camb*, MA *Oxon*. Lectr.
 Caborn, J M, BSc PhD Lectr.
 Malcolm, D C, BSc Lectr.

DENTISTRY**Conservative Dental Surgery**

Murdoch, R. A. F, MBE †Lectr.
 MacKellap, G MacK †Lectr.

Dental Anatomy and Histology

Kemball, C. H., DDS *Penn* Sr. Lectr.
 Paterson, J K Lectr.

Dental Mechanics and Prosthetics

Watt, D. M., PhD Sr. Lectr.
 Geddes, M. Lectr.
 Macgregor, A. R. Lectr.
 Geissler, P R., BDS Lectr.

Dental Surgery

Boyes, J., FRCSEd, FDSRCSed, FDSRCS Prof.
 Dixon, D A, FDSRCS Lectr.

Dental Surgery and Pathology and Dental Radiology

Bradshaw, A R Lectr.
 Main, J H P, BDS Lectr.

Extractions under General Anaesthesia

Dyce, P J. B Sr. Lectr.
 Rose, G M Sr Lectr.

Local Anaesthetics

Duvall, A. E Lectr.

Operative Dental Surgery

Baxendine, W P., OBE Sr Lectr.
 Chapman, C E Lectr.
 Waterston, W. Lectr.
 McGibbon, D M., LDS Lectr.

Orthodontics

Hopkin, G. B Sr Lectr.
 Dixon, D A., FDSRCS Lectr.

Periodontal Diseases		Maccabe, A. F., MD DPH	Hon Lectr
Beagrie, G. S.	Sr Lectr.	Wallace, A. T., MD DPH	Hon Lectr
Preventive Dentistry		Coghlan, Mrs Joyce D., BSc PhD	Lectr
Wallis, C. P., BSc LDS	Lectr	Wilkinson, J. F., MA PhD <i>Camb</i>	Lectr.
LAW		Durie, T. B. M., MB ChB	Lectr
Administrative Law		Tonkin, R. W., MB ChB	Lectr
McLarty, M. R., QC, MA <i>Camb.</i>	Lectr.	Collee, J. G., MB ChB	Lectr.
Stout, C. H., BCom PhD	Lectr	Robertson, M. H., MB ChB	Lectr
† Asst.		McWilliam, Joan M., MB ChB DPH	Lectr
Civil Law		Sleigh, J. D., MB ChB	Lectr
Smith, T. B., QC, MA DCL <i>Oxon</i> ,		Davies, B. I., MB BS <i>Lond.</i>	Lectr
Hon LLD <i>Cape T</i> , FBA		Brown, P. P., MD	Lectr.
Topping, M. R., MA LLB <i>Glas</i>		Weir, D. M., MB ChB	Lectr
† Asst.		Chemistry, Clinical	
Constitutional Law, see Hist		Stewart, C. P., DSc <i>Durh</i> , PhD	Reader
Conveyancing		Tompsett, S. L., BSc <i>Lond</i> , PhD DSc	
Henry, G. L. F., BL	Prof	<i>Glas.</i> , FRIC	Sr. Lectr.
Cameron, J. G. S., MA LLB	Lectr	Easson, L. H., BSc PhD	Sr. Lectr.
† Asst		Frazer, S. C., MB ChB BSc PhD	Sr Lectr.
Evidence and Pleading		Crombie, J. D., BSc MB ChB DPH	Lectr
Dickson, W. F., MA LLB	† Lectr	Kapeller-Adler, Regina, PhD <i>Vienne</i> , DSc	Lectr
Industrial Law		Albert-Recht, F., MB ChB	Lectr
Wylie, N. R., BA <i>Oxon</i> , LLB	Lectr	Thomson, C. G., BSc PhD	Lectr
International Relations		Leask, R. G. S., BSc MB ChB	Lectr
Cslder, P. R., CBE	Montague Burton Prof	Scandrett, F. J., PhD	Lectr
Public Law		† Asst	
Campbell, A. H., BCL <i>Oxon.</i> , LL.M.	Regius Prof.	Child Life and Health, see also Clin.	
Burm, MA <i>Oxon</i> & <i>Edin</i>		Teaching Staff, below	
Cameron, J. T., BA <i>Oxon</i> , LLB	Lectr.	Ellis, R. W. B., OBE, MA MD <i>Camb</i> ,	Prof
Scots Law		FRCPed, FRCP	
Montgomery, G. A., QC, MA LLB <i>Glas</i>	Prof	Tait, H. F., MD DPH, FRCPed	Hon Sr Lectr.
Paton, G. C. H., MA LLB	Sr Lectr	(Preventive Pediatrics)	
Shields, J. V. M., CBE, QC, MA LLB		Forfar, J. O., MC, BSc MD <i>St And</i> ,	Hon Sr Lectr
Maxwell, D., QC, MA LLB		FRCPed, MRCP	Hon Sr Lectr
Taylor, R. R., MA LLB PhD <i>Glas</i>		Farquhar, J. W., MD, FRCPed	Sr Lectr
Wilson, W. A., MA LLB <i>Glas</i>		Thomson, J., MD DPH	Lectr
Bennett, R. A., MA LLB		Methven, Margaret, MB ChB MA	Hon Sr Lectr.
4 Assts		Watson, W. N. B., MB ChB	Hon. Sr Lectr.
MEDICINE		Ingram, T. T. S., MB ChB, MRCPed	Lectr
(for subs. of the first 2 yrs.—Anat, etc,		Drillen, C. Mary, MD	Lectr.
see above)		Isles, T. E., BSc	Lectr.
Bacteriology		Dermatology	
Cruckshank, R., MD <i>Aberd.</i> , DPH		Percival, G. H., DPH <i>Edin</i> & <i>Glas</i> ,	
<i>Edin</i> & <i>Glas</i> , FRCP	R Irvine Prof	MD PhD, FRCPed	Prof
Swain, R. H. A., MA MD <i>Camb.</i>	Reader	Hannay, P. W., MB ChB, FRCPed	Lectr
Duguid, J. F., BSc MD	Reader	Eye, Diseases of the, see Clin. Teaching Staff, below	
Bowie, J. H., MB ChB, FRCPed	Sr. Lectr.	Forensic Medicine	
Gillies, R. R., MD DPH	Sr Lectr.	Fiddes, F. S., OBE, MD	Prof
Gould, J. C., BSc MD	Sr. Lectr	Street, H. V., MSc <i>Birm.</i> , FRIC	Sr. Lectr.
General Practice Teaching Unit		General Practice Teaching Unit	
		Scott, R., MD DPH	Reader
		MacLean, D. W., MB ChB	Lectr.
		McVic, D. H., MB ChB	Lectr.

Peterson, J. E., MA
 McLaren, A. C., TD, MB ChB
 Stokoe, I. H., MD, MRCP
 Walker, J., MD
 Lamont, L., MA MB ChB *Glas*
 Lipetz, S., MD
 Thomson, W. P
 Gibbs, Constance A., MB ChB
 Donald, A. G., MA MB ChB
 Gaskell, P. G., MB ChB

Lectr.
 †Lectr.
 †Lectr.
 Lectr.
 †Lectr.
 Lectr.
 †Lectr.
 Lectr.

Medicine, Clinical, see Clin. Teaching Staff, below

Mental Diseases, see Psychol. Med.

Neurological Surgery

Dott, N. M., CBE, MB ChB, FRCSEd Prof
 Gillingham, F. J., MBE, MB BS *Lond*,
 FRCSEd, FRCS Sr. Lectr

Neurology, Clinical

Slater, J. K., OBE, MD, FRCPEd Lectr.

Gynaecology, see Obstet. and Gynaecol.

Infectious Diseases

Murdoch, J. M., FRFPGS Glas Sr. Lectr

Laryngology, Otology and Rhinology
 see Clin. Teaching Staff, below

Materna Medica

Perry, W. L. M., OBE, DSc MD *St And* Prof.
 Adam, H., MB ChB Reader
 Brocklehurst, W. E., BPharm BSc
 PhD *Lond*. Sr. Lectr
 Crawford, T. B. B., BSc PhD Lectr.
 Stephenson, R. P., BSc *Birm & Oxon* Lectr.
 Barlow, R. B., MA BSc DPhil *Oxon*. Lectr.
 Loraine, J. A., MB ChB PhD DSc, FRCPEd
 Hon. Lectr

Medicine, see also Clin. Teaching Staff, below

Donald, K. W., DSC, DSc *Birm*, MA
 MD *Camb.*, FRCP Prof.
 Gilchrist, A. R., CBE, MD, FRCP, FRCPEd
 (Clin. Cardiol.) Reader
 Card, W. I., MD *Lond*, FRCPEd, FRCP

Girdwood, R. H., MD PhD, FRCPEd, Reader
 FRCP
 Turner, R. W. D., OBE, MA MD *Camb*,
 FRCPEd, FRCP Sr. Lectr.
 Duthie, J. J. R., MB ChB *Aberd.*
 (Rheumatol.) Sr. Lectr

French, E. B., BA MB BChir *Camb*. Sr. Lectr
 Strong, J. A., MBE, BA MB BCh
 BAO *Dub*, FRCPEd, MRCP Sr. Lectr

Simpson, J. A., MB ChB *Glas.*, MRCP,
 FRFPGS Glas Sr. Lectr.

Innes, J., MD, FRCPEd Lectr.
 MacLeod, J. G., MB ChB, FRCPEd Lectr.
 Sinclair, R. J. G., FRCPEd Lectr.
 Richmond, J., MB ChB, MRCP Lectr.
 Marquis, R. M., MBE, MB ChB,
 FRCPEd Lectr.

Sircus, W., PhD *Sheff.*, MD *Law*,
 MRCP Lectr.

Matthews, M. B., MD, MRCP Lectr.
 Sutherland, G. R., MB ChB, MRCPed Lectr.

Stanton, J. B., MA MB BChir *Camb*,
 DPM *Lond*, MRCP Lectr.

Taylor, S. H., BSc MB ChB Lectr.
 Oliver, M. F., MD, FRCPEd †Sr. Lectr.

2 Assts.

Obstetrics and Gynaecology, see also Clin

Teaching Staff, below

Kellar, R. J., MBE, MB ChB, FRCSEd,
 FRCPEd, FRCOG Prof
 Matthew, G. D., MB ChB, FRCSEd,
 FRCOG Reader

Anderson, A. F., BSc MB ChB, FRCSEd,
 FRCOG Lectr.

MacGregor, T. N., MD, FRCSEd, FRCOG
 (Gynaecol. Endocrinol.) Lectr

Kennedy, C. D., MB ChB, FRCSEd,
 FRCOG Lectr.

Irvine, D. J. M., MB ChB †Lectr.

Dunlop, J. C. H., BA BM BCh *Oxon*. Hon. Lectr

Myerscough, P. R., MB ChB, FRCSEd Lectr.

Loudon, J. D. O., MB ChB, FRCSEd †Lectr.

Ophthalmology

Scott, G. I., MA MB ChB, FRCSEd Prof
 Stokoe, N. L., MB ChB, FRCSEd,
 FRACS Hon. Sr. Lectr.

Orthopaedic Surgery

James, J. I. P., MB MS *Lond*, FRCS Prof.
 Savill, D. L., MB ChB, FRCSEd †Lectr.

Dick, I. L., MD ChM, FRCSEd †Lectr.

Mitchell, G. P., MC, MB ChB, FRCSEd

†Lectr

Chalmers, J., MB ChB, FRCS Lectr.

Pathology, see also Anat. and Bacteriol.

Montgomery, G. L., TD, PhD *St And*,
 MD *Glas*, FRFPGS Glas Prof.

Ogilvie, R. F., MD DSc, FRCPEd Reader
 Williams, A. W., DCP *Lond*, MD PhD

Sr. Lectr

Maloney, A. F. J., BSc MB ChB,
 FRCPEd Sr. Lectr.

Davidson, J., MB ChB, FRCPEd Sr. Lectr.

Shivas, A. A., MD DPH Sr. Lectr.

MacDonald, Mary K., MB ChB, MRCPed

Lectr.

McGregor, J. D., MB ChB Lectr.

Barrett, J. S., MC, MB ChB Lectr.

Gardner, D. L., MA PhD *Camb*, MD,
 MRCPEd Lectr.

Nagle, R. S., MB ChB DTM&H Lectr.

Hunt, W. E., MA BM BCh *Oxon* Lectr.

Smith, I. I., MB ChB
 Black, J. W., MB ChB
 Yates, P. A., MSc *Manc.*, MB ChB
 Harcourt-Webster, J. N., MA MB BChir
Camb
 Turner, J. H., BSc MB ChB
 Smith, M. B., MB ChB

Lectr Cameron, J. R., FRCSed Lectr.
 Lectr McNair, T. J., MB ChB, FRCSed, FRCS
 Lectr †Sr Lectr

Michie, D., MA DPhil *Oxon.*
 (Surg Sci) Sr Lectr
 Howard, J. G., MD PhD *Lond*
 (Surg Sci) Sr Lectr
 Sinclair, I. S. R., MB ChB, FRCSed Sr Lectr
 Macpherson, A. I. S., MB ChM, FRCSed

Lectr.
 Smith, A. N., MD *Glas.*, FRCSed Lectr.
 Falconer, C. W. A., MB ChB, FRCSed Lectr.
 Nolan, B., MB ChB FRCS, FRCSed
 (Surg Sci) Lectr.
 Thomson, J. W. W., FRCS Lectr

Therapeutics

Dunlop, Sir Derrick M., BA *Oxon*, MD,
 FRCPed, FRCP Prof.
 Robson, J. S., MD, MRCPed Reader
 Duncan, L. J. P., BSc MB ChB, MRCPed Lectr
 Lambie, Anne T., MB ChB, MRCP Lectr

Tropical Climates, Diseases of

Wright, F. J., MA MD *Camb.*, FRCPed,
 FRCP Sr. Lectr.

Tuberculosis

Crofton, J. W., MD BChir MA *Camb.*,
 FRCP, FRCPed Prof.
 Horne, N. W., MB ChB, FRCPed Hon. Lectr
 Ross, J. D., MPH *Johns H.*, MB ChB,
 FRCPed Hon. Lectr
 † Asst.

Venereal Diseases

Lees, R., MD, FRCPed Lectr
 Murrell, Marjory, MB BS *Lond.* Asst.

CLINICAL TEACHING STAFF

ROYAL INFIRMARY—

Clinical Surgery

Surgeons

Bruce, Prof. J., CBE, MB ChB, FRCSed
 Woodruff, Prof. M. F. A., BEE MD MS *Melb.*
 FRCSed, FRCS, FRACS
 Adamson, W. A. D., MB ChB, FRCSed
 Macpherson, A. I. S., MB ChM, FRCSed
 Cameron, J. R., FRCSed
 Farquharson, E. L., MD, FRCSed, FRCS
 Jeffrey, J. S., MA MD, FRCSed
 Wilson, T. I., MB ChB, FRCSed
 Porter, H. W., MB ChB, FRCSed
 Sinclair, I. S. R., MB ChB, FRCSed
 McIntosh, D., MD, FRCS, FRCSed

Thoracic Surgery

Logan, A., MA MB ChB, FRCSed, FRCS
 Wade, J. D., MA MB BChir *Camb.*, FRCSed,
 FRCS
 McCormack, R. J. M., MB ChB, FRCSed

Psychological Medicine

Carstairs, G. M., DPM *Lond.*, MA MD,
 FRCPed Prof.
 Fish, F. J., MB BS DPM *Lond.*, MRCP
 Sr Lectr
 Smythies, J. R., MA MD *Camb.*, MSc *Camb.*
 & Br Col, DPM *Lond.*, MRCP Sr Lectr
 Drewary, J., MA Lectr
 Fawcett, P. G., MB BS *Durh.*, DPH Lectr
 Oswald, I., MA MD Lectr
 Kiernan, W. E. S., MB BCh BAO *Belf.*,
 MRCPed Lectr

Public Health and Social Medicine

Brotherston, J. H. F., DrPH *Johns H.*,
 DPH *Lond.*, MA MD, FRCPed Prof.
 Douglas, J. W. B., BA BSc BM
 BCh *Oxon* Reader
 Seiler, H. E., MD *Glas.*, DPH *Camb.*,
 FRCPed Sr Lectr
 Hobson, B. M., BSc *Aberd.*, PhD Sr Lectr.
 Mansbridge, J. N., PhD Sr Lectr
 Martin, F. M., BA PhD *Lond.* Sr Lectr
 Sklaroff, S. A., BSc Lectr
 Mills, A. R., DPH DTM&H Lectr
 Cameron, D., MB ChB DPH Lectr
 Gilloran, J. L., MB ChB *Glas.*, DPH *Liv.* Lectr
 Kinnaird, J., MA BL, CA Lectr
 Mair, J. M., MB ChB DPH Lectr
 Robinson, Col. J. E. C. Lectr.
 Peters, R. J., MD DPH, FRCP Lectr.
 Smith, E. A., PhD DPH †Sr. Lectr

Radiodiagnosis

Samuel, E., BSc *Wales*, MD *Lond.*, DMRE
Camb., MRCPed, FRCS, FRCSed,
 FFR Hon Reader

Radiology

McWhirter, R., MB ChB *Glas.*, DMRE *Camb.*,
 FRCSed, FFR Prof

Surgery, see also Clin Teaching Staff, below

Bruce, J., CBE, MB ChB, FRCSed
 (Clin. S) Prof
 Woodruff, M. F. A., BEE MD MS *Melb.*,
 FRCSed, FRCS, FRACS
 (Surg. Sci.) Prof
 Band, D., MB ChB, FRCSed
 (Urological S) Reader
 Wallace, A. B., MSc *McG.*, MB ChB,
 FRCSed (Plastic S) Reader
 Brown, J. J. M., OBE, MB ChB, FRCSed
 (Paediatric S) Reader
 Logan, A., MA MB ChB *St And.*, FRCSed,
 FRCS (Thoracic S) Reader

Walbaum, P. R., MB ChB, FRCS
Le Roux, B. T., MB ChB, FRCSEd

Orthopaedic Surgery

James, Prof. J. I. P., MB MS *Lond*, FRCS
Duck, I. L., MD ChM, FRCSEd
Savill, D. L., MB ChB, FRCSEd
Mitchell, G. P., MC, MB ChB, FRCSEd
Lamb, D. W., MB ChB, FRCSEd

Neurological Surgery

Dott, Prof. N. M., CBE, MB ChB, FRCSEd
Harris, P., FRCSEd, FRCPEd
Gillingham, F. J., MBE, MB BS, FRCSEd, FRCS

Clinical Medicine

Physicians-in-Charge

Dunlop, Prof. Sir Derrick M., BA *Oxon.*, MD,
FRCPEd, FRCP
Donald, Prof. K. W., DSC, DSc *Birm.*, MA
MD *Camb.*, FRCP
Güfchriat, A. R., MD, FRCP, FRCPEd
Todd, T. R. R., MD, FRCPEd
Slater, J. K., OBE, MD, FRCPEd
Cameron, J. D. S., CBE, TD, MD, FRCPEd,
MRCP
Lyon, R. M. M., MD, FRCPEd

Physicians

Lamb, W. L., TD, MB ChB, FRCPEd
Hamilton, J. G. M., MB ChB, FRCPEd
Croom, J. H., BA *Camb.*, MB ChB, FRCPEd
Robertson, C. K., MD, FRCPEd
Batty, D. M. F., MB ChB, FRCPEd
Innes, J., MD, FRCPEd
Matthew, H. J. S., MB ChB, FRCPEd
Marquis, R. M., MBE, MB ChB, MRCPEd
Matthews, J. D., BA *Camb.*, MB ChB, MRCPEd

Associate Physicians

Girdwood, R. H., MD PhD, FRCP, FRCPEd
Robson, J. S., MD, MRCPEd

Clinical Obstetrics and Clinical Gynaecology

Obstetricians and Gynaecologists-in-Charge

Kellar, Prof. R. J., MBE, MB ChB, FRCSEd,
FRCPEd, FRCOG
Sturrock, J., MB ChB, FRCSEd, FRCOG
Kennedy, C. D., MB ChB, FRCSEd, FRCOG

Obstetricians and Gynaecologists

Luston, W. A., MB ChB, FRCSEd
Matthew, G. D., MB ChB, FRCSEd, FRCOG
Callam, W. D. A., MB ChB, FRCSEd
Irvine, D. J. M., MB ChB
Myerscough, P. R., MB ChB, FRCSEd
Pearson, J. G., MB ChB *Leeds*, FRCS, FFR

Ophthalmology

Surgeons-in-Charge

Scott, Prof. G. I., MA MB ChB, FRCSEd
Paterson, J. R., MB ChB, FRCSEd

Surgeons

Macaskill, J., MB ChB, FRCSEd
Jackson, C. R. S., MA BM BCh *Oxon.*, FRCSEd
Bembridge, B. A., MD

Ear, Nose and Throat

Surgeons-in-Charge

Stewart, J. P., MD, FRCSEd

Surgeons

Smith, A. B., MD DPH *Glas.*, FRCS
Farquharson, I. M., MB ChB, FRCSEd
Lumsden, R. B., TD, MB ChB, FRCSEd
McDowall, G. D., MB ChB, FRCSEd

Dermatology

Physicians-in-Charge

Percival, Prof. G. H., DPH *Edin. & Glas.*, MD
PhD, FRCPEd
Peterkin, G. A. G., MBE, MB ChB, FRCPEd
Physician
Hannay, P. W., MB ChB, FRCPEd

Anæsthetics

Robertson, J. D., MD, FRCPEd, FFARCS

ROYAL HOSPITAL FOR SICK CHILDREN—

Pædiatricians-in-Charge

Ellis, Prof. R. W. B., OBE, MA MD *Camb.*,
FRCP, FRCPEd
Nicholson, D. N., TD, MB ChB, FRCPEd
Dott, E. F., MB ChB DPH, FRCPEd

Pædiatricians

Miller, R. A., MA PhD MD, FRCPEd
Douglas, D. M., MD BS *Lond.*, MRCP

Surgeon-in-Charge

Brown, J. J. M., OBE, MB ChB, FRCSEd

Surgeons

Mackay, Rosamund M. I., MB BS *Lond.*,
FRCSEd
Roberts, F. H., MB ChB, FRCSEd

Ear, Nose and Throat

... Surgeon-in-Charge
Birrell, J. F., MD, FRCSEd Surgeon

Plastic Surgery

Wallace, A. B., MSc *McG.*, MB ChB,
FRCSEd Surgeon

WESTERN, NORTHERN AND EASTERN GENERAL HOSPITALS

Medical Unit

Physicians-in-Charge

Turner, R. W. D., OBE, MA MD *Camb.*, FRCP,
FRCPEd
Card, W. I., MD *Lond.*, FRCPEd, FRCP
Duthie, J. J. R., MB ChB *Aberd.*, FRCPEd

Simpson, J. A., MB ChB *Glas*, MRCP,
FRFPGlas
Bruce, J. A., MB ChB, FRCPEd
Wright, F. J., MA MD *Camb.*, FRCPEd, FRCP
Physicians
Sclater, J. G., BSc MB ChB, FRCPEd
Streng, J. A., MBE, BA MB BCh BAO *Dub*,
MRCP
MacLeod, J. G., MB ChB, FRCPEd
Sinclair, R. J. G., FRCPEd
Stanton, J. B., MA MB BChir *Camb*, DPM
Lon, MRCP
Sircus, W., MD *Lev.*, PhD *Sheff & Edn*, MRCP
Matthews, M. B., MA MD, MRCP
French, E. B., BA MB BChir *Camb.*, MRCP
Grant, I. W. B., MB ChB, FRCPEd

Surgical Unit

Surgeons

Band, D., MB ChB, FRCSEd
Falconer, C. W. A., MB ChB, FRCSEd
Ross, J. A., MBE, MD, FRCSEd
McNair, T. J., MB ChB, FRCS, FRCSEd
Tulloch, W. S., MB ChB, FRCSEd
Small, W. P., MB ChB, FRCSEd, MRCP
Smith, A. N., MD *Glas.*, FRCSEd

Obstetrics and Gynaecology Unit

Obstetricians and Gynaecologists-in-Charge

Laston, W. A., MC, TD, BA *Camb.*, MB ChB,
FRCSEd, FRCPEd, FRCOG
Matthew, G. D., MB ChB, FRCSEd, FRCOG
MacGregor, T. N., MD, FRCSEd, FRCOG
Anderson, A. F., BSc MB ChB, FRCSEd,
FRCOG
Myerscough, P. R., MB ChB, FRCSEd
Pearson, J. G., MB ChB *Leeds*, FRCS, FFR

Pædiatrics

Pediatrician-in-Charge

Forfar, J. O., MC, BSc MB ChB *St And.*,
FRCPEd, MRCP

Surgeons

Brown, J. J. M., OBE, MB ChB, FRCSEd
Kirkland, I. S., MB ChB, FRCSEd

ROYAL (DICK) SCHOOL OF VETERINARY STUDIES

Veterinary Anatomy

Grahame, T., TD, FRCVS	Reader
Taylor, J. A., FRCVS	Sr Lectr
Morris, P. G. D., MA	Lectr
Speed, J. G.	Lectr
Stokoe, W. M., BSc PhD	Lectr.

Veterinary Bacteriology

Taylor, A. W., PhD DSc	Sr Lectr
Phillips, J. E., BSc	Lectr
Fraser, G., BSc PhD	Lectr.

Veterinary Hygiene

Robertson, A., MA BSc PhD, FRIC	Prof
Chalmers, A.	Sr Lectr.
Ferguson, G. S., BSc DVSM	Sr. Lectr.
Moodie, E. W., BSc PhD	Sr. Lectr.
Feyer, H., BSc PhD	Lectr.
Robertson, I. S., BSc PhD	Lectr.
Wilson, J. E., BSc	†Lectr
Maule, J. P., MA DipAgric <i>Camb.</i> , AICAT	†Lectr
Graham-Marr, T., BSc	Lectr
Barden, P. J., BVSc	Lectr

Veterinary Jurisprudence

Mackenzie-Stuart, A. J., BA <i>Oxon.</i> , LLB	Lectr.
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Veterinary Medicine

Boddie, G. F., BSc	Prof.
McPherson, E. A., MSc	Sr Lectr.
Gregor, W. W.	Lectr.
McTaggart, H. S., BA BSc	Lectr.

Veterinary Pathology

Beattie, I. S., BSc	Sr Lectr
Head, K. W., BSc	Lectr.
Whitney, J. C.	Lectr.
Gellatly, J. B. M., BSc	Lectr
Rowland, A. C., BSc	Lectr.

Veterinary Pharmacology

Alexander, F., PhD DSc	Reader
Bartlet, A. L., BPharm PhD	Lectr.

Veterinary Physiology

Elliot, F. J., MSc PhD, FRIC	Sr. Lectr.
Lundy, H., BSc	Lectr

Veterinary Practice Teaching Unit

MacLennan, W.	Sr Lectr
Withers, A. R., BSc	Sr. Lectr.
Mitchell, A. W.	Lectr.
Davidson, C. B.	Lectr

Veterinary Surgery

Spreull, J. S. A., PhD	Prof.
Burgess, J. W.	Sr Lectr.
Fraser, J. A., BSc	Lectr
Wilson, J. C., BSc	Lectr
Mitchell, B., BVM&S	Lectr.

GIFFORD LECTURER IN NATURAL THEOLOGY (held for 2 yrs)

1962-63—D. Daube

EXTRA-MURAL STUDIES

Hossack, J., MA BCom	Dir.
Barclay, J. B., MA	Asst. Dir.
McNee, Mrs Charlotte R., MA	Lectr.
Chisholm, J., MA	Tutor-Organizer

ADMINISTRATIVE AND OTHER STAFF

UNIVERSITY OFFICE Asst Secs: L. D. Macmillan, BL; J. Macpherson, DFC, MA LLB; R. Maxwell Young, TD, BL, P. McIntyre, MA

SR ADMINISTRATIVE OFFICERS. Fac of Arts, J. M. MacFarlane, MA *Aberd.*, BLitt *Oxon.*, Fac. of Med, D. H. Wood, MA; Fac. of Sci, M. Robson, BSc

ASSISTANT ACCOUNTANT. D. I. Cameron, BL *Glas.*, CA

UNIVERSITY LIBRARY Dep Librarian, J. C. Corson, MA PhD Keeper of Manuscripts, C. P. Finlayson, MA

UNIVERSITY CHAPLAIN Rev. J. C. Blackie, STM *U.T.S. (N.Y.)*, BD.

DIRECTOR OF STUDENT ACCOMMODATION AND WELFARE OFFICE Diana C. Matchett.

DIRECTOR OF PHYSICAL EDUCATION. L. E. Laddell, BA *Leeds*

UNIVERSITY ORGANIST H. Bunney, BMus, FRCO

MASTER OF WORKS. J. Hamilton

WARDENS OF HALLS OF RESIDENCE Cowan House, C. A. Lyall, BSc, Salisbury Green, Mrs. Charlotte L. Lindsay, Masson Hall, Elizabeth L. Carrick, BSc, Muir Hall, Margaret Crosland, MA *Camb.*, St. Leonard's House, Mrs. Margaret Macdonald, Univ. Settlement, Craigmillar Park Hostels, M. B. Fergusson, MA, Holland House, D. Bullough, MA *Oxon.*; Jeffrey House, D. Wagg, MA *Birm.*

CONSTITUENT COLLEGE

NEW COLLEGE, The Mound, Edinburgh (tel. Caledonian 4272) Founded in 1846 by the Free Church of Scotland from 1900 a Divinity Hall of the United Free Church of Scotland, and from 1929 of the reunited Church of Scotland in union with the Divinity Hall of the Church of Scotland as previously constituted by the Univ. fac. of div., the seat of the fac. of div. in the Univ. as enlarged after 1929, owned and maintained by the Church of Scotland, and accommodating the ordinary and

the postgrad. courses in theol. Principal and Dean of Fac., Very Rev. Prof. J. H. S. Burleigh, BLitt *Oxon.*, DD *Aberd.*, MA BD; Sec., Rev. Prof. N. W. Porteous, MA DD *Staff* the Profs. and Lectrs, see p. 1234 Librarian: Rev. J. A. Lamb, PhD (over 100,000 vols. in the collection) CHRISTIAN SOCIOLOGY Rev. W. S. Tindal, OBE, MA DD *Glas.*, Warden of New College Settlement EDUCATION. Miss Balfour Brown

AFFILIATED COLLEGE

HERIOT-WATT COLLEGE, Chambers St., Edinburgh, 1 (tel. Caledonian 7121) Founded as sch. of arts, 1821, present title adopted, 1885 Affiliated to the Univ. of Edinburgh, 1933. Chairman of governors, the lord provost of Edinburgh *Principal*, H. B. Nisbet, PhD DSc *Edin.*, FRIC The coll. provides instruction in day and evg classes for those following or proposing to follow technical careers in civil engin., mech. engin., electr. engin., mining engin., appl. chem., chem. engin., maths., phys., brewing, biochem., pharmacy, bldg. and printing. Evg. courses are also provided in management studies, comm. and langs. Spec. courses arranged for res. students Degree courses for BSc of Edinburgh Univ. in mining engin. and in chem. technol. Associateships for full-time day study in civil engin., mech. engin., electr. engin., mining engin., appl. chem., chem. engin., brewing and appl. biochem., appl. pharmacy, appl. phys., appl. maths. and bldg. Cert. courses in brewing, pharmacy and printing; commercial teachers' dipl. course. Mine rescue str. available for instruction of day students The coll. is authorized by the Home Office to grant certs. to mine firemen, exams being arranged at various centres in the Lothians, Fife and Clackmannan.

Entrance exams. in June and Sept. Exemption granted to students who hold the leaving cert. of the Scottish Educn. Dept., or have passed the Scottish univs. prelim. exam., or satisfy the principal as to the adequacy of their general educn.

Students holding a degree in pure or appl. sci. of a recog. univ. or the Heriot-Watt Coll. associateship or a similar qualif. of another technical coll. may be admitted for spec. study for the coll. fellowship.

Fees Entrance exam., £1. 1s Admission direct to 2nd or 3rd yr. courses, 30s Matric fee for each session, degree, see p. 1247; dipl. and cert., £1. 10s for full-time students; others, 10s Tuition fees brewing, engin., mech., civil or electr. engin., mining engin., appl. chem., chem. engin., £50 p.a.; appl. pharm., appl. phys., appl. maths., tech. biochem., bldg., £50 p.a. Tuition fees for cert. courses pharm., brewing, £50 p.a., printing, £43. 15s p.a.; commercial teachers' dipl., £45 p.a.

STAFF CHEM., Prof. F. Bell, PhD DSc *Lond.*, FRIC; 1 Principal Lectr., 2 Sr. Lectrs., 7 Lectrs. CHEM. ENGIN., Prof. P. H. Calderbank, BSc PhD *Lond.*; 1 Sr. Lectr., 4 Lectrs. BREWING & APPL. BIOCHEM., Prof. I. A. Preece, PhD DSc *Birm.*

FRIC, 3 Lectrs ENGIN., ELECTR., Prof M G Say, DIC, PhD MSc Lond., Asst Prof E. O Taylor, DIC, BSc Lond., 1 Principal Lectr, 1 Sr Lectr, 4 Lectrs ENGIN., MECH., Prof W G Green, BSc PhD Lond., Asst Prof W L Bride, MScTech BSc Manc, 2 Principal Lectrs, 1 Sr Lectr, 8 Lectrs ENGIN., MINING, Prof R McAdam, BSc PhD Edin., 1 Sr Lectr, 4 Lectrs. MATHS, Prof R Smart, MA St And., 1 Principal Lectr, 1 Sr Lectr, 5 Lectrs PHYS., Prof W H J Childs, DSc Lond., FIP, Asst Prof R.

Milligan, BSc, 6 Lectrs BLDG, N C Sidwell, MSc Lond., PhD Edin., 4 Lectrs PHARMACY, H H Campbell, BSc Edin., FRIC, 1 Sr Lectr, 5 Lectrs INDUST ADMIN, J Glog, BCom Lond., FCIS, 1 Sr Lectr, 5 Lectrs. PRINTING, F P Restall, 5 Lectrs. In addition, 183 visiting lecturers and instructors

Students (1960-61) 627 full-time day students, 671 pt-time day students and 2293 evg students 631 of the students were studying for univ or equivalent qualifs

ASSOCIATED COLLEGE

in which university courses are provided

THE EDINBURGH SCHOOL OF AGRICULTURE, The King's Buildings, West Mains Rd, Edinburgh, 9 (telegrams: Rural, Edinburgh, tel Newington 1041) Principal Prof S J Watson, CBE, DSc Duth, FRIC, Dirs of Studies L S Cobley, BSc, AICTA, S F Hayes, BSc AGRIC. & RURAL ECON, Prof S J Watson, Sr Lectr, M A Knox, DepAgric Oxon, BSc, Lectr., S F Hayes, BSc (Hortic Crops), J. M. M. Cunningham, BSc, K. V. Runcie, BSc MS Corn, J C Holmes, BSc MS Iowa, PhD, J Harkins, BSc, M J Nash, MSc PhD. AGRIC ECON. & FARM ACCOUNTING, Hd of Dept., J. D. Nutt, BA, and Assts. AGRIC. ENGIN., SURVEYING & BLDG. CONSTRUCTION, Hd of Dept., L. M. Walker, BSc; Lectrs, A. Hardie, BSc, M F. J. Hawker, MSc. BACTERIOL., Hd of Dept., T. Gibson, DSc; Lectr., A. J. Holding, MSc Wis, BSc PhD. BOT., Lectrs., L. S. Cobley, BSc, AICTA, P. C. Harper, BSc PhD, J H. Lennard, BSc PhD.

CHEM., Hd. of Dept., A. M. Smith, PhD DSc, FRIC; Lectrs., H. Tod, BSc PhD, P. McDonald, MSc PhD, R. A. Edwards, BSc, J. F. D. Gicnhalgh, MA Camb., MS Ill., PhD. FOR (Edin. Univ. for. dept.), Prof M L. Anderson, MC, MA Oxon., DSc, and Assts. HORRIC., Hd. of Dept., J. Bruce, Lectr., S F Hayes, BSc, Demr., P. N. Linton. VER. SCI (Royal (Dick) Sch of Vet Studies), Prof A. Robertson, MA BSc PhD, FRIC, and Assts. ZOOL., Lectrs., J. W. McHardy, BSc, E. Dunn, BSc, P. Osborne, BSc MS Calif., PhD 9 Specialist Advisory Officer Depts. (bot. and plant pathol., bacteriol., entomol., econ., chem., vet sci., farm bldgs., statistics, bee-keeping), with graduate staff of 37. Extension Staff. Regional Directors, G. A. Catto, BSc, A. K. M. Meiklejohn, BSc, and 46 Assts

Students (1960-61) 167 full-time students, of whom 47 were reading for univ qualifs, 77 univ. students for pt. instructn.; 120 evg students

GENERAL INFORMATION

The Univ of Edinburgh was originally 'the Town's College', founded in 1583 by the town council of Edinburgh, under general powers granted by a charter of King James VI, dated April 14, 1582. From the first the coll possessed the privilege of conferring degrees. This privilege was ratified by the 'act of confirmation', passed in 1621, which secured to the 'College of James VI' (as it had come to be called) all the rights, immunities and privileges enjoyed by the other univs of Scotland. Gradually, in acts of the general assembly, of the town council, and of parliament, the 'College of James VI' came to be styled 'the University of Edinburgh'; but it remained under the control and patronage of the town council until 1858, when, by the Universities (Scotland) Act, all the univs of Scotland received new and autonomous constitutions

Royal (Dick) Veterinary Coll., Summerhall, Edinburgh, 9 (tel.: Newington 6801, telegrams: Veter, Edinburgh) Founded 1823, became sch of vet studies within the univ., 1951 (see p 1243)

CONSTITUTION By the Universities (Scotland) Act, 1889, the univ court was constituted a body corporate, it administers the whole univ pro-

perty. The senatus academicus regulates teaching and discipline; the general council is empowered to make representations to the court on all questions affecting the univ's prosperity. The chancellor, elected by the general council for life, is pres of the general council and nominates an assessor in the univ. court. The vice-chancellor is nominated by the chancellor. The principal elected by the curators for life, is pres. of senatus, in the absence of the rector he presides at meetings of univ. court, and in the chancellor's and rector's absence, at statutory meetings of general council. The rector, elected by matriculated students for 3 yrs., is pres. of univ. court, and appoints an assessor to it. The court comprises rector, principal, lord provost of Edinburgh, assessor nominated by chancellor, by rector and by town council; 4 assessors elected by senatus and 4 by general council. The senatus comprises principal, profs, and certain readers and lectrs. The general council consists of chancellor, members of court, profs and grads. of univ, as well as readers and lectrs of at least 1 yr.'s standing

INCOME (1959-60). Total income, £2,681,980 (govt. grants, 75 5 per cent.; fees, 10 6 per cent.;

endowments, 28 per cent; other sources, 111 per cent)

FACULTIES AND DEANS *Arts*, Prof. D. Hay (hist.), *div.*, Very Rev Prof J. H. S. Burleigh (eccles. hist.), *law*, Prof. A. H. Campbell (pub. law), *med*, Prof. J. H. F. Brotherton (pub. health), *music*, Prof. S. T. M. Newman, *sci.*, Prof. E. L. Hirst (org. chem.).

There are 12 deans of studies in the fac. of arts, 8 in the fac. of sci. and 1 for those combining studies in the fac. of sci. and med.

UNIVERSITY PRECINCT In the central area of Edinburgh is the old coll., which contains the present univ. library, the univ. offices and, with adjacent bldgs., the facs. of arts and law and the dept. of phys. (The old coll. on the site of 'Kirk o' Field', the scene of the murder of Lord Darnley, was designed by Robert Adam and William Playfair, and completed in 1828). Close to this site lies the med. ach., in immediate proximity to the Royal Infirmary, with the univ. union and the Reid Sch. of Music. Immediately behind these bldgs. is George Sq., where work has already begun on a new arts bldg., and where the new univ. library and a fundamental sci. bldg. are also to be erected. Still in central Edinburgh, New Coll., which houses the univ.'s fac. of div., is situated on the Mound, overlooking Princes St. At West Mains, some 2 miles from George Sq., to the south, the King's Bldgs. provide a fine site for other depts. in the faculty of sci. The outlying depts. of bot. (at the Royal Botanic Garden) and forestry (in George Sq.) will shortly join the other sci. depts. at the King's Bldgs.

LIBRARY Founded in 1580; about 700,000 vols., 4000 MSS and 3000 charters. The MSS incl. the Laing MSS (Scottish and misc.), Latin charters, 854-1837 (chiefly Scottish), Arabic and Persian MSS. The chief spec. book collections are the Drummond of Hawthornden (16th-cent. lit.), Halliwell-Phillipps (Shakespeare), Lord Abercromby (archaeol., ethnol.), Blackie (mod. Greek), Bruce (oceanog.), Cameron, Mackinnon and Carmichael-Watson (Celtic), Hodgson (econ.), Berriedale Keith (Indian hist. & lit., and the constitution of the British empire). There is a good med. collection and the valuable Reid music library. There are publ. catalogues of *Printed Books* (3 vols., 1918-23), *Laing Charters* (1899), *Western Mediaeval MSS* (1916), *Arabic & Persian MSS* (1925) and *Music* (1941).

THE LABORATORIES are especially well equipped for res. in anat., anthropol., bacteriol., chem. (the labs. at King's Bldgs. have accomm. for about 400 students), zool., mining, engn. (notably hydraulics, strength of materials, electr. engn.), mat. med., pathol., phys., physiol., psychol., pub. health. The Jane Findlay Thomson comm. lab. facilitates the training of BCom students in practical business methods. The univ. has a table at the Millport marine atn. The Tate Inst., opened in 1955, provides facilities for res. in mathl. phys.

MUSEUMS. Nat. philoa., fine art, geol., nat.

hist., chem., for., agric., entomol. and for zool. (Waterhouse collection of coleoptera), anat. (founded with the Monro collection in 1800; numerous specimens of cetacea and human crania), physiol., mat. med. (notable collections of medicinal and food substances, incl. those of Duncan and Christison), forensic med., pathol., surg., obstet. (Simpson collection), music and musical instruments. The prof. of astron. is astronomer royal for Scotland and gives practical courses at the Royal Observatory.

HOSPITALS. Royal Infirmary adjoining the univ. provides over 1000 beds for clin. teaching; Children's, Maternity and Fever Hosps., Royal Mental H., Royal Victoria H. for Tuberculosis, and Northern Group Hosps.

SCH. OF APPL. DYNAMICS In addn. to carrying out res. the sch. offers courses of instructn. leading to the dipl. in appl. dynamics. Hd. of sch.—

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SCH. OF SCOTTISH STUDIES. The res. staff of the sch. is engaged on the recording and study of folk-lore, folk-tale, folk-song and music, material culture, place names and the soc. structure of rural communities. Limited accomm. is available for postgrad. res. students pursuing these subjs. Dir.—B. R. S. Megaw, BA Camb., FSA.

SCH. OF APPL. LINGUISTICS. The primary objects of the sch. are to conduct res. and to provide experienced overseas teachers, particularly those who are actively concerned with the control of Engl. teaching policy and the trg. of teachers, with an intensive course in general and appl. linguistics, phonetics, educnl. psychol. and the methodol. of lang. teaching, and in methods of res. in these fields. The res. programme of the sch. includes fundamental work in relevant aspects of general linguistics, psycholinguistics and phonetics as well as more immediately applicable res. on particular problems of Engl. teaching methodol. Dir.—J. C. Catford, BA Lond.

UNIVERSITY THEATRE One floor of Adam House, the univ.'s exam. halls which were opened in 1955, is equipped as a theatre.

ADMISSION See Appendix III.

FIRST DEGREES. 3 yrs.—MA (ord.), BCom, LLB, BSc (ord.) in pure sci., engn., for.; 4 yrs.—MA (hons.), BSc (ord.) in agric., chem., technol., mining, BSc (hons.) in pure sci., chem., technol., engn., for., mining, BMus (if not exempted from 1st yr.), LLB (hons.); 5 yrs.—BSc (hons.) in agric., BArch, BDS, BMus (hons.) (if not exempted from 1st yr.), BVM&S; 6 yrs.—MB ChB.

MA hons. may be taken in: archaeol., Celtic studies, classics, econ. sci., Engl. lang. & lit., fine art, French lang. & lit., geog., hist., maths. & nat. philos., mental philos., mod. langs. (Arabic, French, German, Italian, Persian, Russian, Spanish, Turkish), psychol., Sanskrit, semitic langs., Scottish hist. studies, soc. anthropol.

MA (ord.) may be combined with course of study & trg. leading to a dipl. in nursing studies and art. of R.G.N. for Scotland.

BSc hons. in pure sci may be taken in: anat., anthropol., bacteriol., biochem., biol. (bot. with zool., or bot. with genetics, or zool. with genetics, or physiol. with genetics, or bacteriol. with zool., or bacteriol. with chem.), bot., chem., genetics, geol., mathl. phys., mathl. sci. (maths with phys. or maths. with mathl. phys.) (stats and theoret astron may be incl. in this sch.), nat. sci. (bot. with geol., or zool. with geol., or maths. with genetics), pathol., pharmacol., phys. sci. (phys. with chem., or phys. with geol., or chem. with geol.), phys., physiol., psychol., zool.

HIGHER DEGREES. 2 yrs—MArch, MSc (1 yr. for hons grads of Edin.), PhD. 3 yrs—BEd, BD. By presentation of thesis (with yrs after graduation). MD, MDS (2 yrs.), DMus, DVM&S (3 yrs.), ChM, DLitt, DSc (5 yrs.), LLD (7 yrs.)

HONORARY DEGREES MA, LLD, DD, DMus, DLitt, DSc.

The univ. does not award EXTERNAL DEGREES

DIPLOMAS Actuarial maths, 2 yrs—open to persons previously admitted as students of the Fac. of Actuaries. Admin. law & practice, 1 yr—open to grads of a British univ. or other recog. univ. and to those who have reached a similar standard. Animal genetics, 1 yr.—open to hons grads. in a biol. subj. or in maths. of this or another univ. Appl. dynamics, 1 yr.—open to hons grads. in engin., maths or phys. Appl. linguistics, 1 yr.—open to grads. with at least 3 yrs' experience in the teaching of Engl. as a second lang. or in the teaching of other langs. Biol. (bot., physiol. and zool.), 1 yr.—open to hons grads. in sci. of this or another approved univ. Biophys., 1 yr.—open to grads. with hons in sci. or grads. in med. Civic design, 1 yr. for archit. grads., 2 yrs. for other grads. Clin. psychol., 3 yrs.—open to grads. with hons. degree in psychol. or qualif. recognized as equivalent by the British Psychological Soc. Educn.—open to persons who have attended a course of professional trg. or have had at least 3 yrs' experience as a teacher, and have completed a graduation course in arts or sci.; the dipl. is granted on completion of univ. courses (1 yr.) and passing exams in psychol., theory & hist. of educn., and modern educn. systems & problems. Electronics and radio, 1 yr.—open to hons grads. in electr. engin., maths or phys. of this or another approved univ. Engl. studies, 1 yr.—open to grads. of the univ. and to those who have reached a similar standard. For, 1 yr.—open to grads. in for. of an approved univ. other than Edinburgh. General linguistics, 1 yr.—open to grads. of the univ. and to those who have reached a similar standard. Geog., 1 yr.—open to hons. grads. in geog. and to those who have reached a similar standard. Landscape archit., 1 yr.—open to grads. or persons with qualifs. approved by fac. of arts. Management studies, 1 yr.—open to grads. or persons with qualifs. approved by fac. of arts (previous managerial experience most desirable). Medical services admin., 1 yr.—open to grads. Paleoge. &

manuscript studies, 1 yr.—open to grads. or persons whose qualifs. are approved by the fac. of arts. Phonetics—open to grads. of the univ. and to those who have reached a similar standard. Islamic studies, 1 yr.—open to grads. of the univ. and to those who have reached a similar standard. Pub. health (1 acad. yr.), radio-diag. (18 mos.), radiotherapy (2 yrs.), trop. med. & hyg. (6 mos.)—open to grads. of the univ. and to others holding corresp. degrees or registrable qualifs. Psychiatry—new regns. are under consideration. Rural sci., 1 yr.—open to hons. grads. in sci. or econ., or ordinary grads. in agric. of this or any other approved univ. Soc. anthropol., 1 yr.—open to grads. or persons possessing qualifs. approved by the fac. of arts. Soc. study, not less than 1 yr.—open to grads. of British or other approved univs. with certain restrictions as to subjects taken for degree. Trop. vet. med., 6 mos.—open to grads. in vet. med. & surg. Vet. state med., 1 yr.—open to grads. in vet. med. & surg.

CERTIFICATES Educn. studies, 1 yr.—open to non-grads. holding a Scottish teacher's cert. or a teacher's cert. judged by the bd. of studies to be of equal standing. Med. soc. work, 1 yr.—open to persons over 21 yrs. of age who hold a soc. study degree, dipl. or cert. Nursing studies (advanced nursing educn. for nurse tutors), 2 yrs.; nursing studies (advanced nursing admin. for nurse administrators), 1 yr.—open to registered general nurses and to grads. of approved univs. who have the necessary nursing qualifs. Psychiatric soc. work, 2 yrs.—open to persons who hold a soc. study dipl. or cert. or degree in sociol. Pub. admin., 2 yrs.—open to persons whose educn. is equivalent to univ. entrance standard. Soc. study, 2 yrs.—open to persons whose educn. is equivalent to univ. entrance standard. Child care, 1 yr.—open to persons who hold soc. study degree, dipl. or cert.

POSTGRADUATE TEACHING for med. grads. is organized by the Edinburgh Postgrad. Bd for Med. Particulars of courses, etc., may be obtained from the dir. of postgrad. studies in med., Surgeons' Hall, Nicolson St., Edinburgh, 8. The postgrad. sch. of theol. issues a detailed list of courses. Grads. contemplating res. should apply to the deans.

FEES Annual fees (incl. tuition and exam. fees) payable by all students who first matric and enter upon courses leading to a degree on or after Oct. 1, 1956. Arts, div., law and music, £35; archit., sci., £55; med. (incl. dent. and vet. med.), £60. Dipls.: actuarial maths., soc. study, £35 p.a.; other dipls. (fees for the course): civic design, £55; Engl. studies, geog., general linguistics, management studies, paleoge. & manuscript studies, phonetics, Islamic studies, soc. anthropol., educn., £35; admin. law & practice, £45; agric. sci., animal genetics, appl. dynamics, appl. linguistics, biol., biophys., electronics & radio, for., DTVM, DVSM, trop. med. & hyg., £55; clin. psychol., £60; pub. health, radiodiag.,

radiotherapy, medical services admin., £70; psychiatry, £80. Certs (annual fees). nursing studies, soc study, psychiatric soc. work, med. soc work, educnl. studies, pub admin., £35 Annual matric. fee (£2 12s. 6d.), lab deposits, and fees for late enrolment payable in addn Higher degree exam fees (figures in brackets relate to any re-exam.) MSc, £15 (£6), D Litt, £20 (no re-exam.); DSc, MD, £20 (£6); PhD, £15 (£10), DMus, £20 (£10 for each of the 2 pts.), ChM, DVMS, MDS, £25 (£6). The following are payable in addn MSc registration, £20 p.a. and lab fee of £15 p.a. PhD. £60 payable in 2 instalments in the 1st 2 yrs. of the course, lab. fee, £15 p.a. Subs. (not compulsory) to students' unions vary.

ACADEMIC YEAR Oct to June. 3 terms of 10 wks. each (except for div, which ends 3rd wk in May)

UNIVERSITY EXTENSION, ETC. There is an adult educn cttee. which arranges courses of lectures in the south-east of Scotland. The univ is now represented on the advisory cttees. for the management of the tutorial classes for adults instituted by the Edinburgh educnl. authority, in co-operation with the Edinburgh W.E.A.

VACATION COURSES Summer classes (4 wks.) for teachers are held during vacation, the lecturers being drawn mainly from the univ staff Certs gained at the courses qualify for endorsement on teachers' certs An annual 6 wks residential summer sch. is held for American, Commonwealth and European students (grad. or sr. undergrad.) as part of a programme arranged jly with other univs. The jt. programme usually includes courses in hist. lit. and philos

EXTRA-MURAL WORK (see also 'Teaching Staff', above) Classes conducted by the Edinburgh W.E.A. meet in the univ bldgs A univ extra-mural cttee. organizes courses of lectures in the south-east area of Scotland

ENTRANCE BURSARIES AND SCHOLARSHIPS. At annual entrance bursary competition bursaries and schols. valued up to £100 p.a. are available for award in the fcs. of arts, sci, med and law

POSTGRADUATE AWARDS open to grads of other univs.: see p. 308

APPOINTMENTS COMMITTEE Sec. A. G. Acaster, MA, 44 George Sq (tel.: Newington 6207) The cttee includes reps from the univ, industry, commerce and indust. liaison organizations Between 600 and 700 students are assisted each yr. to find suitable employment.

EDINBURGH UNIV CLUB OF LONDON. Sec. Dr B Williamson, 40 Queen Anne St., W.1.

HALLS OF RESIDENCE, ETC. (For wardens, see 'Admin. and Other Staff', above) For men. Cowan House, George Square (tel.: Newington 5956), accomm for about 100 students, £39. 10s - £46: 10s per term; Salisbury Green, Dalkeith Rd. (tel.: Newington 1469), accomm for 46 students; Holland House, Salisbury Green, Dalkeith Rd. (tel.: Newington 2054), accomm for 140 students, £140-£144: 15s. p.a.; Univ.

Residence for Midwifery Students, Chalmers St. (tel.: Fou 1065), £4 5s per week For women. 5 hostels at Craigmillar Park, East Suffolk Rd., £120 for the 3 terms; Masson Hall, 31 and 32 George Square and annexes (tel.: Newington 1121), Muir Hall, 34-36 Drumsheugh Gdns. (tel.: Caledonian 2890), £141 for the 3 terms; St Leonard's House, Park Road (tel.: Newington 1459), accomm for about 43 students The univ settlement has study-bedrooms for 10 male students at Cameron House, Prestonfield (tel.: Newington 3762), terms, £3. 10s per week Six months' notice generally necessary.

UNIVERSITY MILITARY AND AIR FORMATIONS. The univ trg. corps is organized in six sub-units of the following arms: artillery, engineers, electr engineers, signallers, intelligence, and infantry The primary object of the trg is to develop leadership qualities in undergrads whose military service has been deferred Students are trained for direct commissions in the regular army as well as for commissioned rank in the territorial army and reserve. The contingent is fully equipped with arms and transport There is also a thriving unit of the Women's Royal Army Corps with a similar object of enabling grads. to obtain commissions

The univ. air squadron is an R.A.F. unit which gives elementary flying trg to students. Members are attested into R.A.F.V.R. as officer cadets Membership normally lasts for 3 yrs The syllabus covers ground lectures and about 150 hrs of flying trg, which follows R.A.F. basic course Adjutant 16 Buccleuch Place, Edinburgh, 8

UNIVERSITY HEALTH SERVICE The univ provides facilities for routine med. exams for each 1st-yr student, and radiol exams. of chest for all students annually It also provides a consultative and domiciliary med. service with sp hosp facilities for treatment of sick students. This dept works in the closest liaison with the student accomm and welfare office and the phys educn dept

UNIVERSITY ATHLETIC FACILITIES Facilities for playing of most games All sections of the athletic club, of which shinty is the oldest, are run by student cttees Separate athletic clubs for men and women Up-to-date dept of phys educn

UNIVERSITY UNION Open to all male matriculated students, grads. of the univ, members of senatus and court, and members of staff Debating hall, dining-room, library, reading and writing room, etc The UNIV. WOMEN'S UNION, 53 George Sq, provides a dining-hall, library, study rooms and temp overnight accomm

UNIVERSITY COMMON ROOMS. Univ. staff club provides club facilities for all teaching and sr. admin. staff. Students' refectory provides a full meal service incl evg. meals. The jr common rm., old coll, provides a convenient meeting place and snack-bar service for undergrads The King's Bldgs. common rm. provides club and recreation facilities, incl. gymnasium, badminton and squash courts.

PUBLICATIONS. *Calendar* (Sept.), 12s. 6d., *Gazette* (4 issues per session), *Prelim. & Degree Exam. Papers* (May and July), 5d. to 2s. a set (James Thin, 55 South Bridge); *Facilities for Advanced Study and Res.*, free, on application. *Students' Handbook* issued by the students' representative council.

Histories of the Univ (all o/p.). A. Bower, *History of the University*, chiefly compiled from original papers and records never before published, 3 vols., Edin., 1817-30; A. Dalziel (ed. by D. Laing), with a memoir of the author (by C. Innes), *History of the University of Edinburgh*, 2 vols., Edin., 1862; Sir Alexr. Grant, *The Story of the Univ during its first 300 yrs.*, 2 vols., London, 1884, by various contributors, ed. by A. Logan Turner, *History of the Univ of Edinburgh, 1883-1933*, Edin., 1933 *General Council Register, 1960* (Thin, 10s)

Unofficial publicns.: *The Student* (fortnightly), *Gambit* (termly), both issued by S.R.C.

UNIVERSITY PRESS. Instituted by the Univ. court in 1945 and administered by a combined cttee of court and senatus which controls the general policy and selects MSS for publication. The main object of the press, rendered possible by bequests applied for the purpose, is the publication, in the best traditions of Scottish typography and book-production, of works of academic merit which cannot be produced on a comm. basis owing to their restricted appeal and may incur a loss, but the cttee are prepared to publish works of wider appeal, though still of literary merit, which will help to offset any such loss. Books published are advertised and sold by Messrs. Thomas Nelson & Sons, Ltd., the sole agents for the press. Sec.—A. R. Turnbull, MA

THE YEAR 1960

PRINCIPAL BENEFACTIONS R. Russell, collection of early keyboard instruments; U.S. dept of agric., £16,867 to dept of pol econ for res project in Nigeria; Rockefeller Foundation, £10,000 for res in plant physiol in dept of bot

MAJOR BUILDING DEVELOPMENTS. *Bldgs completed* engin lab extn, Holland House, men's hall of residence (to accomm 140) *Approaching completion*. vet field stn.

NEW DEPARTMENTS AND CHAIRS Dept. and chair of electr engin (Prof W E J Farvis).

RESIGNATIONS Prof K G Denbigh (chem technol.), apptd to chair, Imperial Coll, Lond

DEATHS Prof Emer Sir Herbert J C Grier-son (Engl lit); Prof. D J A Kerr (forensic med), Prof A Kennedy (psychol med), Prof Emer Sir W Calder (Greek), L B Walton (reader in Spanish).

HONORARY DEGREES DD—Rev R S Loudon, minister, Kirk of the Gieyfrs, Edinburgh, Rev Prof J S McEwen, prof of eccles hist, Aberd; Very Rev Sir Francis W Rolland, moderator general, presb. church of Australia, from 1954 to 1957, Rev W A Whitehouse, reader in div and principal of St Cuthbert's Soc, Durh LLD—D Daube, regius prof of civil law, Oxford, since 1955, fellow of All Soul's Coll; J R Firth, prof emer of gen. linguistics, Lond; E. F. Frazier, prof and hd of dept. of sociol., Howard Univ., Washington, D.C., Sir David Henderson, prof of psychiatry, Edin., from 1932 to 1954, Arthur Holmes, regius prof of geol, Edin., from 1943 to 1956, P L. Nervi, prof of technol and techniq of construcn, fac of archit, Rome, J Robertson-Justice, rector, Edin., 1957-60, Lord Stratheden and Campbell, chairman, Edinburgh & E. of Scotland Coll. of Agric.

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	4114	1140
Women	1931	188
Total	6045	1328

Distribution by Faculties. *Arts*, 2872; *div.*, 245, *law*, 191; *med* (incl dent. and vet med), 2187, *music*, 47, *sci* (incl. technol, agric and forestry), 1831 Total 7373

Included in the figures above are:—

Postgraduate students, 1838 (incl. 722 studying for higher degrees)

New admissions, 1487.

Students from other countries, 693 (Countries from which largest numbers came U.S.A., 79, India, 65, Nigeria, 51; Kenya, 37; Ghana, 31)

DEGREES AWARDED (1959-60). *Arts*: MA, 285; MA (hons), 182, BCom, 25, BEd, 8; BArch, 5; PhD, 15 *Div.*: BD, 9, PhD, 8 *Law*: BL, 17; LLB, 30. *Med.*: BDS, 41, BVM&S, 50; MB ChB, 163, MD, 14, ChM, 1, MDS, 1; PhD, 11 *Music*: BMus, 7, DMus, 1 *Sci* (incl agric, engin., mining, chem tech., for): BSc, 138, BSc (hons), 119; MSc, 13, DSc, 1, PhD, 49

DIPLOMAS AWARDED (1959-60) *Arts*: educn., 72, soc study, 13, appl linguistics, 12; Engl. studies, 5, soc. anthropol., 1, islamic studies, 2, nursing educn., 1; gen. linguistics, 2; geog., 1, phonetics, 2 *Med*: trop med, 8, hyg, 14, trop. vet med, 11, pub health, 13, vet state med, 5, med. radiodiagnostics, 4; med. radiotherapy, 3; psychiatry, 2; med services admin., 12 *Sci.*: animal genetics, 9; electronics & radio, 4; rural sci., 3, appl. dynamics, 4

CERTIFICATES AWARDED (1959-60) *Arts*: soc study, 21, psychiatric soc. work, 6; med soc. work, 10; nursing studies, 4; pub. admin., 6

UNIVERSITY OF GLASGOW*

Founded 1451

Postal Address . Glasgow, W 2, Scotland

Telephone Glasgow, Western 8855

CHANCELLOR—The Rt Hon. LORD BOYD ORR OF BRECHIN, DSO, MC, Hon LLD *St And*, DAGI
Uppsala, MA MD DSc, FRSE, FRCSI

VICE-CHANCELLOR AND PRINCIPAL—C H WILSON, MA *Oxon.* & *Glas*, Hon LLD

RECTOR—The Rt Hon THE VISCOUNT HAILSHAM, QC, MA *Oxon*

DEAN OF FACULTIES—Emeritus Professor J. D. MACKIE, CBE, MC, MA *Oxon.*, Hon LLD *St And*
& *Glas*

SECRETARY OF THE UNIVERSITY COURT AND REGISTRAR—R. T. HUTCHESON, OBE, JP, MA PhD

CLERK OF SENATE—Professor C J. FORDYCE, MA *Oxon* & *Glas*

LIBRARIAN AND KEEPER OF HUNTERIAN BOOKS AND MSS.—R O MacKENNA, MA

CLERK OF THE GENERAL COUNCIL—T R MacNAUGHTAN, MA LLB, CA

TEACHING STAFF

[†=Part-Time]

Accountancy

Browning, R, MA LLB, CA

Paton, A D, CA

Watson, F M, MA, CA

Smith, W, CA

Stevenson, J. B., CA

MacLaurin, A. D, BL, CA

Cameron, W D. B., CA

Prof

†Lectr

†Lectr

†Lectr

†Asst

†Asst

†Asst.

Nagy, Ildiko, BSc *Bud*

McIntosh, Avril M C

Res Asst

Med Artist

Ancient History

Burn, A R, MA *Oxon*

Sr Lectr

Arabic and Islamic Studies

Trimingham, Rev J S, MA *Oxon*, DLitt Lectr.

Mirza, N A., BA *Lond*

†Asst

Archæology

Fairhurst, H., MA *Liv*, PhD

(Historical Geog) Sr. Lectr

Corcoran, J. X W P, MA PhD *Manc* Lectr.

Robertson, Anne S., MA Dalrymple Lectr.

Art, see Hist. of Fine Art

African Studies

Price, T., MA EdB

Lectr

Agriculture (see also p. 1260)

Hendrie, D. S., BSc

Prof.

Wyllie, D H, BSc

Sr Lectr.

Smart, A. B., BSc

Sr Lectr

Anatomy

Wyburn, G. M., MB ChB DSc Regius Prof.

Bacsich, P., MD *Szeged*, DSc (Embryol) Reader

Warbrick, J G, MB *Liv*, PhD Sr Lectr.

Young, A., TD, MA *Camb*, MB ChB Lectr.

Hally, A. D, MB ChB Lectr.

Clarke, J A., MB ChB Lectr

Hutchison, J., MB ChM †Hon. Lectr

Hayward, A. F, BSc MB BS *Lond* Asst

McCreadie, C, MB ChB Asst

Gillespie, G., MB ChB Asst

Scott, R., MB ChB Asst

Findlay, J A. M., MB ChB *Aberd* Asst.

Scorgie, R D F, MB ChB Asst.

Welham, R A. N., MB ChB *Leeds* Asst.

Smellie, Florence, MB ChB †Asst.

Astronomy

Sweet, P A., MA PhD *Camb* Regius Prof

Ovenden, M W, MA *Camb*, BSc

PhD *Lond* Lectr

Roy, A. E., BSc PhD Lectr.

Green, R M., BA *Oxon* Asst

Hunter, R B, BSc Asst

Biochemistry

Davidson, IrN., MD DSc *Edin*, FRSE

Gardiner Prof

Munro, H N, DSc MB Reader

Paul, J, MB PhD Reader

Smellie, R M S., BSc *St And*, PhD

Sr. Lectr., Grieve Lectr.

* Member of the Association of Universities of the British Commonwealth

Dawes, E. A., DSc PhD *Leeds*
 Leaf, G., MSc PhD *Manc.*
 Crosbie, G. W., BSc PhD *Nott*
 Thomson, R. Y., BSc PhD
 Keir, H. M., BSc PhD
 Fleck, A., BSc MB ChB
 Smith, J. A. B., BSc *Lond.*, PhD *Burm.*

Sr Lectr.
 Lectr.
 Lectr.
 Lectr.
 Lectr.

Overton, K. H., BPharm BSc *Lond.*, PhD Lectr
 Sneed, R. P. A., DPhil *Oxon.*, BSc

(on leave) Lectr.

Grassie, N., BSc PhD *Aberd.*, DSc Lectr.
 Scott, A. I., BSc PhD Lectr.
 Hodges, R., MSc N Z, PhD *Manc* Lectr

Sim, G. A., BSc PhD Lectr.

Harris, G. S., BSc PhD Lectr.

Dunmore, Helen S., BSc PhD Lectr.

Hoodless, I. M., BSc PhD *Durh.* Lectr.

Parker, W., PhD *Belf.*, BSc Lectr

Campbell, K. C., BSc PhD *Durh.* Lectr.

McNeill, I. C., BSc PhD Lectr

Porte, A. L., BSc PhD Lectr

Smith, L. C., PhD III Temp. Lectr.

Smith, A. G. C., BSc *Edin.*, PhD Temp. Lectr.

Brooks, C. J. W., PhD †Hon Lectr

Cranston, G. K. L., BSc Asst

Duncan, H. J., BSc Asst

Ferguson, G., BSc Asst

Purdie, N., BSc Asst

Galchurst, T., BSc Asst.

McAuley, A., BSc Asst.

McPhail, A. T., BSc Asst

Sutherland, Shirley A., BA MSc *Br Col* Asst.

Cameron, J. M. L., BSc Microanalyst

Burdon, R. H., BSc *St And.*

Pitts, J. D., BSc *St And.*

Rubbons, D. W., BSc PhD

Botany

Walton, J., MA ScD *Camb.*, DSc *Manc.*,

Hon. LLD *McM.*, Hon. DSc *Mont-*

pelier

Regius Prof.

Williams, S., DSc *Manc.*, PhD

Si. Lectr.

Bond, G., PhD DSc

Sr Lectr.

Hutchinson, S. A., TD, BSc PhD *Brst.*

Sr Lectr.

Case, Isobel M., MA BSc PhD

Lectr.

Conway, Mrs. Elsie, BSc PhD *Ltv.*

Lectr.

Crundwell, A. C., BA *Oxon*

Lectr.

Rubbons, B. W., BSc *Lond.*, FLS

Lectr.

Beric, A. M. M., BSc PhD

Lectr.

Scott, G. D., BSc PhD

Lectr.

Elliot, C. G., MSc *Tas.*, PhD *Camb.*

Lectr.

Reed, D. W., BSc *Lond.*

Lectr.

Brett, R. D., OBE

Hon. Lectr.

Celtic

Matheson, A., MA *Edn.*

Prof

Howells, D. G., BA *Wales*

Lectr

MacDonald, K. D., BA *Camb.*, MA

Asst.

Chemistry, see also Biochem.

Raphael, R. A., PhD DSc *Lond.* Regius Prof

Robertson, J. M., MA PhD DSc, FRS

Gardiner Prof

Bell, J., PhD DSc, FRIC

Sr Lectr., Asst. Dir. of Chem. Labs

Gibson, D. T., MSc *Belf.*, PhD *Lond.*, DSc

(Med. Students) Sr. Lectr.

Mitchell, S. T. R. S., DSc PhD

(Phys. C) Sr. Lectr

Speakman, J. C., DSc PhD *Sheff*

Sr. Lectr.

Loudon, J. D., PhD DSc

Sr. Lectr.

Dawson, I. M., DSc PhD

Sr. Lectr.

Rees, W. R., BSc *Wales*, MA PhD

Sr. Lectr.

Camb.

Brand, J. C. D., DSc PhD *Lond.*

Sr. Lectr.

Payne, D. S., BSc *Lond.*, PhD *Camb.*

Sr. Lectr.

Buchanan, G. L., BSc PhD

Sr. Lectr.

Thomson, S. J., BSc PhD

Sr. Lectr.

Goodwin, T. H., PhD *Burm.*, DSc

Lectr.

Reed, R. I., BSc PhD *Lond.*

Lectr.

Kent, A., MA BSc PhD

Lectr.

Storrie, F. R., BSc PhD

Lectr.

Robertson, J., BSc

Lectr.

McAlpine, Irene M., BSc PhD

Lectr.

Thomson, G., BSc PhD

Lectr.

Clar, E., DrIng *Dresden*

Lectr.

Nancollas, G. H., BSc PhD *Wales*

Lectr.

Eglinton, G., BSc PhD

Lectr.

Computing Laboratory

Gilles, D. C., BSc PhD *Lond.* Dir

Williams, D. G., MA *Edn.* (on leave) Lectr.

Leech, J., MA *Camb.* Lectr.

Low, Anne, BSc Res. Asst.

Blair, J. M., BSc Res. Asst.

Simpson, Moira L. Res. Asst.

Coast, P., BSc Res. Asst.

Dentistry, see Medicine, below

Divinity, see also Hebrew

Smith, Rev. R. G., MA BD *Edn.* Primarius Prof

Macgregor, Rev. G. H. C., MA DD *Camb.*,
 (Bibl. Crit.) Prof

Hon. DD *Edn.*, DLitt

Foster, Rev. J., MA *Burm.*, Hon. DD *Aberd.*
 (Eccles. Hist.) Prof

Henderson, Rev. I., MA Hon. DD *Edn.*

(Systematic Theol.) Prof.

Barclay, Rev. W., Hon. DD *Edn.*, MA

(N.T.) Sr. Lectr

Mechie, Rev. S., MA Hon. DD *Edn.*

(Eccles. Hist.) Sr. Lectr.

Macquarrie, Rev. J., MA BD PhD

(Systematic Theol.) Lectr.

Economics, see Pol. Econ., and Soc. and Econ. Res.

Education

Nisbet, S. D., MA BEd *Edn.* Prof.

Richmond, W. K., MA MEd *Durh.* Sr. Lectr.

Clark, J., OBE, MA Lectr

Macintosh, Mrs. Mary, MA EdB †Lectr

Walker, J. H., MA EdB Res. Asst.

Embryology, see Anat

Engineering, see below

English Language and Literature

Alexander, P., MA, FBA	Regius Prof
Samuels, M. L., MA Oxon	(Engl. Lang.) Prof.
Purser, J. W. R., BA Dub	Sr. Lectr
Bryce, J. C., MA	Sr. Lectr.
Livingstone, T. C., MA	Sr. Lectr
Arnott, J. F., TD, BLitt Oxon., MA	Lectr.
Buchan, Hannah A., BLitt Oxon., MA	Lectr.
Farish, J., MA	Lectr
Morgan, E. G., MA	Lectr
Rillie, J. A. M., MA	Lectr
Blakeley, L., MA PhD Birm	Lectr
Salter, C. H., MA Oxon.	Lectr
Drew, K. P. A., MA Oxon	Lectr
Honigsmann, E. A. J., BLitt Oxon., MA	Lectr
Gordon, Bridget M., BA BLitt Oxon	Lectr
Davies, Sarah H., MA Wales, PhD Lond	Asst.
Crawford, Jane A., MA MLitt Dub.	Asst.

Fine Art, see Hist of Fine Art

French

Boase, A. M., MA Oxon, PhD Camb	Prof
Anderson, N. C., L&L Nancy, MA	Sr Lectr
Jones, S., MA Wales, PhD Camb	Sr. Lectr
Classe, A., L&L Paris, DLitt	
(Phonetics) Sr Lectr	
Haggis, D. R., BA PhD Lond	Lectr
Carr, J. L., BA Leeds, L&L Paris, PhD	Lectr
Saunders, H. R., MA PhD	Lectr
Barbier, C. P., BA Leeds	Lectr.
Leskey, F. W., BA PhD Lond. (on leave)	Lectr
Sutherland, G. M., DU Paris, MA	Lectr
Taylor, E. G., MA Leeds	Lectr
Zaddy, Zara P., BA Lond	Lectr.
McGowan, Margaret M., BA R'dg.,	
PhD Oxon.	Lectr.
Walker, I. H., MA Lond	Lectr
Falconer, A. G., MA Lond.,	
DU Aix-Marseille	Lectr
Roy, D. H., MA Wales	Lectr
Castor, G. B., MA Camb.	Lectr
Raphael, Mrs. Sylvia D., MA BLitt Oxon.	Temp. Asst.
Hall, H. G., MA Oxon, PhD Yale	Asst
Knowlson, J. R., BA R'dg	Asst
Bell, W. M. L., BA Oxon.	Asst
Hodson, L. R., BA Wales, BLitt Oxon	Asst.
Knowlson, Mrs. Elizabeth S., BA	
PhD R'dg.	Temp Asst.
Reynolds, R., L&L Rennes	Asst.

Genetics

Pontecorvo, G., DrAgr Pisa, PhD Edin.,	
FRS	Prof
Renwick, J. H., MB ChB St.And.,	
PhD Lond., MRCP	Sr. Lectr.
Cohen, B. L., BSc Lond	Lectr.
Ferguson-Smith, M. A., MB ChB	Lectr.
Hopwood, D. A., MA PhD Camb.	Temp Lectr.

Martin-Smith, Mrs. Cecily A., BA Roch Asst.
Renwick, Mrs. Helena Res Asst

Geography

Miller, R., MA PhD Edin.	Prof
Fairhurst, H., MA Lut., PhD	Sr. Lectr
Halstead, C. A., BSc Lond	Lectr.
Mossley, H. A., MSc Leeds	Lectr
Tivy, Joy, BA BSc Dub., PhD Edin.	Lectr
Caird, J. B., MA Edin., DURennes	Lectr
Petrie, G., MA Aberd	Lectr
Diamond, D. R., BA Oxon., MSc Chic	Lectr
Keates, J. S., MA Oxon.	Lectr
Williams, A. F., BA Brist	Asst
Marshall, Joan R., BSc Durh.	Asst
Rollinson, W., BA Manc	Asst

Geology

George, T. N., DSc Wales, PhD Camb.,	
D&S Rennes	Prof.
Bowes, D. R., MSc Adel., PhD Lond.	Sr Lectr
Currie, Ethel D., PhD DSe	Sr. Lectr
Holgate, N., MSc PhD Manc.	Lectr
Cummings, R. H., BSc PhD	Lectr
Tremlett, W. E., BSc PhD Lond.	Lectr.
McLean, A. C., BSc PhD	Lectr.
Weedon, D. S., MA DPhil Oxon	Lectr
Powell, D. W., BSc PhD	Lectr
Jardine, W. G., MSc McG., PhD Camb.,	
BSc	Lectr
Bishop, W. W., BSc PhD Birm	Asst
Whyte, F., BSc	Asst
Wright, A. E., BSc PhD Birm.	Asst
Watt, J. F., BSc Edin	Asst
Shuells, K. A. G., BSc PhD Durh.	Asst

German

Chambers, W. W., MBE, PhD Munich, L&L	
Paris & Lille, MA	William Jacks Prof
Betteridge, H. T., MA Birm., PhD Lond.	
	Sr Lectr.
Guder, G., PhD Edin	Lectr.
Rodger, Gillian, MA PhD	Lectr
Gardner, W. R. W., MA PhD	Lectr
McHaffie, Margaret A., MA PhD Aberd.	Lectr
Russ, C. A. H., MA Lond.	Lectr
Weiss, W.	Asst
Hayward-Jones, Sylvia, BA Oxon.	Asst.
Beinhauer, Monica, DrPhil Cologne	Asst.

Greek

Allan, D. J., MA Oxon, FBA	Prof
Carnegie, J., MA Aberd. & Camb	Sr Lectr
Chalk, H. H. O., MA Oxon.	Lectr
Garvie, A. F., MA Edin., BA Camb	Lectr
Richards, F. R., MA BMus Oxon.,	
Hon LLD	†Temp. Asst.

Hebrew and Semitic Languages

Mullo Weir, Rev. C. J., MA BD Hon.	
DD Edin., DPhil Oxon	Prof
Mauchline, Rev. J., Hon DD Edin., MA	
BD	(O. T. Lang. & Lit.) Prof
McKane, Rev. W., MA St.And., BD Lond.,	
PhD	Lectr.

Hispanic Studies

Atkinson, W. C., MA <i>Belf.</i>	Stevenson Prof.
McClelland, Ivy L., MA <i>Liv.</i>	Sr. Lectr.
Shaw, D. L., MA <i>Manc.</i>	Lectr.
Jost, Beatrice, BA PhD <i>Lond.</i>	Lectr.
Iglesias, J., LicenD <i>Barcelona</i>	Asst.

**History, see also Div., Hist. of Fine Art,
Hist. of Scots Law**

Stones, E. L. G., MA <i>Oxon.</i> & <i>Glas.</i> , PhD	(Mediæv. H.) Prof.
Wright, E., MA <i>Durh.</i> & <i>Virginia</i>	(Mod. H.) Prof.
.....	(Scottish H. & Lit.) Prof.
Checkland, S. G., MA <i>Camb.</i> , MCom <i>Burm.</i>	PhD <i>Liv.</i> (Econ. H.) Prof.
Mosse, W. E., MA PhD <i>Camb.</i>	Sr. Lectr.
Corlett, J. F. R., BA <i>Liv.</i>	Sr. Lectr.
Chandaman, C. D., BA PhD <i>Lond.</i>	Sr. Lectr.
Tumelty, J. J., BA <i>Durh.</i> , PhD <i>Camb.</i>	Lectr.
Brown, A. L., MA DPhil <i>Oxon.</i>	Lectr.
Parsons, F. V., PhD BA <i>Lond.</i>	Lectr.
Holmes, G. S., MA BLitt <i>Oxon.</i>	Lectr.
Webster, A. B., BA <i>Oxon.</i> , MA	Lectr.
Parish, P. J., BA <i>Lond.</i>	Lectr.
Gillard, D. R., PhD BA <i>Lond.</i>	Lectr.
Scott, A. M., MC, MA <i>Aberd.</i>	(Scottish Lit.) Lectr.

Gillfillan, J. B. S., MA	(Scottish H.) Lectr.
Buyers, J. A., MA	(Econ. H.) Lectr.
Campbell, R. H., MA PhD	(Econ. H.) Lectr.
Payne, P. L., BA PhD <i>Nott.</i>	(Business H.) Colquhoun Lectr.
Kellett, J. R., MA <i>Camb.</i> , PhD <i>Lond.</i>	(Econ. H.) Lectr.
Lamer, J. P., MA <i>Oxon.</i>	Lectr.
Thomas, P. D. G., MA PhD <i>Wales</i>	Lectr.
Larkin, M. J., MA PhD <i>Camb.</i>	Lectr.
Thomson, J. A. F., MA <i>Edin.</i> , DPhil <i>Oxon.</i>	Lectr.
Finlayson, G. B. A. M., BLitt <i>Oxon.</i> , MA	Temp Lectr.
Holmes, Mrs. Ella, BA <i>Oxon.</i> , MA	Temp Asst.
Dietz, B., BA PhD <i>Lond.</i>	Asst.
Steeds, D., BA <i>Brist.</i>	Asst.
Watts, M. R., BA <i>Oxon.</i>	Asst.
Aldcroft, D. H., BA <i>Manc.</i>	(Econ. H.) Asst.
Slaven, A., MA	(Econ. H.) Res Asst.

History of Fine Art

Young, A. M., Hon. MA	Sr. Lectr.
Miles, H. A. D., MA <i>Edin.</i>	Lectr.
Irwin, D. G., MA <i>Oxon.</i> , PhD <i>Lond.</i>	Asst.
Irwin, Mrs. Francina, BA <i>Lond.</i>	Temp Asst.
Beese, Mrs. Grizel S., MA <i>Edin.</i>	Res Asst.

Humanity, see Latin**Islamic Studies, see Arabic****Italian**

Meiklejohn, M. F. M., MA <i>Oxon.</i>	Stevenson Prof.
MacKinnon, A. D., MA	Lectr.

Kay, G. R., MA PhD <i>Edin.</i>	Lectr.
Dego, Giuliano	Asst.

Latin (Humanity)

Fordyce, C. J., MA <i>Oxon.</i> & <i>Glas.</i>	(Humanity) Prof.
Malcolm, D. A., MA <i>Oxon.</i> & <i>Glas.</i>	Sr. Lectr.
Dilke, O. A. W., MA <i>Camb.</i>	(on leave) Lectr.
Knott, Betty I., MA <i>Lond.</i>	Lectr.
Kinsey, T. E., MA <i>Oxon.</i>	Lectr.
Brown, P. M., BA <i>Oxon.</i>	Lectr.
Christie, J. D., MA <i>Edin.</i>	Lectr.
Cameron, A. D. E., BA <i>Oxon.</i>	Asst.

Law, see below**Linguistics, General**

Denison, N., MA PhD <i>Camb.</i>	Lectr.
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Logic

Hirst, R. J., MA <i>Oxon.</i>	Prof.
Russell, J. J., MA	Lectr.
Toms, E., BSc <i>Lond.</i> , BA BPhil <i>Oxon.</i>	Lectr.
Leclerc, I., BA <i>S.A.</i> , MA <i>Cape T.</i> , PhD <i>Lond.</i>	Lectr.
Schapei, Eva, DrPhil <i>Mün.</i>	(Aesthetic Philos.) Lectr.
Wallace, I. G., MA <i>Aberd.</i> , BPhil <i>Oxon.</i>	Lectr.

Mathematics

Rankin, R. A., MA PhD ScD <i>Camb.</i>	Prof.
Sneddon, I. N., MA <i>Camb.</i> , DSc	Sumson Prof.
Robb, R. A., MS <i>Mich.</i> , MA DSc	(Stats) Sr. Lectr.
Gillespie, R. P., PhD <i>Camb.</i> , MA BSc	Sr. Lectr.
Graham, T. S., PhD <i>Camb.</i> , MA	Sr. Lectr.
Martin, D., MA BSc PhD	Sr. Lectr.
McHarg, Elizabeth A., PhD <i>Camb.</i> , MA	Lectr.
Silvey, S. D., MA PhD	Lectr.
Hunter, J., BA <i>Camb.</i> , MA PhD	Lectr.
Robertson, A. P., BA PhD <i>Camb.</i> , MA	Lectr.
Geddes, A., BA <i>Camb.</i> , BSc MA PhD	Lectr.
Aitchison, J., MA	Lectr.
Munn, W. D., MA PhD	Lectr.
Britton, J. L., MSc <i>Hull.</i> , PhD <i>Manc.</i>	Lectr.
Burlak, J., MSc <i>Cape T.</i> , PhD (on leave)	Lectr.
Moran, S., MSc PhD <i>Lond.</i>	Lectr.
Simms, D. J., MA <i>Dub.</i>	Lectr.
Wallace, D. A. R., BSc <i>St. And.</i> , PhD <i>Manc.</i>	Temp Lectr.

Burlak, Mrs. Jane A. C., MA	Asst.
Howarth, J. C., MSc PhD	Asst.
Scourfield, Eira J., BSc <i>Lond.</i> , MSc <i>Exe.</i>	Asst.
Smith, C. P., MSc <i>Lond.</i>	Asst.
Robertson, Wendy J., BA PhD <i>Camb.</i>	Asst.
Dicker, R. M., MA DPhil <i>Oxon.</i>	Asst.
Underhill, J., BSc PhD <i>Lond.</i>	Asst.
Howie, J. M., MA <i>Aberd.</i>	Asst.
Wilson, R. M., BSc <i>Belf.</i>	Asst.

Medicine and Surgery, see below

**Metallurgy, etc., see Royal Coll. of Sci.
and Technol., p. 1267**

Music

Orr, R., MA MusD <i>Camb</i>	Gardner Prof
Rimmer, F W., BMus <i>Durh</i> , MA <i>Camb</i>	
	Sr. Lectr., Cramb Lectr.
Elliott, K. J., MA <i>St And.</i> , MusB	
PhD <i>Camb.</i>	Lectr.
Tilmouth, M., MA PhD <i>Camb</i>	Asst.

Norwegian

Rosegg, Miss Oddveig, CandPhil <i>Oslo</i>	Lectr.
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Philology, Romance

Zaddy, Zara P., BA <i>Lond</i>	Actg. Lectr.
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Philosophy, Moral, see also Logic, and Psychology

MacLagan, W. G., MA <i>Oxon</i> , PhD <i>Edin</i>	Prof.
Lamont, W. D., DPhil <i>Oxon.</i> , MA	Sr. Lectr.
Dickie, J. S., MA BSc	Lectr.
Dawson, J. G., BA <i>Oxon</i> , PhL STB <i>Rome</i>	Lectr.
Downie, R. S., BPhil <i>Oxon</i> , MA	Lectr.
Horsburgh, H. J. N., BSc <i>Lond</i> , BLatt <i>Oxon</i> , MA	Lectr.
Hunt, I., MA BPhil <i>Oxon</i>	Lectr.

Philosophy, Natural

Dee, P. I., CBE, MA <i>Camb</i> , FIP, FRS	Prof
Gunn, J. C., MA <i>Camb</i> & <i>Glas</i>	Cargill Prof
McFarlane, W., MA DSc, FIP	Sr Lectr
Rutherglen, J. G., BSc <i>Lond</i> , PhD	Sr Lectr
Lewis, G. M., MSc <i>Lond</i> , PhD	Sr Lectr
Burton, W. K., MScTech <i>Manc</i> , PhD <i>Brist.</i>	Sr. Lectr
Reid, J. M., MA	Sr. Lectr.
Wyllie, G. A. P., PhD <i>Brist.</i> , BSc	Sr Lectr.
McNeill, J., MA	Sr. Lectr.
Cockroft, A. L., MA <i>Camb</i>	Sr Lectr
Giles, R., BSc	Lectr
Guggenheimer, K. M., DrPhil <i>Berl</i>	Lectr
Dixon, D., BSc	Lectr
Bransden, B. H., BSc PhD <i>Lond</i>	Lectr
Mykura, H., BSc <i>Birm</i> , PhD <i>Lond</i>	Lectr
Stewart, D. T., BSc PhD <i>Belf</i>	Lectr.
Hughes, I. S., BSc PhD	Lectr
Hogg, W. R., BSc PhD	(on leave) Lectr
Jack, W., BSc <i>St. And.</i> , PhD	Lectr.
Drever, R. W. P., BSc PhD	Lectr.
Lang, E. W., MA PhD	Lectr
Morton, W. T., BSc PhD	Lectr.
Pursey, D. L., BSc PhD	Lectr.
Lenihan, J. M. A., MSc <i>Durh</i> , PhD	

Thomas, D. L., BSc <i>Edin.</i>	†Hon Lectr
Thomson, J. S., BSc	Asst.
Dougan, P. W., BSc	Asst.
Kirk, J., BSc	Asst.
Currie, W. M., BSc	Asst.
Lloyd, J. T., BSc	Res Technologist

Physics, see Philos., Nat.**Physiology**

Garry, R. C., MB ChB DSc, FRFPGS Glas	Regus Prof.
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Garven, H. S. D., BSc MD, FRFPGS Glas	Reader
Weir, J. B. de V., MA BSc MB ChB	Sr Lectr
Roberts, T. D. M., BSc <i>Lond</i> , PhD <i>Edin.</i>	Sr Lectr.
Lewis, J. J., MSc <i>Manc</i>	Sr. Lectr.
Boyd, I. A., BSc <i>Lond</i> , MB ChB PhD	
	(on leave) Sr Lectr.

Durnin, J. V. G. A., MA MB ChB	
DSc <i>Abeld</i>	Sr Lectr
McNaught, Ann B., MB ChB PhD	Lectr.
Gillespie, J. S., MB ChB PhD	Lectr
Holmes, M., MB ChB	Lectr
Martin-Smith, M., MSc N.Z., PhD <i>Roch.</i>	Lectr.
MacKenna, B. R., MB ChB	Lectr.
Lamb, J. F., BSc MB ChB PhD <i>Edin</i>	Lectr
Garns, F. W., BSc	Lectr
Muir, T. C., BSc	Lectr.
Stewart, Air Commodore W. K., CBE, AFC, BSc MB (Aviation P.)	†Hon Lectr
Todd, J. K., BSc MB ChB	Asst.
Munro, Mrs Edith, MB ChB	Temp Asst
Carey, Fiona M., BSc <i>Lond</i>	Asst.
Forbes, W., MB ChB	Asst.
Mack, A. J., MB ChB	Asst.
Boyd, I. E., MB ChB	Asst
Baird, J. R. C., BSc	Asst
Brown, I., BSc	Asst
Greer, J. R., BSc PhD	Res. Asst
Callander, R.	Medical Artist

Political Economy

Wilson, T., OBE, MA <i>Oxon</i> , PhD <i>Lond</i>	Adam Smith Prof
Gaskin, M., DFC, BA <i>Liv.</i> , MA	Sr Lectr
Meek, R. L., MA LL.M. N.Z., PhD <i>Camb</i>	
	Sr. Lectr.
Orr, Mrs Sarah C., MA PhD	Lectr
Sleeman, J. F., MA <i>St And</i> & <i>Manc</i>	Lectr
Houston, G. F. B., MA <i>Edin</i> , BLatt	Lectr
Hunter, J. B. K., MA <i>Edin.</i>	Lectr
Gibb, E. B., MA	Lectr
Garton, G. D., MA <i>Liv</i> & <i>Camb</i>	Lectr
MacBean, A. I., BPhil <i>Oxon</i> , MA	Lectr
Holmans, A. E., MA DPhil <i>Oxon.</i>	Lectr
Brant, R. W. L., BA <i>Nott</i>	Asst
Ferris, Joan, BA <i>NUI</i>	Asst
MacLennan, M. C., MA	Temp Asst.

Politics (Political and Social Theory and Institutions)

Raphael, D. D., MA DPhil <i>Oxon</i>	Edward Caird Prof.
Moodie, G. C., MA <i>St. And.</i> & <i>Oxon.</i>	Lectr.
Barbu, Z., PhD <i>Chuj</i>	Lectr
Lewis, I. M., BLatt DPhil <i>Oxon</i> , BSc	Lectr
Lloyd-Jones, I. D., MA <i>Camb.</i>	Asst.
Hoffman, J. D., MA <i>Tor</i>	Asst

Principles of Religion

Galloway, A. D., PhD <i>Camb</i> , MA BD	Sr. Lectr.
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Psychology

Pickford, R. W., MA PhD <i>Camb</i> , DLitt	Prof
Gardner, P. A. D., MA BSc EdB LLB	Lectr.

Weir, A. J, DPhil *Oxon*, MA
 Stott, D. H, MA *Camb.*, PhD *Lond*
 Shirley, A. W., BA *Lampeter*, EdB

Psychology, Industrial

Oakley, C. A., BSc EdB

Russian

Holtum, V. E. J., BA *Lond.* Sr. Lectr
 Zekulin, G., IngComSci *Prague*, MA *Liv*
 (on leave) Lectr
 Forsyth, J., MA *Edin* Lectr.
 Brickett, Mrs. Natalia Y Asst.
 Caird, Shena N. Asst.

Scottish History and Literature, see Hist

Slavonic and Eastern European Languages

Soukup, L., ThB *Prague*, PhD *Edin*
 (Czechoslovakian) Lectr
 Dabrowski, J., PhD *Cracow*
 (Polish) Temp Lectr

Social and Economic Institutions, Soviet

Miller, J., MA *Sheff* Lectr
 Newth, J. A., BA *Oxon* Lectr
 Schlesinger, R. A. J., DrRerPol *Vienna*,
 PhD *Lond* (Res. Staff)

Social and Economic Research

Robertson, D. J., MA (Appl Econ) Prof.
 Paterson, T. T., BSc *Edin.*,
 MA PhD *Camb* Sr. Lectr.
 Parkinson, J. R., BCom *Leeds* Sr. Lectr
 Baird, R., MA LLB Lectr
 Bates, J. A., BA PhD *Nott* Lectr
 Fisher, G. R., BCom *Birm*, MA *Camb* Lectr
 McCrone, R. G. L., MSc *Wales*,
 MA *Camb* Lectr
 Reid, G. L., MA *St. And* Asst.
 Utton, M. A., BA *Nott* Asst.
 Alpine, R. L. W., MA Asst.
 Ritchie, Margaret, MA Res. Asst.

Social Psychology

Jahoda, G., MSc PhD *Lond.* Sr. Lectr.
 Chalmers, A. D., MA Asst.

Social Study

Mack, J. A., MA Dir
 Cleveland, Agnes R., BA *Lond.* Tutor

Sociology

Higbet, J., DPhil *Oxon.*, MA Lectr

Spanish, see Hispanic Studies

Statistics

Robb, R. A., MS *Mich*, MA DSc Mitchell Lectr

Theology, see Div.

Veterinary Medicine, see below

Zoology

Yonge, C. M., CBE, PhD DSc *Edin*,
 Hon DSc *Brist.*, FRS Regius Prof
 Slack, H. D., BSc *Lond*, PhD *Edin* Sr. Lectr.
 Robertson, J. D., PhD *Camb.*, BSc Sr. Lectr
 Steedman, H. F., BSc PhD *Brist* Sr. Lectr.
 Barnett, S. A., MA *Oxon* Sr. Lectr.
 Hill, A. R., BSc PhD *St And* (Agric) Sr. Lectr.
 Müller, Agnes E., MA Lectr.
 Crowson, R. A., BSc *Lond* Lectr
 Hopkins, C. A., BSc *Leeds*, PhD *Dub*
 (Vet.) Lectr.
 Hunter, W. D. R., BSc PhD, FLS Lectr.
 Owen, G., DSc *Wales* Lectr.
 Lawson, J. W. H., BSc *Lond*, PhD
 (on leave) (Entomol) Lectr.
 Fraser, A., BSc PhD (Agric) Lectr.
 Cowey, J. B., BA *Camb.* Lectr.
 Dixon, A. F. G., BSc *Lond*, DPhil *Oxon.* Lectr.
 Dobson, R. M., MA *Camb.*, PhD *Lond*
 (Agric) Lectr.
 Bowden, J., MB BS *Durh*, BSc *Oxon.*,
 PhD *Belf* Lectr
 Henderson, A. E., BSc *Edin* Asst.
 Lockey, K. H., DIC, BSc PhD *Lond* Asst.
 Scott, D. B. C., BSc *Aberd.* Asst.
 Usherwood, P. N. R., BSc *Wales* Asst.
 Charles, G. H., BSc PhD *Wales* Asst.
 Miller, P. J., BSc *Liv* Asst.
 Walkey, M., BSc *Durh* Asst.

ENGINEERING

Aeronautics and Fluid Mechanics

Nonweiler, T. R. F., BSc *Manc*,
 PhD *Belf* Mechn Prof
 Babister, A. W., MA *Oxon*, PhD Sr. Lectr
 Thom, A. S., BSc PhD Sr. Lectr.
 Cain, T. H., BSc *Lond* Lectr.
 Tanner, P. H., BSc Lectr.
 Wong, H. H. Y., BSc *Shanghai* Lectr.
 Kelling, F. H., BSc *Edin* Lectr
 Moore, A., BSc Res. Asst.
 Pirie, D. A., MS *M I T*, BSc Res. Asst.

Engineering, Civil

Marshall, W. T., BSc PhD *Lond* Regius Prof
 Sutherland, H. B., SM *Harv*
 (Soil Mechanics) Reader
 Nelson, H. M., BSc *Lond.* Lectr
 Arthur, P. D., BSc Lectr
 Landsay, J. A., BSc Lectr
 McKenzia, R. D., BSc Temp Lectr
 Allan, D. M., BSc Asst
 Smith, I. A., BSc Res. Asst

Engineering, Electrical

Lamb, J., DSc PhD *Manc* James Watt Prof
 Small, A. J., BSc PhD Sr. Lectr.
 Gordon, D. S., BSc *Edin*, PhD Sr. Lectr.
 Foord, T. R., BSc PhD *Lond* Lectr
 Shankland, J. H., BSc Lectr
 Thomas, P. A. V., BSc Lectr
 Collins, J. H., MSc *Lond* Lectr

Bacteriology

Howie, J W, MD <i>Aberd</i>	Gardiner Prof
Lominski, I R W, MD <i>Cracovia</i>	Sr Lectr
Ives, J C J., MB ChB <i>Edin.</i>	Sr Lectr.
Kyles, W. B., MB ChB	Sr. Lectr
Hutchison, J G. P., MD <i>Lond.</i>	Sr. Lectr
Morrison, R. B., BSc PhD	Lectr
Harper, Elizabeth M., BSc PhD	Lectr
Smith, D. D., MD	Lectr.
Gentles, J C., BSc PhD	Lectr.
Norris, J R., BSc PhD <i>Leeds</i>	Lectr.
McGeachie, J., MB ChB	Lectr
Scott, A C, MB ChB	Lectr
Stark, J M., MB ChB	Lectr
Gordon, J., BA <i>Camb</i> , MB ChB <i>Edin.</i>	Lectr
Bruce, L. G., MB ChB DPH	†Hon Lectr.
Tinne, J E., BSc MB ChB DPH <i>Edin</i>	†Hon Lectr

Sommerville, R G, MD	†Hon Lectr.
Fallon, R J., BSc MD <i>Liv</i>	†Hon Lectr.
Arbuthnot, J P, BSc	Asst
McCapra, Mrs. Jean, BSc	Asst
Dawson, Christine O., BSc	Res. Asst

Dentistry

Aitchison, J., BSc, FDSRCSEd	(D. Surg.) Prof., Dir.
Gibson, W. M., MB ChB <i>St And.</i> , FDSRCSEd	(D Prosthetics) Prof
White, T. C., BSc, FDSRCSEd	(Orthodontics) Prof
Noble, H. W.	Sr. Lectr
Ireland, J	Lectr
McNeil, C. K., PhD, FDSRCSEd	Lectr
Thomson, J. C	Lectr.
McDougall, J. C	Lectr
MacGillivray, D	Lectr
Carmichael, A F, FDSRCSEd	Lectr
Nixon, G S, PhD, FDSRCSEd	Lectr
Lunt, Dorothy A, MDS	Lectr
Kennedy, G D. C., BDS	Lectr.
McLundie, A. C., BDS	Lectr
Clyde, J S, BDS	Lectr
Hammond, J., BSc BDS	Lectr
Campbell, J., PhD, FDSRCSEd	†Hon. Lectr.
Orr, J A	†Hon. Lectr
Gale, J A	†Hon Lectr
Clauk, H. A., PhD	†Hon Lectr
Edwards, A. G	†Hon Lectr

Dermatology

Milne, J. A., MB ChB	Reader, McCall Anderson Lectr
Harvey, G., MB ChB	†Hon Lectr
Smith, Mary S, MD	†Hon Lectr

Ear, Nose and Throat, Diseases of

Christie, J. F., MB ChB, FRFPGlas	†Hon Lectr
Connal, E. A M., MB ChB	†Hon. Lectr.
Watson, R J., MC, TD, MB ChB	†Hon Lectr
Howie, T O., MB ChB, FRFPGlas	†Hon. Lectr

Land, F. T., MB ChB, FRFPGlas

Dixon, J., MB BS <i>Lond</i> , FRCS	†Hon. Lectr
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Eye, Diseases of the

Riddell, W. J. B., MD, FRFPGlas	Tennent Prof
Steel, Janet F., MB ChB	†Hon. Lectr.
Tennent, J. N., BSc <i>Lond</i> , MB ChB, FRFPGlas	†Hon Lectr.
Thomson, A M W, TD, MD, FRFPGlas	†Hon Lectr
Leishman, R, MD	†Hon Lectr.
Paterson, M W, MA MB ChB, FRCSed	†Hon. Lectr
Donald, G	Asst Medical Artist

Forensic Medicine and Medical Jurisprudence

Glaster, J., JP, DSc MD, FRFPGlas	Regius Prof
Imrie, J A, MD, FRCSEd	Lectr
Rentoul, E., MBE, MB ChB MA LLB	Lectr.
Weir, W. P., MB ChB	†Hon. Lectr

Infancy and Childhood, Diseases of

Hutchison, J. H., OBE, MD, FRFPGlas, FRCP	Samson Gemmell Prof
Dennison, W. M., MD, FRFPGlas	Barclay Lectr
Blockey, N J, MChOrth <i>Liv</i>	Barclay Lectr
Coleman, E. N., MD, MRCPed, FRFPGlas	Lectr
MacLaurin, J C, MB ChB, MRCPed	Lectr
Wattie, Nora I., MB ChB <i>Aberd</i> , DPH	†Hon. Lectr
Riley, I. D., BSc MD, FRFPGlas	†Hon. Lectr
Laird, A P, MB ChB	†Hon. Lectr.
Ferguson, C A, MB ChB, FRCSEd	†Hon. Lectr
Giles, Margaret D, MD	Asst
Shanks, R. A., MD, MRCP, FRFPGlas	Asst

Infectious Diseases

Anderson, T, MD, FRCPEd, FRFPGlas	Prof
Landsman, Joan B, MB ChB, FRFPGlas	Lectr.
Stevenson, J, MB ChB, MRCPed, FRFPGlas	Lectr.
Lawson, J H, MD DPH	†Hon Lectr.
Rankin, A L. K., MD DPH, FRFPGlas	†Hon Lectr

Materia Medica, see also Med, Clin

Alstead, S, CBE, MD <i>Liv</i> , FRCP	Regius Prof
Fulton, W. F M., BSc MD	Sr Lectr
Macarthur, J G., MC, MB ChB <i>Aberd</i>	Pollok Lectr
Boyd, D H A., MB ChB <i>Edin</i>	Lectr.
Lewis, G P, BSc MB ChB <i>Wales</i>	Lectr
Innes, S G B, MA MB ChB <i>Aberd.</i>	Asst
Finlayson, Janet P., BSc	Asst

Medical Radiology

Walker, J. Z., MB ChB, FFR †Hon. Lectr.
 Park, S. D. S., MD †Hon. Lectr.

Medicine

McGirr, E. M., BSc MD, FRFPGS Glas
 Murhead Prof
 Douglas, A. S., BSc MD Sr Lectr.
 Kennedy, A. C., MD, FRFPGS Glas Sr Lectr.
 Renfrew, S., BSc MB ChB †Hon. Lectr.
 McEwan, T., MD, FRFPGS Glas †Hon. Lectr.

Medicine, Clinical

†Honorary Lecturers
 Imrie, A. H., MD
 Oastler, E. G., TD, MA Oxon., MB ChB,
 FRFPGS Glas, FRCP
 Wright, J. H., JP, MD, FRFPGS Glas
 McCluskie, J. A. W., MB ChB, FRFPGS Glas
 Rennie, J. B., MD, FRFPGS Glas
 Scott, L. D. W., MD, FRFPGS Glas
 Gritham, J. G., JP, MD
 Murray, I., MD, FRFPGS Glas, FRCPed
 Kerr, J. D. O., MB ChB
 Brown, A., MD
 Lazarus, S., MD, FRCP, FRFPGS Glas
 Fraser, T. N., MD, FRFPGS Glas, FRCP
 Peel, A. A. F., DM BCh Oxon
 Richards, R. L., MD *Aberd*
 Anderson, W. F., OBE, MD FRFPGS Glas

Medicine, Practice of

Wayne, E. J., MSc MD PhD *Leeds*,
 FRCP Regius Prof
 Goldberg, A., MD *Edin* Sr Lectr.
 Nordin, B. E. C., MD *Lond* Sr Lectr.
 Harrison, M. T., MD *Belf.* Lectr.
 Koutras, D. A., MD *Athens* Temp Lectr.
 Gaylor, J. B., MA BSc MB ChB,
 FRFPGS Glas †Hon. Lectr.

Obstetrics and Gynaecology

Anderson, D. F., MD, FRFPGS Glas,
 FRCOG Murhead Prof
 Donald, I., MBE, BA *Cape T*,
 MD *Lond* (Midwifery) Regius Prof
 Macaskill, Sarah, MB ChB Lectr.
 MacVicar, J., MD Lectr.

†Honorary Lecturers

McLennan, H. R., MD, FRFPGS Glas, FRCOG
 Sutherland, A. M., MD, FRFPGS Glas
 Hart, D. McK., MB ChB, FRFPGS Glas
 Murdoch, R., TD, MD, FRFPGS Glas, FRCOG

Orthopaedics

Barnes, R., BSc MB ChB *Manc.*, FRCS,
 FRFPGS Glas Prof.
 Stevens, J., MA MB BChir *Camb*,
 FRCSed, FRCS Lectr.
 Patrick, J., MB ChB, FRCS †Hon. Lectr.
 Sillar, W., BSc MB ChB, FRCSed,
 FRFPGS Glas †Hon. Lectr.

**Pædiatrics, see Infancy and Childhood,
Dis of****Pathological Biochemistry**

Eaton, J. C., BSc MB ChB, FRIC Sr Lectr.
 Wilson, H. E. C., DSc MB, FRFPGS Glas
 St. Lectr.
 Chambers, J. W., BSc MB ChB, FRIC,
 FRFPGS Glas Sr Lectr.
 Hendry, E. B., BSc PhD MB ChB *Edin*,
 FRFPGS Glas Sr Lectr.
 Grant, J. K., BSc PhD *Edin*, FRIC Sr. Lectr.

Pathology

Cappell, D. F., CBE, MD, FRFPGS Glas Prof
 Symington, T., BSc MD, FRIC,
 FRFPGS Glas St. Mungo-Notman Prof
 Hutchison, H. E., MD, FRFPGS Glas Reader
 Dick, J. C., MD, FRFPGS Glas Sr Lectr.
 Lennox, B., MD *Durh*, PhD *Lond.*,
 MRCP, FRFPGS Glas Sr Lectr.
 Anderson, J. R., BSc MD *St. And* Sr. Lectr.
 Cruickshank, B., MD PhD *Edin* Sr. Lectr.
 Sandison, A. T., BSc MD *St. And* Sr. Lectr.
 Boyd, J. F., MB ChB, MRCPed Sr Lectr.
 Patrick, R. S., MB ChB DPH Lectr.
 Pullar, P., MB ChB Lectr.
 Goudie, R. B., MB ChB, MRCP Lectr.
 Kennedy, S., MA MB ChB Lectr.
 Duguid, W. P., MB ChB Lectr.
 Adams, J. H., MB ChB Lectr.
 Beck, J. S., BSc MB ChB, FRFPGS Glas Lectr.
 Carr, I. A., MB ChB PhD Lectr.
 Catto, Mary E., MB ChB Lectr.
 McCallum, H. Morag, MB ChB Lectr.
 Charles, D., MB BS *Lond* Lectr.
 Webb, J. L., MSc PhD *McG* Temp. Lectr.
 Davis, W. B., BSc MD DPH †Hon. Lectr.
 Govan, A. D. T., MB ChB PhD,
 FRCPEd, FRCOG †Hon. Lectr.
 Peacock, P. R., MB BS *Lond*,
 FRFPGS Glas †Hon. Lectr.
 Roberts, G. B. S., BSc MD †Hon. Lectr.
 Gray, Kathleen G., BSc Res Asst
 Boyd, Elizabeth, BSc Res Asst

**Pathology of Diseases of Infancy and
Childhood**

MacDonald, A. M., MD *Edin.*, FRCPEd
 Gardiner Lectr., Sr Lectr.

Psychological Medicine

Rodger, T. F., DPM *Lond.*, BSc MB ChB,
 FRCPEd Prof.
 Mowbray, R. M., MA PhD Sr. Lectr.
 St. Clair, Mrs Margaret B., BCom *Edin* Lectr.
 Ingram, I. M., MD *Edin*, DPM Lectr.
 Timbury, G. C., DPM *Lond*, MB ChB Lectr.
 Selars, A. B., MB ChB, FRFPGS Glas
 Hon. Lectr., Mackintosh Lectr.
 Milne, J., DPM *Lond*, BSc MB †Hon. Lectr.
 Gillies, H., MD, FRCPEd †Hon. Lectr.
 Stone, F. H., MB ChB, FRFPGS Glas
 †Hon. Lectr.

MacGillivray, R. C., MB ChB *Edin.*,
DPM *Lond.* †Hon. Lectr
Swinney, G. E., MA MB ChB *Aberd.* †Hon. Lectr.
Freeman, T., MD *Belf.*, DPM *Lond.* †Hon. Lectr.
McClatchey, W. T., MD *Belf.*, DPM *Lond.* †Hon. Lectr.
Wardrop, K. R. H., MB ChB *Edin.* †Hon. Lectr.
Raven, J. C., MSc *Lond.* †Hon. Lectr.

Public Health

Ferguson, T., CBE, DPH *Edin.*, MD DSc,
FRCPEd Henry Mechan Prof.
Meiklejohn, A., MD DPH, FRFPSCGlas
(Indust Health) Sr Lectr
Mearns, A. G., MBE, BSc MD DPH Sr Lectr
Curran, A. P., BSc MD DPH Sr Lectr.
Horne, W. A., MD DPH Lectr.
Miller, A. R., MD DPH Lectr.
McEwan, Christina C., MB ChB DPH Lectr

Surgery

Illingworth, Sir Charles, CBE, MD
ChM *Edin.*, FRCSEd Regius Prof.
Mackey, W. A., TD, MB ChB, FRCSEd,
FRFPSCGlas St Mungo Prof
Short, D. W., BSc MB ChM, FRCSEd Sr Lectr
Forrest, A. P. M., BSc MD, FRCSEd Sr Lectr.
Bain, W. H., MB ChB, FRCS Lectr.
Miller, C., MB ChB *Aberd.*, FRCS,
FRCSEd Lectr.
Shields, R., MB ChB, FRCSEd Lectr.
Goodall, A. L., MD DPH, FRCSEd,
FRFPSCGlas †Hon. Lectr.
Burnett, W., MB ChM *Aberd.*, FRCS †Hon. Lectr.

Surgery, Clinical

†Honorary Lecturers
Gerstenberg, E. G., TD, MB ChB, FRCSEd
Kerr, A. B., OBE, TD, BSc MB ChB,
FRCSEd, FRFPSCGlas
Patrick, W., TD, MB ChB, FRCSEd,
FRFPSCGlas
Wright, R. B., DSO, OBE, BSc MB ChB,
FRCSEd
Longland, C. J., MVO, MB MS, FRCS
Beattie, W., MB ChB, FRFPSCGlas
Bonar, A. A., MB ChM, FRCSEd, FRFPSCGlas
Macpherson, I. J. P., MB ChB, FRCSEd,
FRFPSCGlas
Galloway, J. P., BSc MB ChB, FRCSEd
Fraser, K., MD ChM, FRCSEd, FRFPSCGlas
Hutchison, J., MB ChM
Gordon, W. I., MB ChB, FRCSEd, FRFPSCGlas
Brown, D. B., MB ChB, FRCS, FRFPSCGlas

Surgery, Specialist

Smith, G., MBE, MD ChM, FRCSEd, FACS,
FRFPSCGlas (Surg Cardiol) Reader
†Honorary Lecturers
Dick, B. M., MB ChB *Edin.*, FRCSEd,
FRFPSCGlas (Thoracics)

Tough, J. S., MB ChB *Edin.*, FRCSEd
(Plastics)
Robertson, J. S. M., BSc MB ChB,
FRCS (Neuro-S.)
Wallace, J., BSc MD *Edin.* (Blood Transfusion)

Tuberculosis, Clinical

Barclay, R. S., MD DPH, FRCSEd
Baxter, H., TD, MD †Hon. Lectr
Borthwick, W. M., MD ChM, FRFPSCGlas †Hon. Lectr.
Dale, A., MB ChB †Hon. Lectr.
McIntyre, J. P., MD †Hon. Lectr.

Urology

Chapman, T. L., MB ChM, FRFPSCGlas †Hon. Lectr.
Jacobs, A. H., FRCSEd, FRFPSCGlas †Hon. Lectr.
Mack, W. S., MB ChB, FRFPSCGlas,
FRCSEd †Hon. Lectr.

Virology

Stoker, M. G. P., MA MD *Camb.* Prof.
Grist, N. R., BSc MB ChB, FRCPEd Sr. Lectr.
Fraser, K. B., MD *Aberd.* Sr. Lectr.
Wildy, N. P. L., MA MB BChir *Camb.* Hon. Lectr

VETERINARY SCHOOL AND HOSPITAL**Animal Husbandry and Preventive Medicine**

Inglis, J. S. S., BSc *Edin.* Prof.
Hemmingway, R. G., MSc *Leeds*, PhD Sr. Lectr.
Abbot, S. G., MBE Lectr.
Nicolson, N., Lectr.
Pearce, P. J., MSc *Lond.* Lectr.
Campbell, A. J. D., BSc *Edin.*, BVSc *Brist.*
Weipers, Mary, MA Lectr.
Vet. Supervisor at Field Stn.

Veterinary Anatomy

Smith, Helen J. Sr. Lectr.
McCallum, F. J. Lectr.
Lindsay, Mrs. Flora E. F. Lectr.

Veterinary Biochemistry

Mulligan, W., MSc *Belf.*, PhD *Lond.* Sr. Lectr.
Jennings, F. W., BSc MAgr *Belf.* Lectr.
Douglas, T. A., BSc PhD Lectr.

Veterinary Histology and Embryology

Aitken, R. N. C. Sr. Lectr.
Morgan, Elizabeth, BVMS Asst.

Veterinary Materia Medica

Thomson, A. (also Animal Management) Lectr.

Veterinary Medicine

McIntyre, W. I. M., PhD Prof.

Greig, W. A., BSc PhD *Edin*
 Lauder, I. M.
 Fisher, E. W., BSc *Edin.*, PhD
 McCance, C. M.
 Dalton, R. G., BVMS
 Smeaton, P. D., BVMS
 Anderson, N., BVSc *Syd*

Sr. Lectr
 Lectr
 Lectr
 †Hon Lectr
 Asst
 Houseman
 Houseman

Pickering, E. C., BSc BVMS
 Anderson, R. S., BVMS

Lectr.
 Lectr.

Veterinary Surgery

Weipers, W. L., BSc, FRCVS

Prof., Dir. of Vet. Educn.

Jennings, S.

Sr. Lectr.

Lawson, D. D.

Sr. Lectr.

Hignet, P. G.

Sr. Lectr.

Campbell, J. R., BVMS

Lectr.

Weaver, A. D., BSc *Edin.*

DrMedVet *Tier H Hanover*

Lectr.

Wyburn, R. S., BVMS

Houseman

Selman, I. E., BVMS

Houseman

Veterinary Pathology

Emalie, J. W., BSc *Aberd.*

O'Sullivan, J. G.

Campbell, R. S. F.

Michna, S. W., VS *Leuven*

Grindlay, M.

McCusker, H. B.

Vantsis, J. T., PhD

Dunn, A. M., PhD *Edin.*

Hamilton, J. M., BVMS

Cornwell, H. J. C., BVMS

Prof
 Sr Lectr.
 Sr Lectr.
 Sr Lectr.
 Lectr.
 Lectr.
 Lectr.
 Asst
 Res. Asst

Veterinary Pathology, Clinical

Jarrett, W. F. H., PhD

Sharp, N. C. C., BVMS

Fine, H. M., BVMS

Sr. Lectr.
 Lectr.
 Asst.

Veterinary Pharmacology

Sanford, J., BVSc *Liv.*

Jones, R. S., BVSc *Lev*

Lectr
 Asst

Veterinary Physiology

Munro, A. F., BSc PhD *Aberd*

Sr. Lectr.

STEVENSON LECTURER (Citizenship)

1958-63—J. A. Mack, MA *Oxon & Glas.*

EXTRA-MURAL EDUCATION

Dees, N., BA *Manc.*

Dir

Lloyd, W. E., BA *Wales*

Tutor

Shearer, J. G. S., MA

Tutor

Gillanders, F., MA

Tutor

Williams, R. A., MA *Wales*

Tutor

Baillie, M.

Tutor

Cregeen, E. R., MA *Camb*

Tutor

Wilson, T. B., MA *BMS*

Tutor

Gomme, A. H., MA *Camb*

Tutor

Smith, H. J., MA *BLitt Oxon.*

Tutor

Titmus, C. J., BA *PhD Lond*

Tutor

Hutchinson, W. C., BSc PhD *Edin.*

Tutor

ADMINISTRATIVE AND OTHER STAFF

Asst Registrar & Asst Sec of Court. G. P. Richardson, MA. Finance Officer & Asst. Sec of Court. R. D. McKean, CA. Asst. Secs of Court. J. W. C. Wingate, DPA, J. B. Neilson, MC, MA *Oxon. & Glas*; J. McCargow, MA, G. Bradley, Hon. MA, W. J. Fairweather, BSc. Dep. Librarian. T. M. Walker, PhD *Belf.*, MA, FLA. Clerk of the Fac of Med. P. W. Price, BA *Oxon*. Clerk of Senate's Asst & Clerk of Facs of Arts, Div and Law. C. S. Rankine, Hon. MA. Clerk of Senate's Asst. & Clerk of Facs of Sci. and Engin. D. A. Nicol, MA. General Adviser to Women Students & Sec. for Women's Appts.

Barbara L. Napier, JP, MA. Appts Officers. J. Collins, MA; T. E. Carruthers, MA; Barbara Webb, MA. Wardens. Capt. (S) C. H. Law (MacLay Hall), K. H. Lockey, DFC, BSc PhD *Lond* (MacBrayne Hall), A. G. C. Smith, BSc *Edin.*, PhD (Kelvin Lodge), W. Burnett, MB ChM *Edin.*, FRCS (Horslethill House), Mrs. Elsie Conway, BSc PhD *Liv* (Queen Margaret Hall). Chaplain. D. Gourlay, MA BD. Student Health Service. Sr Med Officer, A. S. Henderson, MB ChB; Med Officer, H. A. N. Richmond, MB ChB. Dir of Phys Educn. G. Niven.

ASSOCIATED COLLEGES

in which university courses are provided

ROYAL COLLEGE OF SCIENCE AND TECHNOLOGY
 see p. 1265.

WEST OF SCOTLAND AGRICULTURAL COLLEGE,
 6 Blythswood Square, Glasgow, C.2 (tel.: City 5211-3). Principal, D. S. Hendrie, BSc. AGRIC., D. S. Hendrie, Adviser of Studies, A. B. Smart, BSc. AGRIC. ECON., J. A. Gilchrist, BSc. AGRIC. ENGIN. & SURVEYING, C. J. Swan, BSc. AGRIC. ZOOI., D. S. MacLagan, BSc(Agr) PhD DSc *Edin.*

BACTERIOL., S. Baines, BSc, PhD. BEE-KEEPING, J. Savage, BOT., W. W. Fletcher, BSc PhD, FLS. CHEM., H. Nicoll, MSc PhD *Lond.*, FRIC. DAIRYING, J. McClelland, BSc. FARM BLDGS., R. J. Forsyth, HORTIC., H. F. Dovaston, BSc PhD POULTRY, T. E. Whittle.

STUDENTS (1960-61), 276; of whom 48 were reading for univ. qualifs.

GENERAL INFORMATION

The univ. was founded in 1451 by a Bull of Pope Nicholas V, on the applan of William Turnbull, bishop of Glasgow. It was established as a *studium generale*, with the privileges of Bologna, and its charter provided for studies in theol., canon and civil law, arts and any other lawful fac.

The business of the univ. was run with varying fortunes till the Reformation, when its revenues were thrown into confusion. It was given new life by Andrew Melville, who became principal in 1574. In 1577 it was reconstituted by the 'nova erectio', a charter of King James VI which was the foundation of the statutes by which the univ. was governed until the Universities (Scotland) Act, 1858.

The 'old college' was situated in the High St for more than 4 centuries, the univ. moved to its present site on Gilmohrhill in 1870. Since the transference was made, a whole range of new bldgs has come into being (see 'Univ. Precinct', below).

CONSTITUTION By the Universities (Scotland) Act of 1858, as modified by the act of 1889, the univ. court, upon which senate and general council have representation, controls the finance, properties and general admin. of the univ. The senate superintends teaching and discipline. It consists of the principal (who presides) and the profs (*ex officio*) and readers and lectrs. apptd by the senate to a max. of one-fourth of the *ex-officio* members. The general council consists of the chancellor, the members of the univ. court and the profs. of the univ., all *ex officio*, grads. of the univ. who have paid the registration fee, and (during their term of office) readers and lectrs. of more than 1 yr's standing. The chancellor is elected for life by the general council. The rector is elected by the matriculated students, is pres. of the univ. court, and holds office for 3 yrs. The office of principal is in the patronage of the crown. The vice-chancellor is apptd by the chancellor to discharge in his absence his function of conferring degrees. The office has usually been and now is held by the principal.

INCOME (1959-60) Total income, £2,741,377 (govt. grants, 78 per cent; fees, 10 per cent; endowments, 5 per cent; other sources, 7 per cent.).

FACULTIES AND DEANS (1961-62). Arts, Prof W. W. Chambers (German), div., Rev Prof R. G. Smith, *engin.*, Prof W. T. Marshall (civil *engin.*), law, Prof J. M. Halliday (conveyancing), med., Prof C. M. Fleming, sci., Prof C. M. Yonge (zool).

UNIVERSITY PRECINCT Depts. accomm. within the univ. precincts at Gilmohrhill incl. arts, div., law, med., sci. and *engin.* together with the library, museum, Butte hall, chapel, officers' trg. corps headquarters and the admin. offices.

The vet. sch. is accomm. outwith the precincts, at the vet. hosp., Garscube estate, and in the vet.

sch. bldg., Buccleuch St., with addnl. res. and teaching facilities at the field stn., Cochno. Teaching for the degree in agric. is provided partly in the univ. and partly in the W. of Scotland Agric. Coll. in Blythwood Sq. (see above). Med., teaching and res. facilities are provided at the Western and Royal Infirmarys, Southern General, Stobhill, Yorkhill and Dental Hosps. The *engin.* dept. also has res. and teaching labs in an annex at Spencer St., Anniesland.

The original univ. precinct, extending to about 24 acres, is bounded by Univ. Avenue on the north, by Kelvingrove Park on the east and south and on the west by the Western Infirmary, and contains little possibility of further bldg. devel.

The adjacent devel. area, extending to about 26 acres, is bounded by Univ. Avenue on the south, by Bank St. on the east, by Gt. George St. on the north and generally by the Lilybank Gdns. area on the west. This area also contains few unoccupied sites immediately available for new bldgs. The univ. owns about 8 acres and is acquiring individual houses as these come on the market. An amended plan has been approved for future univ. devel. in the adjoining Hillhead area in which sites have been allocated for a number of important new bldgs. including a refectory and library.

For bldgs. recently completed or approaching completion, see p. 1264.

The LIBRARY, founded in the 15th century, contains over 490,000 vols., including 500 incunabula. Among its many important collections are the Euing, distinguished for the value and variety of its bibles, the Hamilton (philos. works), the Ferguson (rare bks. on the hist. of chem.), and the Pollok collection of emblem lit. bequeathed to the library in 1958. There are sep. branch libraries for chem. and vet. med. A large READING ROOM serves the needs of undergrads, while there are some 70 class and dept. libraries, among the largest of which are those associated with modern langs. (opened 1960), soc. & econ. res. and the dept. of Soviet instns. The HUNTERIAN MUSEUM, founded in 1783, contains the Hunterian libr., the most valuable of the univ.'s collections of bks. and MSS., as well as important collections of coins, anat. preparations, zool. and mineral specimens, etc.

LABORATORIES. Anat., biochem., bot., chem., *engin.*, forensic med., geol., geol., nat. med., nat. philos., pathol., physiol., pub. health, virol. and zool. As Glasgow stands at the centre of the shipbldg., *engin.*, mining and indust. area of Scotland, it offers unique opportunities for technical trg. There is a well-equipped heat engines res. establ. (Spencer St.). The nat. philos. dept. has a 340 MeV synchrotron. A computing lab. was establ. in 1958, having as its main equipment an English Deuce computer.

There are bot. gdns., a freshwater biol. field stn. (Loch Lomond) and an OBSERVATORY.

TEACHING HOSPITALS 5 large general hospss. (the Western, Royal and Victoria Infirmarys and the Southern General and Stobhill hospss) are available for clinics, besides sp instrs. The dent sch is assoc with the Dent. Hosp (Renfrew St) The vet. sch. has a recently built animal hosp and a field strn

ADMISSION See Appendix III.

FIRST DEGREES. MA (ord) 3 yrs., (hons.) 4 yrs. Hons courses are separate to the extent that each suby of the hons group must be studied at hons. level during 2 sessions. The principal groups for hons are classics, philos., maths and nat philos or astron, Engl lit & lang., hist, econ, mod European langs., Semitic langs., Celtic (incl Irish and Scottish Gaelic, Manx, Welsh and Breton), music with a lang. or hist, or psychol, or maths, geog with econ or econ hist, psychol, BMus, 3 yrs, LLB ord., 3 yrs, hons, 4 yrs, BSc in appl chem, BSc in archit, BSc in pharm, hons, 4 yrs. These are essentially hons courses; the examiners may, however, award an ord or pass degree. BSc in pure sci ord 3 yrs, hons 4 yrs, separate hons. courses after the 1st yr, hons subjs.: maths, nat philos, astron, chem, the natural scis, geog, anat, physiol, pathol with bacteriol, biochem., pharmacol, genetics (with another suby) BSc in agric. ord 3 yrs, hons 4 yrs BSc in engin (aero, chem, civil, elect, mech, mining, naval archit.): 4 yrs, separate ord and hons courses after 2nd yr BScTech ord 3 yrs, hons. 4 yrs, separate hons courses after 1st yr, hons subjs.: food sci., appl bacteriol., textile sci MB ChB, 6 yrs, BDS, 5 yrs; BVMS, 5 yrs

HIGHER DEGREES BLitt, EdB, MSc (sci and engin), 2 yrs; BD, 3 yrs MD (thesis and exams, the latter may be waived, open only to grads MB ChB of Glas); ChM, MVS, DVM, MDS (as for MD), DLitt, DSc (pub health), grads of other univs, 2 yrs (no period stipulated for Glas grads), DMus, grads of other univs., 3 yrs. (no period stipulated for Glas grads), LLD, open only to grads, 7 yrs after 1st graduation. PhD (in all facs), 3 yrs

HONORARY DEGREES MA, MSc, DLitt, DD, LLD

The univ does not award **EXTERNAL DEGREES**

DIPLOMAS Educn, for grads, 1 yr. (1st yr of EdB course), pub admin, 3 yrs; dramatic studies, 2 yrs, for arts grads., DPH, 1 yr; numerical analysis, 1 yr, for grads.; Roman law, 1 yr, for grads in arts or law, clin. psychol., 2 yrs, for hons grads in psychol

Dipl for subys. of sp study (min 1 yr); Islamic hist, Greek hist & archaeol, Roman hist & archaeol., compar philol, romance philol; psychol, agric econ., social geog., sociol

CERTIFICATES. Certs. awarded in indust admin. (1 yr), postgrad study in thermodynamics (1 yr),

soc. study (2 yrs, 1 yr for grads), and dramatic studies (3 yrs)

Certs for sp study (min 1 yr) semitic philol., Greek hist; Roman hist, psychol., Islamic hist; sociol

RESEARCH For detailed information regarding postgrad study and res. in any fac., applicn. should be made to the dean. There is publd. annually *Summaries of Theses* for which the degree of PhD has been awarded in the fac. of sci

ALLIANCES Exchange arrangements exist with Cornell and McGill for free travel, fees, and maintenance for 1 yr to a student who has graduated or is about to graduate in any fac

FEES. (Fees payable on and after Oct 1962 are under review) Annual fees (incl tuition, exam. and lab fees). Arts (incl. music, educn., div and law), £35, sci. and engin, £55, med. (incl. dent. and vet med), £60 Annual matric fee (£5 '58) and lab. deposits payable in addn. Higher degrees (payable on submission of thesis) MD, ChM, DVM, MVS, MDS, £25, DLitt, DSc, DMus, LLD, PhD, £20 BLitt, £20; DPH, £70, cert. in soc study (1-yr. course for grads.), £35, (2-yr course), £25 per session, DFA, £15; cert in dramatic studies, courses in management studies, £10 and £5 per session; cert. in indust. admin., £35, dipl. in numerical analysis, £55, dipl. in Roman law, £15, dipl. in clin. psychol., £70 plus £30 for clin. yr of practical instrcn. Union membership (not compulsory), £2 2s.

ACADEMIC YEAR Oct. to June 3 terms of 10 wks. each, but teaching in 3rd term ends after 5 wks for arts, 7 wks. for engin and 8 wks for div.

UNIVERSITY EXTENSION (see also 'Teaching Staff', above). An extra-mural educn. cttee, equally representative of the univ. and working-class organizations, provides classes, short courses and single lectures to groups of students in Glasgow and the west of Scotland, so far as its resources will permit a compendium of classes and lectures for the session is obtainable from the dir of extra-mural studies, 91 Oakfield Ave, Glasgow, W2 Public lectures by profs. and others during the winter session The dept of appl econ conducts a 3-yr course in management studies and a 2-term course in indust accty, 1-term courses in indust. hist., indust law and indust relns designed for business executives. There is also a 1-yr full-time cert course in indust admin

PRINCIPAL 'OPEN' ENTRANCE AWARDS All entrance bursaries in the gift of the univ. are awarded after competitive exam held, for bursaries in div., in Sept, and for others, in June There are in addn bursaries in the gift of patrons, applicants for some of which are required to sit the general bursary exam. in June. A pamphlet giving full information is obtainable from the registrar.

POSTGRADUATE AWARDS open to grads. of other univs : see p. 808.

APPOINTMENTS COMMITTEE Sec for men's appts. J. Collins, MA *Postal address* : the University, Glasgow, W 2 (tel. Kelvin 2231) Sec for women's appts. Barbara Webb, MA. *Postal address* : the University, Glasgow, W 2 (tel. Western 8855).

GRADUATES' ASSOCIATIONS. Graduates' Assocn hon. sec.—J. C. M. Jardine, BL, 77 St. Vincent St., Glasgow, C.2. Glasgow U '93 Club. actg sec.—H. K. Walker, LLB, 30 George Sq, Glasgow, C.2. Early Twenties Club hon. sec.—G. Donaldson, LLB, 160 W. George St., Glasgow, C.2 Glasgow U Club, Aberdeen : hon. sec.—A. K. Pringle, BSc, 19 St. Swinth St., Aberdeen Glasgow U Club, London hon. sec.—H. L. P. Myles, LLB, 43 Parliament St., Westminster, London, S.W.1, and J. F. Heggie, BSc MB, 18 Middlesex Hospital, Edmonton, London, N.18 Glasgow U Women's Club, London hon. sec.—Katharine I. Kerr, MB ChB, 236A Ferme Park Rd., London, N.8. Yorkshire Assocn of Grads of the U of Glasgow hon. sec.—J. Wishart, MB, FRCS, 33 Manor Row, Bradford, Glasgow U Club, Manchester hon. sec.—Glasgow U Grads Club of New South Wales hon. sec.—D. S. Macmillan, MA, Archivist, Univ. of Sydney, New South Wales. Glasgow U Assocn of Sheffield & District hon. sec.—Dr. A. S. Browne, British Railways, E.R., Wharf St., Sheffield, 2 Hull & District Glasgow U Grads. Assocn hon. sec.—W. D. Craig, BL, The Univ., Hull, Yorks Glasgow U Grads Assocn, Birmingham. information from Prof. H. C. McLaren, Dept. of Obstetrics, Queen Elizabeth Hosp., Birmingham, 15 Glasgow U Grads Club, S. Rhodesia Glasgow U Club of New York pres.—Dr. L. Giushak, 1 West 85th St., New York, 14, N.Y. U.S.A. Glasgow U Assocn of British Columbia. pres.—J. Dick, MB, 5838 Adera St., Vancouver, 13, B.C.

RESIDENCE (For wardens, see 'Admin and Other Staff', above.) For women : Queen Margaret Hall, Bute Gdns, Glasgow, W.2 (tel. Western 1622), 90 students For men : MacLay Hall and Strain Hall, 16-18 Park Terrace, Glasgow, C.3 (tel. Douglas 5056), 114 students, MacBrayne Hall, 9-13 Park Circus Place, Glasgow, C.3 (tel. Douglas 5626), 60 students; Kelvin Lodge, 7-8 Park Circus, Glasgow, C.3 (tel. Douglas 5360), 50 students, Horslethill House, 7 Horslethill Rd., Glasgow, W.2 (tel. Kelvin 2732), 45 students Fees £130 for the academic yr. of three 10-wk terms

LODGINGS Lists of lodgings for men and women students are kept by the lodgings officer, 4 University Gdns, Glasgow, W.2 (tel. Western 8855)

UNIVERSITY MILITARY AND AIR FORMATIONS. Officers' Training Corps (Territorial Army) formed 1909 as sr div O.T.C., reorganized

1948 and 1955 C.O. Lt.-Col. J. F. Slater, W.R.A.C. Commander. Capt. M. D. Fraser, TD Units artillery, engineers, infantry, W.R.A.C. *Postal address* : University Ave., Glasgow, W.2 (tel. Western 6611)

University Air Squadron syllabus—full elem. flying trg., both ground and air, being 120 hrs' flying and 90 hrs' lectures, spread over 3 yrs C.O. Wing Commander M. Finn, DFC HQ. 11 Bute Gdns., Glasgow, W.2 (tel. Western 6460)

(There is no naval unit attached to Univ., but there are excellent facilities for undergrads and grads seeking naval trg. with the Clyde Div., Royal Naval Reserve)

UNIVERSITY ATHLETIC CLUB Facilities exist for most indoor and outdoor games and sports for men and women There are well-equipped gymnasia and swimming-pool in Stevenson Bldg Grounds Westerlands and Garscadden (tel. Western 1029, Scotstoun 2759) Hon. pres R. O. MacKenna, MA; hon. treasurer. G. Bradley, MA, dir. of phys. trg. G. Niven.

STUDENT HEALTH SERVICE. No domiciliary service, but full-time med. officers available for routine med. exams and consultations, compulsory annual chest X-ray for all matriculated students

STUDENTS' REPRESENTATIVE COUNCIL. The council consists of *ex-officio* members apptd. by certain student clubs and socs. and of elected reps. of the several facs. The constitution and functions of the S.R.C. incl. the right to petition the senate on any matter affecting teaching or discipline, and to petition the court direct in any other matter affecting the students. The council works through ctees : grants, chapel, hospitality, facs., book sales, vacation employment, freshers' camps and publications.

STUDENTS' UNIONS. Glasgow Univ. union, establd 1885, present bldgs opened 1931. Membership open to matriculated men students and former men students of the Univ., to members of the Univ. court, the senatus academicus and the teaching staff Annual sub. £2 2s *Postal address* : University Ave., Glasgow, W.2 (tel. Western 8697) Queen Margaret union, founded 1890 Membership open to matriculated women students and women grads Annual sub., £2 2s *Postal address* : University Ave., Glasgow, W.2 (tel. Kelvin 1025) Hetherington House, 13 Univ. Gdns. (tel. Western 3765), a club for res. and other postgrad. students.

PUBLICATIONS. *Calendar* (12s. 6d.), *Glasgow Univ. Gazette*, each term; *College Covenant* (journal of graduates' assocn.), bi-annually; *Glasgow Univ. Magazine* (students), monthly during winter session; *Exam. Papers*, prelim. and degree; *Student's Handbook* for matriculated students; *Archivum Linguisticum* (journal of comparative philol. & general linguistics), *Soviet*

Studies (quarterly), *Mummata* (1451-1727) (Maitland Club, 1854), *Roll of Grad.* (1727-1897) (Addison), *Matric Albums* (1728-1858) (Addison), *History of the Univ. of Glasgow*, by J

Coutts (MacLehose, 1901), *Memories of the Old College of Glasgow*, by D. Murray (Jackson Wylie, 1927), *The Univ. of Glasgow 1451 to 1951*, by Prof. J. D. Mackie (Jackson, 1954).

THE YEAR 1960

PRINCIPAL BENEFACTIONS. Wellcome Trust, £60,000 towards new genetics bldg. and £13,000 for electron microscope for virol, Sir Daniel Stevenson Trust, a further £19,087 for phys educn. centre, U.S. Public Health Service, \$31,000 (instalment) for res. in physiol.

MAJOR BUILDING DEVELOPMENTS. Bldgs completed mod langs bldg., engin north bldg (major reconstrucn), Wellcome lab (exper surg.), Stevenson phys educn bldg. *Approaching completion* virol inst.

NEW CHAIR Pol. and soc theory

RETIREMENTS. J. E. Keown (mech engin); W. P. McCulloch (chem.).

RESIGNATIONS. G. C. Arneil (child health), apptd consult, Royal Hosp for Sick Children, Glasgow, E. H. Bellamy (nat. philos.), apptd prof of phys, Westfield Coll, Lond, E. G. Brewin (surg.), apptd asst dir, surg dept, St Thomas's Hosp, London, D. D. Devlin (extramural educn), apptd lectr, Belf, C. Dow (vet med), apptd. to post with govt of Northern Ireland, I. B. Duncan (bacteriol.), apptd asst prof, W. Ont.; Dr B. R. Hillis (mat. med.), apptd consultant, N. Devon area, S. D. Morrison (physiol.), apptd. to post in industry, A. M. Murray (surg.), apptd. surgeon-in-charge, casualty dept., Royal Infirmary, Glasgow; M. L. Paterson (midwifery), apptd. consultant, W. Regional Hosp Bd.; G. Roberts (pathol.), apptd consultant in lab med, Ruchill Hosp, P. Swinbank (nat. philos.), apptd. lectr, Birn, J. N. Usherwood (mech. engin.), apptd. to post in industry; A. Wasserstein (Greek), apptd. to chair of classics, Leic, N. G. Waton (physiol.), apptd. to post with Med Res Council, A. H. Weatherley (zool.), returned to Australia; I. D. Willock (law), apptd. lectr, Aberd.

DEATHS. Prof B. Hague (prof. of electr engin, 1946-60), Emer. Prof. G. W. Howe (prof. of electr. engin., 1921-46).

HONORARY DEGREES. DD—G. Johnston, prof. of New Testament lang. and lit, McG; W. A. Smellie, minister of St John's, Perth. D.Litt—R. G. Austin, prof. of Latin, Lav, G. Tellenbach, prof. of hist., Freib. LL.D.—A. K. Bowman,

formerly sr admin. med officer of W. Regional Hosp Bd., D. P. Cuthbertson, dir, R. W. Res Inst, Aberd., Sir James Fergusson of Kilkerran, keeper of the records of Scotland, F. H. Lawson, prof. of compar law, Oxford, W. M. Smart, formerly regius prof. of astron., Glas, Sir Thomas M. Taylor, principal, Aberd., A. Thom, prof. of engin sci., Oxford.

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	4295	65
Women	1434	36
Total	5729	101

Distribution by Faculties Arts, 1688, div., 63, engin., 615, law, 655, med, 1441 (med, 981; dent, 238, vet med., 222), sci, 1368
Total 5830

Included in the figures above are:—

Postgraduate students, 475

New admissions, 1623

Students from other countries, 565 (Countries from which largest numbers came: Nigeria, 73, India, 52, Norway, 40, U.S.A., 27, Ghana, 22)

DEGREES AWARDED (1959-60). Agric BSc (agric.) (ord), 12, BSc (agric) (hons), 5 Arts. MA (ord), 251, MA (hons.), 106; BMus (ord), 2; EdB, 6, BLitt, 3, BD, 9, LLB, 22, BL, 18, DLitt, 2 Dent BDS, 31 Med MB ChB, 164, MD, 12, ChM, 4 Pure sci BSc (ord), 81, BSc (hons), 106, DSc, 2, BSc (appl chem) (ord), 7, BSc (appl chem.) (hons), 19, BSc (engin.) (ord), 112; BSc (engin.) (hons), 32, BSc (pharm.) (ord), 8, BSc (pharm.) (hons), 11; BSc (archit) (hons), 1 Vet med: BVMS, 21 PhD (all facs.) 68

DIPLOMAS AWARDED (1959-60) DPA, 17, DipEd, 25, DPH, 10

CERTIFICATES AWARDED (1959-60). Dramatic studies, 5, soc study, 11, indust. admin., 6

ROYAL COLLEGE OF SCIENCE AND TECHNOLOGY, GLASGOW*

Founded 1796, affiliated to the University of Glasgow, 1913

Postal Address George St, Glasgow, C 1, Scotland

Cables and Telegrams Royal College of Science and Technology, Glasgow

Telephone: Glasgow, Bell 4400-9

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ADVISER OF STUDIES—J M LEITCH, BSc Glas, FRIC

LIBRARIAN—C G WOOD, FLA

RESIDENT ARCHITECT—J MCCORMICK

TEACHING STAFF

Applied Microbiology and Biology

Morris, E. O., BSc PhD Birm	Prof	Mitchell, T. J., PhD Glas, FRIC	Principal Lectr.
Meyrath, J., DTechSc Zur.		Gibb, W., BSc PhD Glas.	Sr Lectr
(Microbiol.) Sr Lectr.		Gardner, R. G., BSc PhD Glas	Lectr
Lloyd, Blodwen, MSc Wales, PhD Glas.		Bengough, W. I., BSc Wales, PhD Camb.	Lectr.
(Biol) Sr Lectr.		Slessor, C. G. M., BSc PhD Edin	Lectr
McIntosh, A. F., BSc Glas.	Lectr.	MacDonald, B. B., BSc PhD Glas.	Lectr
Provan, Margaret S., BSc Glas.	Lectr.	Cox, L. R., BSc Lond	Lectr
Hutchison, W. M., BSc PhD Glas.	Lectr.	Smith, D.	Asst Lectr
Blain, J. A., BSc PhD Glas.	Lectr		
Smith, J. E., BSc Glas, PhD Mamt	Lectr.		
Allan, M. C., BSc Glas	Asst. Lectr		
Dunachie, J. F., BSc Glas	Asst. Lectr.		
MacLeod, D. G., BSc Glas	Asst Lectr.		
O'Neil, G. J., BSc Glas.	Asst. Lectr.		

Chemistry

Pauson, P. L., BSc Glas., PhD Sheff,	
FRIC	Freelance Prof.
McLean, J., BSc PhD Glas, FRIC	

Principal Lectr.

Architecture and Building

Fielden, F., MA Durh, FRIBA	Prof, Dir of Archit. Studies
MacLean, A., BA Manc	Sr Lectr
Paterson, D. S	Sr Lectr
Lyon, T. F	Sr Lectr
Murray, J. E.	Lectr
Brodie, Margaret B., BSc Glas	Lectr
Selby, F., DiplIngArch Bert	Lectr
Morrison, R. S	Lectr
Morris, E. N	Lectr.
Mochrie, A. J., BSc Glas	Lectr
Wilson, J.	Lectr.
Bootton, H. W., BA Durh.	Lectr.
Longbone, J. M., DipArch Durh.	Lectr

Good, W., DSc Zur	Sr Lectr.
Sharp, D. W. A., MA PhD Camb	Sr Lectr
Anderson, H. G. A., BSc Glas, FRIC	Lectr
Alexander, W. A., BSc Lond, FRIC	Lectr
Syme, A. C., BSc PhD Glas.	Lectr
Sharp, W., BSc PhD Glas, FRIC	Lectr
Bladon, P., PhD Lond	Lectr.
Wood, H. C. S., BSc PhD St And.	Lectr
Brown, D. H., BSc PhD Glas.	Lectr
Proctor, G. R., BSc PhD Aherd	Lectr.
Jeffreys, J. A. D., MA DPhil Oxon	Lectr.
Knox, G. R., BSc PhD Sheff.	Lectr.
Nonhebel, D. K., BSc Lond., DPhil Oxon	Lectr
Lawrie, W., BSc PhD Glas	Lectr.
Hyde, A. J., BSc PhD Sheff.	Lectr.
Swinton, F. L., BSc PhD St And	Lectr
Ross, R. A., BSc PhD Glas.	Lectr.
Sherwood, J. N., BSc PhD Durh	Lectr.
Shillaker, B., BSc Durh	Asst. Lectr.

Chemical Technology

Ritchie, P. D., BSc PhD St.And., FRIC	
	Young Prof

* Additional Member of the Association of Universities of the British Commonwealth

Colour Chemistry and Dyeing

Giles, C H, BSc PhD *Leeds*, DSc *Glas*,
FRIC Sr Lectr

Engineering, Electrical

Bruce, F M, MSc PhD *Durh*, MIEE Prof.
Principal Lectr.
Fairley, E S, BSc PhD *Glas*, MIEE Sr Lectr
Jelonek, Z J, Dipping *Warsaw*, MIEE Sr Lectr
Matthews, J. E., BSc PhD *Lond* Sr Lectr
Martin, W H., BSc *Glas*. Lectr
Pender, J T., BSc *Glas* Lectr
Wood, W S., BSc *Edin* Lectr
Langhorne, T B., BSc *Lond* Lectr
Aked, A., BSc *Glas* Lectr
Cochrane, I., BSc PhD *Glas* Lectr
Douglas, A M. Lectr
Telford, D J., BSc PhD *Glas* Lectr
Pirie, E Lectr
McNaul, J., BSc Lectr
Kirkland, I. Lectr
Flynn, F Asst Lectr.

Engineering, Mechanical, Civil and Chemical

Thomson, A S. T., DSc PhD *Glas*,
MIMEchE (Mech E.) Prof, Hd of Dept
Frazer, W., BSc PhD *Glas*. (Civil E.) Prof
Scott, A. W., CBE, BSc PhD *Glas*,
MIMEchE (Chem E.) Prof.
Orkney, J C., BSc *Glas*, MIMEchE
(Mech E.) Assoc Prof
Laird, A M., BSc *Glas*, MIMEchE
(Appl Thermodynamics) Principal Lectr
McBroom, H L., BSc PhD *Glas*
(Mechanics of Fluids) Principal Lectr.
Moir, C M., BSc *Lond*, PhD *Glas*
(Struct E.) Principal Lectr
Kenedi, R. M., CH *Lima*, BSc PhD *Glas*.
(Strength of Materials & Design)
Principal Lectr.
McHutchison, W. B., BSc *Lond*. Sr Lectr
Stabler, G. V., BSc *Durh.*, MIMEchE Sr Lectr
Hendry, R., BSc *Glas* Sr Lectr
Swinbanks, D B., DIC, BSc *Lond* Sr Lectr
MacLaren, J F T., BSc PhD *Glas*,
MIMEchE Sr. Lectr.
Harvey, J M., BSc PhD *Glas*,
MS *Stan*. Sr Lectr
McKinlay, D. G., BSc *Glas* Sr Lectr
Tudhope, R G., BSc *Glas* Sr Lectr
White, R., BSc *Glas* Sr Lectr
Allan, T., BSc *Lond* Sr Lectr
Dykes, A. R., BSc *Glas* Sr Lectr
Webster, J. T., BSc *Lond*. Sr Lectr
Brown, J., BSc *Lond*. Lectr
McWee, D Lectr
Neilson, J H., BSc *Glas*. Lectr
Blair, M., BSc *Glas*. Lectr
Rachman, D., BSc *Glas* Lectr
Joss, E J., BSc *Glas*. Lectr
Lauder, W., BSc *Glas*. Lectr
Holmes, W T., BSc *Glas* Lectr
Crawford, R. A., BSc *Glas*. Lectr

Paul, J. P., BSc *Glas* Lectr
Wooldridge, D Lectr.
Beggs, G C., BSc *Belf*. Lectr.
Shearer Smith, W Lectr
Kerr, S. V., BSc *Glas* Lectr
Jackson, R W., BSc *Lond*, PhD *Glas*. Lectr.
Lough, A L., BSc *Glas* Lectr
Tooth, A S., MSc *Mane* Lectr.
Kirkpatrick, W. M., BSc PhD *Glas* Lectr
Baillie, G A. M., BSc *Glas*, MA *Camd*. Lectr.
Bennet, D J., BSc *Edin* Lectr.
Kras, F E., MSc *Lond*. Lectr
Rutchie, A. G. B., BSc *Glas* Lectr.
Robertson, E R., BSc *Glas* Lectr
Smith, A A., BSc *Glas* Lectr
McLaughland, J., BSc *Glas* Lectr
Rooney, D H Lectr
Simpson, W G. Lectr
Mills, R D., BSc *St. And.*, PhD *Lond* Lectr
Clarke, D., BSc *Durh* Lectr
Bradford, A M., BSc *Glas* Lectr
Aitken, R B., BSc *Glas* Lectr.
MacDuff, I B., BSc *Glas* Lectr
Kubie, R M., BSc *Glas* Lectr.
Hartley, G E., MA *Camd*. Lectr
Black, M M., MSc *Durh*. Lectr
Webster, J T W., BSc *St And*. Lectr
Reid, D., BSc *Glas* Lectr
Barr, D I H., BSc PhD *Glas* Lectr
Patrick, J K., BSc *Glas*. Lectr.
Davidson, R., BSc *Glas* Lectr.
Barrowman, E. M. Lectr.
Ross, D S., BSc *Lond*, PhD *Glas*. Lectr
Hossack, J. D. W., BSc *Glas*. Asst Lectr
Worral, R D., BSc *Durh* Asst Lectr.
Eliasson, E T., BSc *Glas* Asst Lectr

Engineering, Mining

Hibbeld, G., PhD *Glas* Prof
Flett, W R., BSc *Glas*, FGS Sr. Lectr
Stewart, A W K., BSc *Glas* Sr Lectr
Burnett, W R., BSc PhD *Edin* Sr Lectr
Bryce, M W., BSc *Glas*, MICE Lectr
Cuirie, J., BSc *St And* Lectr.
Bowes, G E., BSc PhD *Glas*. Lectr
Maxwell, G M Lectr.
Jones, I O., BSc *Wales* Lectr
Greenland, B., MSc *Wales* Lectr

Food Science

Hawthorn, J., BSc PhD *Glas*, FRIC Prof
Leitch, J M., BSc *Glas*, FRIC Sr Lectr.
Duckworth, R B., BSc *Leeds*,
PhD *Aberd*. Lectr
Wight, J., BSc *Glas* Lectr.
Tonseth, E I., MSc *Corn* Lectr.
Clegg, Mary, K., MSc *Mane*, PhD *Aberd* Lectr.
Morrison, W R Asst Lectr

Health Physics

Ward, A., BSc PhD *Glas* Sr Lectr

Industrial Administration

Macrae, C., CBE, MA *Glas*, DPhil *Oxon*. Prof.

Gay, W A, BSc Glas.	Sr Lectr	Weaver, C, BSc Lond	Lectr
Loudon, J	Sr Lectr	McKenzie, A S. V., BSc Edin.	Lectr.
Costain, G. D., BCom Lsv.	Sr Lectr	Luffman, D., MA Camb, BSc Wales	Lectr.
Clarke, I F., MA Lsv.	Sl Lectr	Cole, J F I., MSc Belf	Lectr
Glen, E	Lectr	Griffiths, L J., BSc PhD Wales	Lectr.
Cameron, D	Lectr	Little, J., BSc Edin	Lectr
Shaw, R K	Lectr	Stern, F., BSc PhD Edin	Lectr.
Monaghan, W., BSc Glas	Lectr	Boag, T R., BSc Glas	Lectr.
Allan, W G	Lectr	Jones, D A., BSc PhD Wales	Lectr.
Butt, J., BA Lond	Lectr	Henderson, G., BSc Glas	Asst. Lectr
Lomax, E S.	Lectr.	Angell, W R., BSc Mass	Asst. Lectr.
Robertson, T.	Lectr	MacInnes, I	Asst. Lectr.
Gordon, D. R., MA Oxon	Lectr	Murray, I.	Asst. Lectr.
Eels, F R., MA St And	Lectr		
Jack, A B., MA Glas	Lectr		
Pickett, J., BSc Lond	Lectr		
Green, P., MA Leeds	Lectr		
Gregory, M. J., BA Oxon	Lectr		
Foster, R	Lectr		

Mathematics

Pack, D C., MA Oxon, DSc St And	Prof	Corse, Capt J R	Supt
Lord, R D., MSc Lond	Sr Lectr.	Hunter, Capt A	Sr Lectr
Noble, B., BSc Aberd., MA Camb	Sr Lectr	Hill, Capt R T W.	Sr Lectr.
Helliwell, J B., BSc PhD Leeds	Sr. Lectr	Baldwin, Capt G. D	Lectr.
Eason, G., MSc PhD Burm	Sr Lectr	Brown, Capt. H H., DSC	Lectr
Williams, W D., BSc Wales	Lectr	Bleazard, Capt W C	Lectr
Eaton, J C., MA Glas	Lectr.	Kennedy, Capt D. M	Lectr.
Martyn, W., MSc Lond	Lectr	Warden, Capt A.	Lectr
Bartlett, C C., MSc Durh	Lectr	Callender, Capt A	Lectr.
Smyth, J L., MA PhD Belf	Lectr	Watkinson, Capt D	Lectr
Murr, W. W., BSc St And, PhD Edin.	Lectr.	Douglas, Capt J A	Lectr.
Crane, L. J., BSc PhD Glas	Lectr	Forrester, R J., BSc Glas	Lectr.
Howie, A. J., MA Glas, PhD Edin	Lectr	Watters, Capt D.	Lectr.
Fraser, J G., BSc Glas	Lectr.	Wallace, K M.	Lectr.
Sweet, Mrs Myrtle V., BA Camb.	Lectr		
McGregor, D. D., MA Edin	Lectr		
Warner, F J., MSc Lond	Asst. Lectr		
Weir, D G., MA PhD St And	Asst Lectr		
Welsh, R L., BSc St And	Asst. Lectr.		
Lamont, P J C., BSc Glas	Asst Lectr		

Metalurgy

Ellwood, E C., BSc PhD Lond, FIM	Prof		
Taylor, J., MSc PhD Durh, FIM			
	Principal Lectr		
McLeod, J M., BSc PhD Glas, FIM	Sr Lectr		
Bell, H B., BSc PhD Glas, FIM	Lectr		
Cooper, A. H., BSc PhD Glas	Lectr.		
Kennedy, R., BSc PhD Glas	Lectr		
Downie, D. B., BSc Glas	Lectr		
Fabian, D. J., BSc PhD Lond	Lectr.		
McLean, A., BSc Glas	Asst Lectr.		

Natural Philosophy

Irving, J., MA Glas, PhD Burm	Fréland Prof		
Sharpe, J W., MA Glas, FIP	Sr Lectr.		
Jacob, L., PhD DSc Lsv, FIP	Sr Lectr		
Symon, F J., BSc PhD Glas.	Lectr		
MacNeill, A C M., MA BSc Glas	Lectr		
Bagnall, L., MA Glas	Lectr		
McLaren, A. S., BSc Glas	Lectr		
Wylie, T. S	Lectr		

Physics, see Natural Philos.

Textile Technology

Meredith, R., DSc Manc., FIP, FTI	Prof		
Taylor, E G., BScTech Manc.	Principal Lectr		
Marvin, A. W	Lectr		
Elder, H M	Lectr		
Grosicki, Z	Lectr		
Peacock, N., MA Camb., MSc PhD Leeds	Lectr.		
Cochrane, A	Instr.		

OTHER STAFF

Physical Trg Instr D. Matheson.

GENERAL INFORMATION

Founded in 1796 under the will of Prof John Anderson, Anderson's Coll was, in 1886, joined with the Coll of Science and Arts (1823), the first 'mechanics' instrn., itself an offshoot of the original Anderson's Coll, and with the Atkinson Instrn (1861) in the Glasgow and West of Scotland Technical Coll. From 1912 the coll was known as the Royal Technical Coll and in 1956 H.M. the Queen approved the title of the Royal Coll of Science and Technol, Glasgow. The coll was affiliated with the Univ of Glasgow in March 1913 and was recognized by the University Grants Committee and placed on the list of univ instrns. receiving grant from the Treasury in 1919.

CONSTITUTION. The coll operates under the city of Glasgow Royal Technical Coll scheme, 1935, of the educul endowments commission, and has a bd of governors (30), of whom half are apptd by the bd. and the others are representative of facs, instrns., learned socs and public bodies. The governors are responsible to the Scottish Education Dept for the management of all coll affairs, academic matters are under the immediate control of a bd of studies consisting of hds of depts with reps of the non-professorial staff.

INCOME (1959-60) £859,594 (fees, 12 per cent; donations, etc., 0.4 per cent; endowments, 0.7 per cent; parliamentary grants, 86.1 per cent; other income, 0.8 per cent).

BUILDINGS The main coll. bldg., which is situated in the centre of Glasgow, was completed in 1910. Built on a very liberal scale, it proved adequate for the expanding work of the coll until just before 1939 when a small extension was added. Since then a major extension for mech., civil, chem and mining engin, and a large students' union have been added and bldgs. acquired for a dept of food sci and the sch. of navigation. The gift of a mansion house and grounds near Glasgow in 1955 provided the nucleus of what is now a residential centre for management studies. Site work began on further extns to occupy total island area and to house chem., chem engin, chem technol and mech. engin. These should total 153,000 sq. ft. and the rehousing will give an opportunity to other depts for much-needed expansion.

LIBRARIES The Andersonian libr, commemorating the founder of the coll, houses an extensive range of technical and scientific publications. (over 54,000), incl many of historical interest, the founder's libr and the James Young collection of early alchemical, metall. and chem books. There are also deptl libr.

LABORATORIES. Ample facilities for undergrad. and postgrad. work of the highest standard.

ADMISSION. Admission to courses leading to

degrees of the Univ of Glasgow is conditional upon obtaining an attestation of fitness from the Scottish Univs' Entrance Bd (see Appendix III). The conditions for admission to associateship courses are broadly similar, except that a pass in a foreign lang is not essential. Students wishing to read for external degrees of the Univ of London must satisfy the admission requirements of that univ (see Appendix III).

Courses Under the affiliation ordinances, the coll provides full qualifying courses for hons degrees of the Univ of Glasgow in civil, mech., chem., electr and mining engin, appl chem, appl chem (metall.), appl. chem (ceramics), pharm, archit., appl. bacteriol, food sci., textile sci., and in appl maths, appl phys. for the Univ of Glasgow ord degree BSc(Tech). For the associateship of the coll (ARCSST), courses of 4 yrs. are provided in civil, mech., electr., chem and mining engin, naval archit., appl chem., metall., ceramics, appl maths, appl phys., pharm., food sci., microbiol, bldg and textile technol. Entrance qualifs for the associateship courses are given in the *Prospectus of Full-time Courses*.

Courses (1 yr) for coll postgrad. dipl. in advanced studies (DRC) are available in appl maths, appl phys, chem. process devel, polymer sci; extraction metall; phys metall, mech engin, power engin (incl nuclear power), prodn engin, civil engin, struct engin, environmental control engin & resource utilization, electr. engin, mining engin, mining geol; appl geophys, pharmaceut. chem; appl biochem, naval archit, food sci, microbiol.; textile technol, town planning.

The Glasgow Sch of Archit is constituted by the depts of archit. in the coll. and the Glasgow Sch of Art under a jt. cttee of governors, and issues dipls in archit (5 yrs) and postgrad dipls in town planning (5 terms).

The dept of indust admin in the coll, together with the dept of business admin in the Scottish Coll of Commerce, form the Glasgow Sch of Management Studies under a jt cttee of governors and make jt provision of courses in personnel management (1 yr), indust management (1 yr) and dipl in management studies (4 yrs pt-time). The coll residential centre for management studies at 'Chesters', Bearsden, nr Glasgow, has accomm. for 54 students. A sp feature of the work of the centre is a series of short full-time courses for persons nominated by firms.

In pt-time classes the coll offers a very wide range of technol courses at advanced and postgrad. level. Under the scheme of the W. of Scotland cttee for technical educn., the coll classes form the apex of an educul. pyramid, and pt-time

students from all parts of the W. of Scotland can complete their courses at the Royal Coll of Science and Technol. The courses below advanced level are conducted by the various education authorities.

RESEARCH. Students can pursue res for higher degrees of the Univ of Glasgow and for coll postgrad dipl. In addn to fundamental res, the coll. works in close co-operation with res assocns and industry. This is a sp. feature of coll. policy, which adds greatly to its res. resources and makes possible work on problems of current interest, sometimes on pilot plant and even larger scale. *A Report on Research* is publ. annually by the coll.

TUITION FEES. Degree courses—engin, appl chem, pharmacy and archit, associateship courses, and other non-degree courses, postgrad courses, £55 p.a., environmental control engin & resource utilization, £75 p.a. Fees for courses in indust admin and for pt-time classes are shown in the relevant prospectuses.

ACADEMIC YEAR. Oct to June. 3 terms of 10 wks each.

FORMER STUDENTS' ASSOCIATION. Formed in 1936. Copies of the *Annual Report* of the coll are circulated to all members and social functions

arranged regularly. A live register of members is kept by the hon. sec at the coll and members going overseas have valued the introductions provided by the assocn. Branches of the assocn. are active in Glasgow, London, Newcastle upon Tyne, Birmingham, S. Africa, Canada and Norway. Life membership is available to qualified applicants at a fee of £15.

RESIDENCE. Lockview Hall, 1085 Gt Western Rd, Glasgow (tel.: Kelvin 3262), accomm. 50 male students. Fees £3.10s per week.

STUDENT ASSOCIATIONS. The student body acts through the students' representative council and joins with others in the Scottish Union of Students. There is a sports ground at Cambuslang and there are the usual facilities for indoor games. The coll. has a mod. gymnasium with a phys trg instr. A large new union has been completed.

PUBLICATIONS. *Prospectus of Full-time Courses*, *Prospectus of Pt-time Classes*, *Biosaries*, *Scholarships & Prizes*, *Prospectuses* for the following: sch. of archit, sch. of navigation, 'Chesters' residential centre for management studies, *Courses of Postgrad Study*; *Environmental Control Engin & Resource Utilization*; *Annual Report*, *Report on Research*.

THE YEAR 1960

NEW DEPARTMENTS. Appl. microbiol & biol.
RETIREMENTS. J. A. Garrick (mech engin).
RESIGNATIONS. Dr J. Boyes (indust admin), apptd. dir. of studies, Ashridge Coll., J. Brown (food sci), apptd. to teaching post, local auth., A. D. Cordner (archit), to private practice, J. J. Doherty (pharm), apptd. to Med Res Council of Ireland, J. M. Fletcher (mech engin), apptd. to post in indust, Dr. A. B. Hart (chem), apptd. to post in indust, A. McKenzie (food sci), apptd. to teaching post, local auth., R. D. Potter (mining engin), apptd. lectr. Wales, Dr. F. Rumford (chem technol), apptd. to chair of chem engin, Inst. of Technol., New Delhi, A. J. Sharples (maths), apptd. lectr. Liv., T. D. Smith (chem), apptd. lectr. Wales, E. C. Styles (food sci), apptd. to post in indust.

DEATHS. Prof J. S. Rankin (nat. philos.), G. Shearer (electr engin).

Statistics

STUDENT NUMBERS, 1960-61

	Full-Time	Part-Time
Men	1581	2729
Women	114	80
Total	1695	2809

Distribution by Courses. (a) Full-time—civil engin, 196; mech engin, 392; chem engin, 76; prodn engin, 4; electr engin, 211; environ engin, 4; mining engin, 32; naval archit., 40;

appl. chem, 206; metall, 88; appl. phys., 52; appl. maths, 28; bldg technol., 19; textile technol., 18; food sci, 23; microbiol., 10; pharm, 156; archit, 104; town planning, 2; navigation (extra masters), 10; indust admin, 24. (b) Part-time—civil engin, 196; mech engin, 333; chem engin, 16; electr engin, 75; mining engin, 44; municipal engin, 12; sanitary engin, 6; naval archit, 58; prodn engin, 64; struct engin, 42; appl chem, 43; metall, 3; ceramics, 7; gas manuf, 8; appl phys, 53; maths, 121; bldg technol. & quant surv, 277; textile technol., 87; food sci, 3; microbiol., 31; pharm, 8; archit., 76; town planning, 12; navigation, 597; indust admin., 637.

DEGREES AWARDED (by Univ of Glasgow) (1959-60) BSc in engin—civil, 6; mech., 18; electr., 17; chem, 10; mining, 9; archit, 1; appl chem, 19; appl chem. (metall), 7; pharm, 19. PhD (all facs), 20; DSc, 1. Total number of first degrees awarded, 106.

DIPLOMAS, ETC., AWARDED (1959-60) (a) *Associateships*—civil engin., 34; mech. engin., 87; electr. engin., 26; mining engin., 4; naval archit., 4; chem. engin., 8; bldg. technol., 10; chem technol., 15; chem, 10; metall, 18; appl phys., 8; appl. maths, 3; pharm, 7; food sci., 3; textile technol., 2. (b) *Postgrad dipls.*—environmental control engin., 5; civil engin., 2; mech. engin., 1; prodn engin., 3; power engin incl nucl. power, 1; electr. engin., 3; chem technol., 9; chem., 1; metall, 1; textile technol., 1.

UNIVERSITY OF ST. ANDREWS§

Founded 1410

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Queen's College, Dundee—Dundee 22631

CHANCELLOR AND PRESIDENT OF THE GENERAL COUNCIL—His Grace THE DUKE OF HAMILTON, KT, GCVO, AFC, LLD
RECTOR AND PRESIDENT OF THE UNIVERSITY COURT—Sir CHARLES SNOW, CBE, PhD *Camb*, Hon LLD *Leic & Liv*, FRSL
PRINCIPAL AND VICE-CHANCELLOR—Sir MALCOLM KNOX, MA *Oxon*, LLD *Edin & Penn*
MASTER OF ST. SALVATOR'S COLLEGE—Professor J N WRIGHT, MA *Durh*.
MASTER OF QUEEN'S COLLEGE—Professor A A MATHESON, QC, MA LLB *Edin*
PRINCIPAL OF ST MARY'S COLLEGE—Rev Professor M. BLACK, MA DD DLitt *Glas*, DrPhil *Bonn*, DrTheol *Mün.*, FBA
SECRETARY AND REGISTRAR—A N. MITCHELL, OBE, MA *Oxon*
QUESTOR AND FACTOR—J DUNCAN, CA
JOINT LIBRARIANS—D. MACARTHUR, MA BSc *Glas.*, FLA; J R. BARKER, MA *Oxon*, FLA

TEACHING STAFF

[* = at Queen's College, † = Part-Time]

Anatomy

Walmsley, R, MD *Edin.*, FRCSEd Bute Prof
Smith, J W., MD (Regional A) Sr. Lectr.
Frame, J., MB ChB *Glas.* Lectr
Rintoul, J. R., BSc MD Lectr
Mair, W F., TD, MD *Edin.* Asst.
McAdam, W. A. F., MB ChB Demr.
Coupland, R. E., MD PhD *Leeds* Cox Prof *
MacDougall, J. D. B., MD Sr. Lectr. *
Smart, I. H. M., MB ChB *Edin* Lectr *
Gillespie, R., MB ChB Demr *
Nicol, W J., MB ChB Demr *
Strachan, I. M., MB ChB Demr. *

Blackler, Margaret C. H., BSc PhD *Liv.*, FLS Lectr
Weeks, D. C., BSc *Milnb*, MA PhD *Camb* Lectr
Spence, D. H. N., BSc *Edin.*, PhD *Glas* Lectr.
Davidson, D., BSc *Durh*, DPhil *Oxon* Lectr
Nicolson, T. H., BSc *Aberd*, PhD *Nott.* Lectr *
Hastie, A. C., BSc *Glas* Lectr *

Chemistry

Read, J., BSc *Lond*, MA ScD *Camb*, DrPhil *Zür.*, FRS
Purdie Prof, Dir of Chem. Res Lab
Horrex, C, MSc PhD *Manc* Sr. Lectr.
Gunstone, F. D., BSc PhD *Liv* Sr. Lectr
Lloyd, D. M. G., BSc *Brist* Lectr.
Reid, D. H., BSc PhD *Edin* Lectr
Calvert, D., BSc PhD Lectr.
Cameron, G. G., BSc *Glas* Lectr
Worrall, I. J., BSc PhD *Nott.* Lectr
Moyes, R. B., BSc Asst
Sugden, Mrs Penelope A., BSc Demr
Walsh, A. D., MA PhD *Camb*, FRIC

Astronomy

Subbs, D. W. N., MSc *Syd.*, DPhil *Oxon*
Napier Prof.
Carson, T. R., BSc PhD *Belf* Sr. Lectr.
Slebarski, T. B., MA Lectr.
Meadows, A. J., MA DPhil *Oxon.* Lectr.

Biochemistry, see Physiol.

Botany

Macdonald, J. A., BSc PhD *Edin*, DSc Prof. Roger, R., BSc PhD, FRIC Baxter Prof *
Sr. Lectr. *

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Copp, J. L., BSc MA <i>Oxon</i> , PhD	Sr Lectr *	Hall, A. P., BSc PhD	Lectr.
Watson, Mrs Kathleen M., BSc PhD <i>Edin</i> .		Gibb, A., BSc	Lectr
	† Lectr *	Williamson, R. L., BSc <i>Lond</i>	Lectr.
Hoare, D. E., MA <i>Camb.</i> , PhD <i>Leeds</i>	Lectr *	Davidson, I., BSc <i>Aberd</i>	
Nechvatil, A., MSc PhD <i>Lond.</i>	Lectr *	(Mech E & Machine Design)	Lectr.
Bethell, D. E., BA PhD <i>Camb</i>	Lectr *	Jackson, N., BSc PhD <i>Leeds</i>	Lectr.
Foster, R., MA DPhil <i>Oxon</i>	Lectr *	Craig, R. F., BSc	Lectr.
Jameson, R. F., BSc PhD <i>Lond.</i>	Lectr *	Watt, D., BSc	Lectr.
Iball, J., PhD DSc <i>Wales</i> , FIP	† Lectr *		
Stewart, K. T., MSc PhD <i>Cape T.</i>	Lectr *	Engineering, Electrical*	
Neilson, D. G., BSc PhD	† Lectr *	Cullwick, E. G., OBE, MA <i>Camb</i> , DSc	
McGavin, A. S., BSc PhD	† Lectr *		
Wright, P. G., MA PhD <i>Camb.</i>	Asst.*		
Allen, C. R., BSc PhD <i>Leeds</i>	Asst.*		

Classics, see Greek, and Latin

Dentistry, see below

Divinity

Black, Rev M., MA DD DLitt <i>Glas</i> , DrPhil <i>Bonn</i> , DrTheol <i>Min.</i> , FBA	
(Bibl Crnt) Prof	
Baxter, J. H., MA DD <i>Glas</i> , BD <i>Aberd</i> ,	
DULouann, DLitt (Eccles Hist) Prof.	
Dickie, E. P., MC, BA <i>Oxon.</i> , MA	
DD <i>Edin</i>	Prof
Whyte, J. A., MA <i>Edin</i>	
(Practical Theol & Christian Ethics)	Prof

Robinson, N. H. G., MA DLitt <i>Glas</i> , BA <i>Oxon</i> , BD <i>Edin</i>	
(Systematic Theol) Prof	
Wilson, R. M., MA BD <i>Edin</i> , PhD <i>Camb</i>	
(N T Lang & Lit) Lectr	
Cameron, J. K., PhD <i>Hartford</i> , MA BD	
(Eccles Hist) Lectr	
Davidson, R., MA BD	
(O.T. Lang & Lit.) Lectr.	

Economics

Nisbet, J. W., MA LLB <i>Glas</i> .	Prof.
Cole, A. V., MA	Lectr
Blake, C., MA	Lectr.
M'Dowall, S., MA	Lectr.

Economics, Applied*

Campbell, A. D., MA <i>Glas</i>	Bonar Prof
Eastham, J. K., BSc <i>Lond</i>	Sr Lectr
Pattison, Jean S., BCom MA <i>Edin</i> ,	
PhD <i>Lond</i>	Lectr
Jackson, J. M., BA <i>Wales</i> , PhD <i>Mane</i>	Lectr
Livesey, F., BA <i>Mane</i> .	Lectr
Henderson, P., MA <i>Aberd</i>	Asst.

Education*

Adams, J. W. L., BA <i>Oxon</i> , MA	• Bell Prof
McFarland, H. S. N., MA <i>Aberd</i> ,	
BEd <i>Edin</i>	Lectr
Sturrock, G. W., BEd <i>Edin</i> , MA	† Lectr

Engineering, Civil and Mechanical*

Duck, J., BSc <i>Glas</i> , MA <i>Oxon</i> , PhD <i>Sheff</i> .	Prof.
McNicol, W., BSc	Sr. Lectr.

English Language and Literature

Falconer, A. F., MA <i>Glas</i> & <i>Oxon.</i> , BLitt <i>Oxon</i> .	Berry Prof
Oakden, J. P., MA PhD <i>Mane</i> , DLitt <i>St</i>	Lectr
Logan, R. M., MA <i>Edin</i>	Lectr
Ladd, C. A., MA <i>Oxon</i>	Lectr
Coulson, T. H., BA <i>Oxon</i> .	Lectr
Smith, J. N., MA BLitt <i>Oxon</i> .	Lectr
Alexander, R. N., MA	Lectr.
Carnie, R. H., MA PhD	Lectr.*

French Language and Literature

McFarlane, I. D., MBE, DU <i>Paris</i> , MA <i>Camb.</i> & <i>St And</i>	Prof.
Brumfitt, J. H., MA DPhil <i>Oxon</i>	Sr. Lectr
Wilson, R. A., MA PhD	Lectr
Owen, D. D. R., MA PhD <i>Camb</i>	Lectr
Ouston, P. A., MA <i>Lond</i>	Lectr
Price, G., MA <i>Wales</i> , DU <i>Paris</i>	Lectr
Allott, T. J. D., BA <i>Oxon</i>	Asst
O'Sharkey, Eithne M., MA PhD <i>N U.I.</i>	Lectr *
4 Lecteurs	

Geography

MacIver, Kathleen M., MA <i>Oxon</i> , PhD <i>Edin</i>	Sr. Lectr.
Paterson, J. H., MA <i>Camb</i> & <i>Wis.</i>	Lectr.
Whittington, G. W., BA PhD <i>R'dg.</i>	Asst
Jones, S. J., MA <i>Wales</i>	Sr. Lectr.*
Turner, W. H. K., MA <i>Wales</i>	Lectr *
Jones, H. R., BA <i>Wales</i>	Asst

Geology

Davidson, C. F., OBE, DSc	Prof
Drever, H. I., BSc <i>Edin</i> , PhD <i>Camb.</i>	Sr. Lectr.
Harry, W. T., BSc <i>Leeds</i>	Lectr
MacGregor, A. R., BSc <i>Glas</i> , MSc <i>McG.</i> , PhD <i>Camb.</i>	Lectr
Weir, J. A., BSc PhD <i>Glas</i> .	Lectr
Williamson, T. F., BSc	
(Topographical Surveying) † Lectr	
Hopgood, A. M., MSc <i>N Z</i>	Asst
Walker, F., MA <i>Camb</i> , PhD DSc <i>Edin</i> .	
	Sr. Lectr *

Richey, J. E., BA ScD *Dub*, FRS
Ramsay, D. M., BSc PhD *Glas.*

German

Carr, C. T., MA *Manc*, DLitt
Brill, E. V. K., TD, MA
Lindsay, J. M., MA PhD *Aberd*
Strachan, T., MA
Trauer, J., MA PhD
Branscombe, P. J., MA *Oxon*
Robertson, A. G., MA
2 Lektors

Greek

Dover, K. J., MA *Oxon*
Young, D. C. C., MA *Oxon.* & *St. And*
Kidd, I. G., BA *Oxon*, MA
Henry, A. S., MA

Hebrew and Oriental Languages

Honeyman, A. M., BD *Edin*, PhD *Chic*,
MA BLitt
Bosworth, C. E., MA *Oxon* & *Edin*
(Arabic Lang & Lit) Lectr
Ghul, M. A., LèsL *Caro*
(Semitic Langs) Lectr

History, American and Colonial

Seed, G., MA *Durh*, AM *Mich*, PhD Lectr

History, Ancient

Ewins, Ursula E., MA *Oxon* Lectr

History, Economic

Carstairs, A. M., MA BPhil Sr Lectr.

History, Mediaeval

Butler, L. H., MA DPhil *Oxon*, FRHistS Prof.
Adam, R. J., MA *Oxon* Sr Lectr
Watt, D. E. R., MA *Aberd*, DPhil *Oxon* Lectr
Dobson, R. B., BA *Oxon* Lectr
Forcy, A. J., BA *Oxon* Lectr
Walker, Lorna E. M., MA Lectr.

History, Modern

Gash, N., MA BLitt *Oxon*, FRHistS Prof.
Upton, A. F., MA *Oxon*, AM *Duke* Lectr
Erickson, J., MA *Camb* Lectr
Collyer, C., MA *Oxon* Lectr
Dreyer, F. A., BA *Oxon* & *Tor* Lectr.
Macdonald, D. F., MA *Aberd.*, DPhil *Oxon*

Lytke, S. G. E., MA *Camb* Bonar Prof.
Ward, J. T., MA PhD *Camb* Sr Lectr.
Southgate, D. G., BA *Lond*, DPhil *Oxon* Lectr.
Watson, D. R., MA BPhil *Oxon* Lectr.

History, Scottish

Cant, R. G., MA *Oxon.* & *St. And.* Reader

Latin (Humanity)

Wright, T. E., MA *Glas* & *Oxon* Prof
Mitford, T. B., MA *Oxon*, FSA
(also Class Archaeol) Reader
Simon, J. H., MA *Oxon* Sr Lectr.
Dunbar, Nan V., MA *Glas* & *Camb* Lectr
Smith, M. S., MA *Glas* & *Oxon* Lectr.
Marshall, M. H. B., MA Asst.

Law, Accountancy*

Lowden, G. S., MA *Camb.*, LLB, CAⁿ †Lectr.
Sim, R. L., CA †Asst

Law, Civil*

Hird, T. L., MA *Edin.*, LLB *Edin.* & *Lond.* †Lectr.

Law, Comparative *

Cowie, G. S., MA LLB *Aberd* Lectr

Law, Conveyancing*

McDonald, A. J., BA *Camb*, LLB *Edin* Prof
Coupar, A. J. W. R., DFM, BL †Tutor

Law, Evidence and Procedure*

Tudhope, Mrs Christian J., LLB *Edin*,
MA †Lectr.

Law, Forensic Medicine *

Dorward, W. F., BSc MB ChB †Lectr.

Law, Jurisprudence*

Bowman, B. C., LLB *Edin*, MA †Lectr

Law, Mercantile *

Robertson, I. M. S., BL †Lectr.

Law, Private International *

Cowie, G. S., MA LLB *Aberd* Lectr.

Law, Public International*

Cowie, G. S., MA LLB *Aberd.* Lectr

Law, Scots*

Matheson, A. A., QC, MA LLB *Edin.* Prof
Parker Smith, J. F., MA LLB †Lectr.
Collins, D. F., MA LLB †Lectr.

Logic and Metaphysics, see Philos**Mathematics, Pure and Applied**

Copson, E. T., MA *Oxon*, DSc *Edin* Regius Prof
Rutherford, D. E., DrMath *Amst*, MA
DSc (M & Appl M) Reader
Mitchell, A. R., PhD DSc Sr Lectr
Borwein, D., BSc *Rand*, PhD DSc *Lond.* Lectr
Mackie, A. G., MA *Edin*, BA *Camb*,
PhD (Appl. M) Lectr.

Fantham, P. H. H., BA DPhil *Oxon* Lectr.
 Lambert, J. D., BSc Lectr.
 Foster, Dorothy M. E., BA PhD *Lond* Lectr.
 Parnaby, T. W., BSc PhD *Manc* Lectr.
 Macbeath, A. M., BA *Belf*, MA *Camb*,
 * PhD *Prin* Baxter Prof.*
 Jackson, J. M., BSc *Lond*, PhD *Camb*

Jack, H., MA *Edin.*, BA *Camb* Sr Lectr.*
 Anderson, H. G., MA PhD *Edin.* Lectr.*
 Pearce, R. P., BSc PhD *Lond*, FRMetS Lectr.*
 Rushforth, J. M., BSc PhD *Birm.* Lectr.*
 Cole, A. J., MSc PhD *Lond* Lectr.*
 Sands, A. D., MSc *Belf*, PhD *Glas* Lectr.*
 Adamson, I. T. A. C., AM PhD *Prin.*,
 BSc Lectr.*
 Green, C. D., BSc PhD Lectr.*
 Wilkie, H. C., BSc Asst.*

Medicine and Surgery, see below

Music

Davie, C. T., OBE, FRAM
 Master of Music, Reader
 Demr.

Philosophy

Wright, J. N., MA *Durh*
 (Logic & Metaphysics) Prof.
 Heath, P. L., BA *Oxon* Sr Lectr.
 Smith, R. N. W., MA *Oxon.* & *Glas.* Lectr.
 Greig, G. M., MA *Edin.*, BA *Camb.* Lectr.
 (also Moral P.) Asst.
 Henderson, G. P., MA *Oxon* & *St And.* Prof.*
 Cooper, N. L., MA BPhil *Oxon* Lectr.*
 Hall, R., MA BPhil *Oxon* Lectr.*

Philosophy, Moral

Woozley, A. D., MA *Oxon* Prof.
 Kemp, J., MA *Oxon.* Sr Lectr.
 McNeill, F. S., MA *Glas.* Lectr.
 Hall, J. C., MA *Oxon* Lectr.
 Liddell, A. T. W., MA *Glas.*, BPhil *Oxon* Asst.

Physics

Allen, J. F., BA *Manst*, MA *Tor* & *Camb*,
 PhD *Tor.*, FRS Prof.
 Jack, D., MA BSc *Edin.*, PhD, FIP Reader
 Bui, D., PhD *Ley*, MA *Oxon* Reader
 Osborne, D. V., MA PhD *Camb.* Sr. Lectr.
 Barkla, H. M., MA *Camb*, BSc *Edin.*
 (on leave) Lectr.
 Adamson, J., MSc *Manc.* Lectr.
 McCall, D. M., BSc Lectr.
 Rushworth, F. A., BSc *Lond.*, PhD Lectr.
 Furth, I. M., BSc Asst.
 Preston, G. D., MA ScD *Camb*, FIP, Harris Prof.*
 McEwan, D. M. C., MA BSc PhD *Edin.* Sr. Lectr.*

Baranowski, D., BS-L *Paris*, Ingdes Mines Lectr.*
 St -Etienne Lectr.*
 Walton, G. F., MA DPhil *Oxon*, FRMetS Lectr.*
 McKie, J., BSc *Durh* (Med P.) †Lectr.*

Wilson, H. R., BSc PhD *Wales* Lectr.*
 Ferrier, W. G., BSc PhD Lectr.*
 Main, I. G., MA *Qu*, BSc PhD Lectr.*
 Young, D. W., BSc PhD Lectr.*
 Burns, D. M., BSc PhD Lectr.*
 Killeen, R. C. G., BSc Lectr.*
 Sutherland, H. H., BSc Asst.*

Physics, Theoretical

Dingle, R. B., BA PhD *Camb* Prof.
 Kuper, C. G., MA PhD *Camb*, BSc *Rand* Lectr.
 Durney, B., LSc *Paris*, PhD *Lond* Res Asst

Physiology

Ritchie, A. E., MA BSc *Aberd*, MD *Edin.*
 Chandos Prof.
 Taylor, J. H., MB ChB *Edin*, DPH Sr Lectr.
 Ingram, C. G., MB ChB *Aberd.* (on leave) Lectr.
 Stephens, W. G. S., BSc (Biophys.) Lectr.
 Bayne, S., BSc MB ChB (Biochem) Sr. Lectr.
 Tristram, G. R., BSc PhD *Liv*
 (Biochem) Sr Lectr.
 Goodlad, G. A. J., BSc PhD *Glas*
 (Biochem) Lectr.

Patterson, J. D. E., BSc *Birm.* (Biochem) Asst.
 Greig, Isabel C. A., MA BM BCh *Oxon.* Asst.
 Bell, G. H., BSc MD *Glas*, FRFPGlas

Symers Prof.*
 Cook, R. P., DSc *Melb*, PhD MB
 BChir *Camb* (Biochem.) Sr Lectr.*
 Andrew, B. L., DSc *Lond* Sr. Lectr.*
 Macqueen, A. T., MB ChB *Edin* Lectr.*
 Mitchell, F. L., BSc *Liv*, PhD *Sheff* Lectr.*
 Dutton, G. J. F., BSc PhD *Edin*

(Biochem) Lectr.*
 Hemmingsway, J. T., MA PhD *Camb* Lectr.*
 Chunnock, J. E., BSc *Lond.* Asst.*
 Alexander, E. R., MB ChB *Aberd.* Asst.*
 Cargill, D. I., BSc Asst.*
 i Demr.

Polish

Seliga, S. R., LL.M. *Poznan*, PhD *Warsaw* Lectr

Political Science*

Elder, N. C. M., MA BLitt *Oxon.* Lectr.
 Loades, D. M., BA *Camb.* Lectr.

Psychology

Ferguson, H. H., MA Lectr.
 Flock, A. J. M., BA *Lond.* Lectr.*
 Lee, T. R., MA PhD *Camb* Lectr.*
 Lovelless, N. E., MA *Edin.*, PhD *Durh.* Lectr.*

Radiation Physics and Biology*

Orr, J. C., MSc *Belf*, DIC, PhD *Lond* Lectr

Scottish Language

Murison, D. D., BA *Camb*, MA *Aberd* †Lectr.

Social Administration*

MacKnight, Mrs. Catherine O., MA *Edin*
 †Lectr.

Morrison, Rhona, MA *Glas.*
 Ferguson, Isla M., MA

Lectr
 Tutor

Spanish

Woodward, L. J., MA *Camb* Sr Lectr.
 Gifford, D. J., MA BLatt *Oxon* Lectr
 Pacheco, A. R., DPhil *Barcelona*, PhD *Glas*

Lectr
 Asst

Cummins, J. G., BA *Manc*

Statistics

Gray, J. R., BSc *Edn*, FFA Lectr
 Makinson, G. J., BSc Lectr.
 Faulkner, T. E., MA PhD *Camb* Sr Lectr *
 Hutchings, K. R., BSc *Lond.* Lectr.*

Theology, see Div.

Zoology

Callan, H. G., MA *Oxon.*, DSc *Edn.*

Kennedy Prof.

Horridge, G. A., MA PhD *Camb*

Reader

Burt, D. R. R., BSc, FLS

Sr Lectr.

Muir, C., BSc PhD *Aberd*

Lectr

Laverick, M. S., BSc PhD *S'ton*

Lectr.

Pottage, R. H., BA *Camb*

Asst

Sandeman, I. M., BSc

Asst

Boyd Baxter Prof *

Waterhouse, F. L., MSc *Manc*, PhD

Sr Lectr *

Sanderson, Ann R., BSc PhD

Sr Lectr.*

Nowosielski-Slepowron, B. A. J., BSc

Asst *

DENTISTRY*

Dental Anaesthetics, Clinical*

Lawson, J. I. M., MB ChB *Edn.*

Lectr

Nelson, N., MB ChB

†Lectr

Ferguson, J. G., MB ChB

†Lectr

Dental Anatomy and Histology*

Symons, N. B. B., BDS MSc *Belf*

Sr Lectr

Dental Diseases of Children and Orthodontics*

McEwen, J. D., LDS

(also Lectr. in Clin. D. Surg.) Sr Lectr

Dental Histopathology*

Hall, D. C., MB ChB BChD *Leeds*,

FDSRCSEd

Lectr.

Dental Jurisprudence*

Tattersall, W. R., LDS, FDSRCSEd

(also Lectr. in Clin. D. Surg.) †Lectr

Dental Materials*

Whyte, R., PhD LDS DPD, FDSRCSEd

(also Lectr. in Clin. D. Surg.) †Lectr

Dental Mechanics and Prosthetics*

Anderson, J. N., MDS *Sheff*

(also Lectr. in Clin. D. Surg.) Sr Lectr

McCrone, J. W., LDS

Lectr

Dental Surgery*

Hitchin, A. D., MDS DDS Sc *Durh*,

FDSRCSEd

Boyd Prof

Dental Surgery, Clinical*

Hitchin, Prof. A. D., MDS DDS Sc *Durh*,

FDSRCSEd

Lectr

Black, E. N., LDS

†Lectr

Conacher, F., LDS

†Lectr

Crighton, J. T., LDS

†Lectr

Milne, J. L., BDS

†Lectr

Davie, A. S., MB ChB

†Lectr

Summersgill, G. B., BChD LDS *Leeds*,

FDSRCSEd

†Lectr

Muir, A., FDSRCSEd

†Lectr.

Martin, D. A. S.

†Lectr.

Maun, D. M. G., LDS

Lectr.

Operative Dental Surgery and Dental Therapeutics*

Fairley, J. M., BDS

(also Lectr. in Clin. D. Surg.) Sr Lectr

Jeffrey, I. W. M., LDS

Lectr.

Oral Hygiene and Preventive Dentistry*

McHugh, W. D., BDS LDS DDS Sc

(also Asst. Lectr. in Clin. D. Surg.) Lectr.

Public Dentistry*

Finlayson, D. A., LDS

†Lectr

MEDICINE*

(for pre-clinical subjects—Anat., etc., see above)

Anaesthetics*

Shearer, W. M., BSc MD, FFARCS

†Lectr

Soutar, Mrs. Margaret E., MB ChB

†Lectr.

Lawson, J. I. M., MB ChB *Edin*,

FFARCS

†Lectr

Franks, E. H., MB BS *Lond.*, FFARCS

†Lectr.

Dangerfield, D., FFARCS

†Lectr.

Lawrie, R., LDS

†Lectr

Buchanan, W. E. A., MB ChB

†Tutor

Muir, Margaret C., MB ChB

†Tutor

Bacteriology*

Tulloch, W. J., OBE, MD

Prof

Sommerville, T., MD *Edn.*

Sr. Lectr

Green, D. M., MB ChB

Sr. Lectr.

Shepherd, W., MD

Lectr.

Dunbar, J. M., BSc MD

(on leave) Lectr.

Simmons, D. A. R., MD

Lectr.

Christison, Mrs. Janet N., BSc

Lectr

Dick, Mrs. Heather M., MB ChB

Asst

Child Health*

Henderson, J L, MD *Edin*, FRCPEd
 James Mackenzie Prof.
 Rhaney, K, MB ChB *Edin*, FRCPEd †Lectr.
 Forsyth, Constance C, MD *Edin* Lectr
 Fulton, Annie A, MD DPH †Asst
 Fee, W M., MB ChB *Edin*, DPH †Asst

Child Health, Clinical*

Henderson, Prof J L, MD *Edin*,
 FRCPEd Lectr.
 Thomson, J., MB ChB *Edin*, FRCPEd †Lectr.
 Mitchell, R G, MD *Edin* †Lectr.
 Forsyth, Constance C, MD *Edin* Tutor

Dietetics*

Gay, Sheila J †Asst

Diseases, Infectious*

Jameson, W M., MD DPH †Lectr
 Proudfoot, Mary E, MB ChB †Clin Asst
 Kerr, Mary R, MB ChB Tutor

Diseases, Mental*

†Lectr

Diseases, Skin*

Kinnear, J, OBE, TD, DL, MD,
 FRCPEd †Lectr
 Buchanan, T K, MB ChB †Lectr
 Rogers, J, BSc MB ChB *Glas* †Lectr.
 Frazer-Bell, W, MD, MRCPed †Lectr

Diseases, Ear, Nose and Throat*

Gibb, A G, MB ChB *Aberd*, FRCSEd †Lectr
 Mowat, J, MB ChB *Aberd*, FRCSEd †Lectr.
 Mitchell, J F O, MD *Edin*, FRCSEd †Lectr.

Forensic Medicine*

Dorward, W F, BSc MB ChB †Lectr
 Turnbull, Priscilla E, MB ChB *Edin*. †Asst
 Dorward, W. F. M, MA MB ChB *Edin* †Asst

Gynaecology and Midwifery*

Walker, J., BSc MD *Glas*, FRCOG Prof
 Macnaughton, M C, MB ChB *Glas*. Sr Lectr.
 Coyle, Mary G, MD *Glas* Lectr.

Gynaecology and Midwifery, Clinical*

Walker, Prof J, BSc MD *Glas*, FRCOG Lectr
 Herring, Jean, BSc MB ChB, FRCSEd, FRCOG †Lectr.
 Fraser, I T, MB ChB *Edin*, FRCSEd †Lectr.
 Reid, S M, MA MB ChB *Aberd* †Lectr.
 Buchan, A, MB ChB *Aberd*, FRCSEd †Lectr.
 Macnaughton, M C, MB ChB *Glas* Lectr.
 Coyle, Mary G, MD *Glas*. Lectr.
 Griffen, W D, MB ChB *Edin*, FRCSEd †Lectr

Materia Medica, see Pharmacol.**Medicine***

Hill, I. G W CBE, TD, MB ChB *Edin*,
 FRCPEd, FRCP Prof.
 Lenman, J A. R., MB ChB *Edin*,
 MRCPed (Neurol.) Sr. Lectr.

Medicine, Clinical*

Hunter, Prof R. B., MBE, MB
 ChB *Edin*, FRCPEd Lectr
 Hill, Prof I. G. W, CBE, TD, MB
 ChB *Edin*, FRCPEd, FRCP Lectr.
 Clark, J G., MD †Lectr.
 Kirkland, A. A., MD *Glas*, FRFPSSGlas †Lectr.
 Easton, I D, OBE, MB ChB *Edin*,
 FRCPEd †Lectr
 Adamson, D G, MD †Lectr
 Brown, O T, MB ChB *Glas*,
 FRFPSSGlas (Gynaecology) †Lectr.
 Walker, W, MA MB ChB Lectr.
 Semple, R, MD *Aberd* †Lectr.
 Frew, J S., BSc MB ChB *Glas* †Lectr.
 Wilson, W M, MB ChB *Edin*, FRCPEd †Lectr.
 Malcolm, G D, MB ChB *Edin*,
 FRCPEd †Lectr.
 Armstrong, J R, MA MD *Camb*. †Lectr
 Strauss, W. T, MD *Hamburg*,
 FRFPSSGlas †Lectr
 McNeill, R S, MB ChB *Edin* †Lectr
 Simpson, R G., MD *Aberd* †Lectr.
 Stalker, A M, MB ChB †Asst
 Lawson, J A R, MB ChB †Asst
 Watson, H, MB ChB *Edin* †Tutor
 Stewart, W. K, MB ChB, MRCP †Tutor
 Ritchie, R T, MB ChB *Edin*, MRCPed †Tutor
 Walkey, F. A, BA MB ChB *Dub* †Tutor

Medicine, History of*

Patrick, Emer Prof A, MA MD *Glas*,
 LL.D. *Glas* & *St. And*, FRFPSSGlas,
 FRCP, FRCPEd †Lectr.

Midwifery, see Gynaecol.**Ophthalmology, Clinical***

Douglas, A A., BSc MD ChM, FRCSEd †Lectr
 Mathers, R M, MB ChB †Lectr
 Tulloch, A K, MB ChB †Lectr.

Orthopaedics*

Muckart, R D, MB ChB *Glas*, FRCSEd,
 FRFPSSGlas Sr. Lectr.
 Smillie, I S, OBE, MB ChM *Edin*,
 FRCSEd, FRFPSSGlas †Lectr.
 Hutchison, J, MB ChB *Glas*, FRCSEd †Lectr.
 Sutherland, I D., MD *Edin*, MChOrth
Law, FRCSEd †Lectr.
 Murdoch, G, MB ChB, FRCSEd †Lectr.
 Clark, G L., MB ChB *Glas*, FRCSEd,
 FRFPSSGlas †Tutor
 Campbell, C S., MB ChB *Edin*,
 FRCSEd †Tutor
 Stewart, I. M, MB ChB, FRCSEd †Tutor

Pathology*

Lendrum, A. C., MA BSc MD <i>Glas</i>	Prof.
Park, W. W., MD <i>Edin.</i>	Sr. Lectr.
Goodall, H. B., MD	Sr. Lectr.
Morgan, H. G., BSc MB ChB	Sr. Lectr.
Smith, G. H., TD, MD	†Lectr.
Prain, J. H., MD	†Lectr.
Rhoney, K., MB ChB <i>Edin.</i> , FRCPEd (also Lectr. in Child Health)	†Lectr.
Guthrie, W., MB ChB	Lectr.
Barclay, G. P. T., MB ChB <i>Edin.</i>	Lectr.
Todd, A. S., MB BS <i>Durh.</i>	Lectr.
Kirkland, J. A., MB ChB	Lectr.
Duguid, Helen L. D., MD <i>Aberd.</i>	†Asst.
Briggs, Elizabeth M. G., MB ChB	Asst.
Millar, K. G., MB ChB	Asst.
Napier, T. G., MB ChB	Asst.
Cameron, C., MB ChB <i>Glas.</i>	†Asst.
Boswell, J., MB ChB	†Demr.

Pathology, Clinical*

Goodall, H. B., MD	Lectr.
Morgan, H. G., BSc MB ChB	Lectr.

Pharmacology and Therapeutics*

Hunter, R. B., MBE, MB ChB <i>Edin.</i> , FRCPEd (Materia Medica)	Prof
Walker, W., MA MB ChB (Therapeutics)	Sr Lectr
Marshall, P. B., BPharm BSc PhD <i>Lond</i> (Pharmacol.)	Sr Lectr
Shepherd, D. M., BSc PhD (Pharmacol.)	Sr Lectr
McNeill, R. S., MB ChB <i>Edin.</i> (Therapeutics)	†Lectr.
Matty, A. J., BSc <i>Lond.</i> , PhD <i>Nott.</i> (Compar. Pharmacol.)	Lectr.
Sprunt, J. G., BSc MB ChB (Therapeutics)	Lectr.
Brownie, A. C., BSc PhD <i>Edin.</i> (Pharmacol.)	†Lectr
Boulton, D. J., MSc <i>Lond</i> (Pharmacol.)	Asst
Grayson, M. F., BSc MB ChB <i>Birm</i> (Therapeutics)	Asst.

Psychiatry*

Uytman, J. D., MB ChB <i>Glas</i> , DPM <i>Lond</i>	Prof. Sr. Lectr
--	--------------------

Psychiatry, Clinical*

Batchelor, I. R. C., MB ChB <i>Edin.</i> , DPM <i>Lond</i> , FRCPEd	†Lectr
Uytman, J. D., MB ChB <i>Glas</i> , DPM <i>Lond</i>	†Lectr.
Macrae, M. M., MD <i>Edin.</i> , DPM <i>Manc.</i>	Lectr
Aungie, P. G., MB ChB <i>Edin.</i> , DPM <i>Lond</i>	†Lectr
Fowle, H. C., MB ChB	Lectr.
McHarg, J. F., MB ChB, FRCPEd	Lectr.
Rorie, R. A. B., MD	†Chn. Asst.

Psychology, Clinical*

McGhie, A., MA PhD <i>Glas.</i>	Lectr.
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Public Health and Social Medicine*

Maur, A., MD DPH <i>Aberd.</i>	James Mackenzie Prof.
Simpson, J., MD <i>Glas</i> , DPH	Sr. Lectr.
Wilson, W. A., DPH <i>Lond</i> , MD	(Pub Health) Lectr
Graham, H. A., BSc MD, FRCSEd	(Soc. Med.) †Lectr
Weir, I. B. L., DPH <i>Glas.</i> , BSc MB ChB	(Pub Health) †Lectr
Riddell, G. S., MD <i>Aberd.</i> , DPH	†Lectr
Taylor, W., BSc PhD MB ChB <i>Edin.</i>	(Indust. Med.) †Lectr.
Glyn-Thomas, R., MB ChB <i>Liv</i> , DPH	(Admin. Med.) †Lectr.
Johnston, J. K., BL <i>Edin.</i>	(Admin. Med.) †Lectr
Dorward, W. F., BSc MB ChB	†Asst
Fulton, Annie A., MD DPH	†Asst
Quisklay, J. A.	(Phys. Educn) †Asst
Gauldie, W. S.	(Town Planning) †Asst.
Rankine, D. B. L., MB ChB	(Occupational Health) †Asst.

Radiology and Radiotherapy*

Riley, J. F., MD DMRT <i>Edin.</i> , PhD, FRCSEd (Exper. Med.)	†Reader
Swanson, W. C., MB ChB <i>Glas.</i> , DMR <i>Edin.</i>	†Lectr.
Pickard, C., BSc MD <i>Leeds</i>	†Lectr.
Sprunt, T., MB ChB DMR <i>Edin.</i> , FRCSEd	†Lectr
Dewar, D. A. E., DMR <i>Edin.</i> , MB ChB, FFR	†Lectr.
Howie, G. F. A., MB ChB DMRD <i>Edin.</i> , MRCPEd, FFR	†Lectr.

Surgery*

Douglas, D. M., MBE, MS <i>Menn</i> , MB ChM, FRCS, FRCSEd	Prof
Grieve, J., BSc MD ChM, FRCSEd	Sr. Lectr
Walker, W. F., MB ChM, FRCSEd, FRCS	Sr Lectr
Stewart, J. S. S., MB ChB <i>Glas.</i>	†Lectr.
Ogilvie, R. R., BSc	(Biochem.) Lectr.

Surgery, Clinical*

Douglas, Prof. D. M., MBE, MS <i>Minn.</i> , MB ChM, FRCS, FRCSEd	Lectr
Campbell, W. G., MB ChM LDS, FRCS	†Lectr
Sturrock, G. M., MB ChB <i>Edin.</i> , FRCSEd	†Lectr.
Grieve, J., BSc MD ChM, FRCSEd	Lectr.
Soutar, S. F., MB ChB, FRCSEd	†Lectr.
Charlesoff, C., BA BM BCH <i>Oxon</i> FRCSEd	†Lectr.
Kirkpatrick, E. R. G., MB ChM <i>Syd</i> , FRCSEd	†Lectr
Kinnear, J. S., MB ChB, FRCSEd	†Lectr.
Walker, W. F., MB ChM, FRCSEd, FRCS	Lectr.
Anderson, C. J. B., MB ChB <i>Aberd.</i> , FRCSEd	†Lectr.

Clark, J. A. L., MB ChM <i>Edn</i> , FRCSEd	Lockhart, W., MB ChB <i>Glas</i> .	†Tutor
		†Lectr
Kirk, J., MB BS <i>Lond</i> , FRCS	Venereal Diseases*	
(Plastic S) †Lectr	Keay, D. M., MB ChB DPH	†Lectr.
Blair, J. S. G., BA <i>Lond</i> , MB ChB,	Finnigan, Mrs. Jeannie P. MB ChB	
FRCSEd	DPH	†Tutor
Kerr, G., DFC, MB ChB, FRCSEd		†Tutor
		†Tutor
Tuberculosis*	GIFFORD LECTURER IN NATURAL	
Smith, D. H., MD	* THEOLOGY	
Johnston, R. N., MD <i>Aberd.</i>	1960-61, 1961-62—The Hon Sir Steven Runciman, MA LittD <i>Camb</i> , LLD <i>Glas</i> , FBA	

ADMINISTRATIVE AND OTHER STAFF

[*=at Queen's College]

UNIVERSITY OFFICERS. Secretarial Staff: P Cumming, MA LLB *Aberd**, D M Devine, MA *Glas*, LLB *Lond*, W W Tweedie, BL *Glas*, D Douglas, DSO*, D P. Dorward, MA LLB Quæstorial Staff G C Taylor, CA, G N Fraser, CA* Univ. Solicitor W. B Borthwick, LLB *Glas*, MA

LIBRARY *St Andrews*. Sub-Librarian, D W Doughty, MA *Camb Dundee* Sub-Librarian, A N Cass, MA *Camb*

RESIDENT ARCHITECT J Miller Asst. Architect G A. D. Hammond

APPOINTMENTS BOARD Sec. A. Smith, MA

MEDICAL OFFICERS, STUDENT HEALTH SERVICE *St Andrews* W F Mair, TD, MD *Edn Queen's Coll*, Dundee. . .

ISOTOPES LAB Physicist-in-Charge: J C. Orr, MSc *Belf*, DIC, PhD *Lond*

PHYSICAL TRAINING INSTRUCTORS *St Andrews*. Edna Haydock, A S Strachan, BSc *EdB Glas*. Dundee. Audrey W. Brown, J A Quikley.

ADVISERS OF STUDENTS *St. Salvator's Coll.* in Arts, G Seed, asstd. by L J. Woodward, A. M. Carstairs, R. M. Logan, J. Kemp, in Sci, Dr

F D Gunstone, D R R. Burt, Dr F. A. Rushworth, in Med., Prof A E. Ritchie *Queen's Coll*, Dundee in Arts, S G E Lythe, in Sci., Dr J. M. Jackson, Dr J L Copp, H Jack, in Med, Prof G H Bell, in Appl Sci, Prof J. Dick, in Dent, Prof. A. D. Hitchin, in Law, B C Bowman, in Soc Sci, S G E Lythe.

WARDENS OF RESIDENCES *St. Andrews*. St Salvator's Hall, J H Taylor, MB ChB *Edin.*, DPH, Hamilton Hall, G. J Makinson, BSc, St Regulus Hall, P Heath, BA *Oxon*, Hepburn Hall, M Smith, MA *Glas & Oxon*, Deans Court, C A Ladd, MA *Oxon*, University Hall, Lorna E M. Walker, MA, MacIntosh Hall, Mrs Christian J Tudhope, LLB *Edin*, MA, Abbotsford House, Kathleen M MacIver, MA *Oxon.*, PhD *Edin Dundee* Ailie Hall, H S N. McFarland, MA *Aberd*, BEd *Edn*, West Park Hall, Rhona Morrison, MA *Glas*.

LODGINGS OFFICERS *St. Andrews* Mrs Mary Y. Cumming, MA (also warden to non-resident students) *Dundee*. Mrs. Wilhelmina Taylor

CHAPLAINS. *St. Salvator's & St Mary's Colls* Rev. E G. Sangster, MA BD *Aberd*, MTh UTS (Va). *Queen's Coll*, Dundee. Rev. S R. Mackintosh, BA *Oxon.*, BD *Edin*.

GENERAL INFORMATION

The univ. founded in 1410, is the oldest in Scotland *St Salvator's Coll* was founded in 1450 and *St Leonard's Coll* in 1512 The 3rd *St Andrews coll*, *St Mary's*, founded in 1537, has, since 1579, been restricted to the teaching of theol In 1747 the colls. of *St Salvator* and *St Leonard* were amalgamated to form the United Coll of *St Salvator* and *St Leonard*, now generally known as *St Salvator's Coll University Coll*, Dundee, founded in 1881, was in 1897 affiliated to the Univ of *St Andrews*, and at the same time the conjoint medical sch. was established in Dundee Under the Univ of *St Andrews Act*, 1953, Univ. Coll, Dundee, and the conjoint med. sch. were merged into a new coll. of the univ. subsequently named *Queen's Coll*.

CONSTITUTION Under the Univ of *St Andrews Act*, 1953, the univ. comprises 3 colls., being unincorporated societies of teachers and students The univ. court is a body corporate with perpetual succession and a common seal, and all the property belonging to the univ. is vested in the univ. court The above act also set up the council of the United Coll. of *St Salvator* and *St Leonard* and *St Mary's Coll*, and the council of *Queen's Coll*, and empowers the univ. court to delegate various functions to these councils.

The senatus academicus is responsible for the general supervision of teaching and discipline. The chancellor, who is elected by the general council and holds office for life, is empowered to appoint a vice-chancellor who may in his absence

discharge his office in so far as regards conferring degrees but in no other respect. By a convention uniformly observed since 1858 the principal of the univ. is apptd vice-chancellor. The rector, who is elected by the matriculated students of the univ. and holds office for 3 yrs, is the ordinary president of the univ. court, he also presides over the general council in the absence of the chancellor.

INCOME (1959-60). Total income, £1,188,281 (endowments, 2.3 per cent, donations, 0.3 per cent, govt grants, 80 per cent; fees, 10.6 per cent, services, 2.7 per cent, sundries, 4.1 per cent.).

FACULTIES AND DEANS. *Appl sci.*, Prof J Dick (civil & mech engin); *arts*, Prof K. J. Dover (Greek), *div*, Prof N. H. G. Robinson, *law*, Prof A. J. McDonald (conveyancing), *med*, Prof R. B. Hunter (pharmacol & therapeutics); *sci*, Prof J. F. Allen (phys), *soc. sci.*, Prof A. D. Campbell (appl econ).

* LIBRARIES at St Andrews and Dundee. Approx 620,000 printed vols. (some of 15th and 16th cents). MSS incl fine Persian specimens and large folio antiphonarium.

MUSEUMS at St Andrews—anat, anthropol, ethiol, geol, mineral, nat hist.; at Dundee—geol, med., nat hist. LABORATORIES at St Andrews—in all above depts. except med, also chem. (with sp res lab), marine, phys., astron (observatory), physiol, bot garden, at Dundee—anat., bacteriol, chem, embryol, engin. (electr., hydraulic, mech), mat med., maths, nat hist., pathol, phys., physiol.

TEACHING HOSPITALS. Dundee—Royal Infirmary, Maryfield H., King's Cross Infectious Diseases H., Royal Mental H., Ashludie H., Perth—Royal Infirmary, Bridge of Earn H., Brechin—Stracathro H.

ADMISSION. See Appendix III

FIRST DEGREES. MA ord., MA ord in soc. sci., BSc ord., BSc ord in engin., BL, 3 yrs; MA hons., MA hons in soc sci, BSc hons., BSc hons in engin., 4 yrs., BDS, 5 yrs; MB ChB, 6 yrs.

Courses for graduation in arts and sci. are given both in St Salvator's Coll., St Andrews, and in Queen's Coll, Dundee, some being given in both places, some (Greek, Hebrew, Latin, Spanish, music) only in St Andrews, some (engineering) only in Dundee, med., after the first 2 yrs and 2 terms, and dent., solely in Dundee, where facilities for clin. instrcn. are available. In Dundee also are provided courses for graduation in law (LLB and BL) and in soc sci.

The MA ord. degree course (3 yrs) includes a gen and a sp exam. The former, which must be completed before proceeding to the sp, comprises 5 subs which must incl (a) logic or moral philos, (b) Latin or Greek or Hebrew or maths and a lang. other than Engl., or 2 mod. foreign langs. In the sp exam 2 cognate subs must be taken, the whole exam. being passed at one time. The

curriculum for the MA hons degree extends over 4 yrs and involves first passing the gen exam, as a whole (candidates for hons normally include in the general exam the 2 subs. which they propose to take to hons standard), except that candidates offering an hons group in langs or hist or maths and sci are not required to pass more than 4 subs in the gen exam. The final hons. exam. is taken at the end of the 4th yr. Hons may be taken in any of the following groups: Engl lang & lit, French lang & lit; German lang & lit, mediev. & mod hist., econ & appl econ, Engl with French or German or Greek or logic & metaphysics or mediev hist or mod. hist or moral philos or Spanish, French with Arabic or German or Spanish, German with Spanish, Spanish with Arabic, Semitic langs. with Arabic or Hebrew, Latin with Greek, Greek with Hebrew or logic & metaphysics or moral philos, Hebrew with Arabic; logic & metaphysics with maths or moral philos or nat. philos or pol econ or econ or psychol or mod soc & econ hist. or pol sci, mediev hist with geog. or moral philos or pol econ, mod hist with geog or moral philos or pol econ, psychol with moral philos or econ; geog with pol. econ or econ. or pol sci; pol. econ with moral philos, maths with appl maths. or astron or chem. or nat. philos or pol. econ or econ., nat. philos with appl maths, econ with appl econ. or mod soc & econ hist or moral philos or pol sci, pol. sci with moral philos.; mod soc & econ hist. with moral philos or pol. sci or geog.

The MA(SocSci) ord degree course (3 yrs) includes an exam divided into 3 pts. Pt. I is based on an inter-dept course, taking the whole of the 1st yr. and incl hist., pol sci, econ, geog, philos, psychol. Pt. II comprises 3 subs. (i) econ., (ii) philos., (iii) one from a list incl law and lang as well as soc. sci. subs. In pt. III of the exam., 2 soc. sci. subs. are taken at an advanced level, the whole exam. being passed at one time. The curriculum for the MA(SocSci) hons. degree (4 yrs) involves passing pt. I of the exam. for the ord degree. The hons. exam is taken at the end of the 4th yr. Hons. may be taken in (a) econ, (b) geog., or (c) any of the following groups: econ. & maths., psychol. & maths., any 2 of econ., geog., mod soc. & econ hist., philos., pol. sci., psychol.

The BSc ord degree in pure sci. is a 3-yr course embracing 7 subs. with a 1st exam (at least 4 subs) and a 2nd (at least 2 subs). The hons. degree in pure sci. is a 4-yr course. After the 1st yr. there is a 1st exam. in 3 subs and after the 2nd yr. a 2nd exam. in 2 subs. The last 2 yrs. are devoted to advanced study in a single hons subj. or approved group of 2 hons. subs., followed by an hons exam. Hons may be taken in any 1 of anat., appl maths., astron., biochem, bot, chem, geol., maths., pathol, pharm., phys., physiol, zool., or in 1 of the following groups: phys. with theoret phys, maths or appl maths with astron. Hons. candidates may make applicn. for exemption from 3 subs. and for permission

to take the 1st exam in these subs before 1st matric

The BSc ord. degree in appl. sci. is a 3-yr course and the hons. degree a 4-yr. course Both degrees can be taken in civil, elect or mech engin or in electronic phys. Hons. candidates may make application for permission to take the 1st exam. before 1st matric., and if they then pass in all 4 subs. or in all subs less engin drawing they may then obtain the hons. degree in 3 yrs

HIGHER DEGREES EdB, 2 yrs. after 1st degree, BD, 3 yrs. after arts degree or other recog. degree or dipl., LLB, 3 yrs. after arts degree.

DLatt, 5 yrs. after MA hons, BPhil, BLatt, BSc hons or EdB, BPhil, by dissertation, 1 yr after previous degree in arts or div., BLatt by exam, either conjointly with or after MA hons degree, MSc, by thesis at least 4 terms after 1st degree, DSc, 7 yrs. (5 yrs in appl. sci.) after 1st degree, MD or ChM, 1 yr after MB ChB, candidate must be at least 24. MDS, 2 yrs. after 1st dent. degree by exam and thesis, DDS, 5 yrs after 1st dent. qualif., which may be LDS if candidate also holds degree in fac. of med or sci. of a British or approved overseas univ and is a member of teaching staff; PhD, normally 3 yrs. after 1st degree which, in exceptional cases, may be reduced to 2 yrs; LLD, 7 yrs. after graduation. The LLD may also be awarded as an honorary degree. The DD is honorary only.

The univ does not award EXTERNAL DEGREES.

DIPLOMAS. Educn., for grads who complete 1st yr of the EdB course, soc admin, for grads, at least 1 yr, DPH and DPD, 1-yr courses which cannot be taken until 2 yrs. and 1 yr respectively after attaining med or dent. qualif.

CERTIFICATE Soc admin (for non-grads.), 2 yrs

FEES Annual fees (incl tuition and exam. fees and use of labs) arts, soc. sci., div. and law, £35, sci and appl sci, £55, med and dent, £60. Lab deposits, and annual matric. fee (£4 12s 6d), payable in addn. Fees for higher degrees BLatt, BPhil, each £15, MSc, PhD, DLatt, DSc, each £20, MD, ChM, MDS, DDS, each £25. Annual students' union sub. (not compulsory), £2. 10s.

ACADEMIC YEAR. Oct to June. 2 terms of 10 wks and 1 term of 9 wks

EXTRA-MURAL CLASSES. No extra-mural classes conducted directly by the univ but the univ is represented on a cttee which organizes such classes in counties of Fife, Perth, Kinross, Clackmannan and Angus and in city of Dundee.

ENTRANCE SCHOLARSHIPS Scholrsh. of £100 p.a. and bursaries of up to £60 p.a. available for award on results of competition held annually in March

APPOINTMENTS BOARD The appts. bd exists for the dual purpose of helping grads to find suitable employment and advising students on

careers open to them and the most suitable courses to follow with a view to entering particular employment. The bd has offices at 81 North St, St Andrews (tel 750), and 10 Park Pl., Dundee (tel 22778).

An ALUMNUS ASSOCIATION was founded in 1926. Alumnus clubs exist in Aberdeen, Edinburgh, Glasgow, the Borders, Yorkshire, Manchester, Birmingham, London, Newcastle upon Tyne, Toronto, Rhodesia, Johannesburg, Malaya, Victoria and New York. Information may be obtained from the sec, alumnus assocn, the University, St Andrews.

RESIDENCE (For wardens, see 'Admin. and Other Staff', above) For women St Andrews (fees . from £147 per session)—University Hall, 150 students (tel . 729), MacIntosh Hall, 138 students (tel 894); Abbottsford House, 41 students (tel . 1481) Dundee (fees £121 to £134 10s per session)—West Park Hall, 84 students (tel . 67169) For men St Andrews (fees £157 to £163 per session, except Deans Court for which rates are slightly higher)—St. Salvator's Hall, 132 students (tel 649), Deans Court, 25 res students (tel . 1185), St Regulus Hall, 100 students (tel . 356); Hepburn Hall, 29 students (tel . 137), Hamilton Hall, 103 students (tel 1086) Dundee—Airlie Hall, 167 students (tel 24496) (fees £135 to £144. 15s per session) In each case the charge for residence is exclusive of tuition fees.

UNIVERSITY TRAINING (T.A.) CORPS Establd 1908 as OTC; reorganized 1948. Units infantry, signals, med, intelligence, W.R.A.C H.Q. 16 Park Wynd, Dundee (tel 23571); St Andrews—Units Wyvern, St Andrews (tel 1262). UNIV AIR SQUADRON Full course of trg, both flying and ground, conducted by fully qualified R.A.F. instrs H.Q. 83 North St, St Andrews (tel 939). ROYAL NAVAL VOLUNTEER RESERVE, Tny division (H.M.S. Cressy, Dundee) Students carry out 3 wks' trg. at sea during vacation. Women students may enrol in the W.R.N.S., Tny division, R.N.V.R.

STUDENT HEALTH SERVICE Med officer provides gen practitioner service at St. Andrews. At Dundee a student health officer provides an advisory and consultative service and gives minor and first-aid treatment. The service can be used without charge by all matriculated students. Compulsory chest X-ray for all entrant students. Consulting rooms Kennedy Hall, St Andrews, and 5 Airlie Tce, Dundee.

ATHLETIC UNION The athletic union is a federal body for co-ordination of all student athletic activities. In both St Andrews and Dundee there are extensive playing-fields laid out for all the major field sports, and also well-equipped gymnasiums. There are durs. of phys trg for men and women students both in St Andrews and Dundee.

STUDENTS' UNIONS. In St Andrews and Dundee, unions for both men and women students

adjoin the coll bldgs. In addition to usual club facilities, the unions provide lunches at low cost

PUBLICATIONS. *Calendar* (Oct), £1, alumnus assocn's *Chronicle* (yrlly.); students' representa-

tive council's *College Echoes* Histories. *A Short History of the Univ of St Andrews*, by R. G Cant (Oliver & Boyd, 1946); *The Coll of St Salvator*, by R G Cant (Oliver & Boyd, 1950)

THE YEAR 1960

PRINCIPAL BENEFACTIONS Anon. donor, £30,000 for Queen's Coll. bldg fund, Sir Harold Mitchell, Bart, £10,000 for postgrad. scholp to enable a grad of the U C of the West Indies to do res in St. Salvator's Coll; Jute Industries Ltd, approx £10,000 to set up temp. lectureship in indust med

MAJOR BUILDING DEVELOPMENTS Bldgs completed biol bldg, extrn to Gatty Marine Lab (Wellcome Lab of pharmacol).

RETIREMENTS J H Mulligan (anat); Edith P Smith (bot).

RESIGNATIONS Prof J H Burnett (bot), apptd. to chair, King's Coll, Newcastle, H D Attwood (pathol), R J Beck (Engl.), apptd to chair, Malta, D T Bennett (oper dent. surg), D A Blackadder (chem), Dr V F Dixon (Spanish), J M Dodd (zool), apptd to chair, Leeds, I F. Gibson (econ); H A Graham (pub health), G A F Knight (Hebrew), apptd to chair, McCormick Theol Seminary, Chicago, Hon. Margaret Lambert (mod hist); D Midgley (electr engrn), C I Savage (pol econ.), N R W Taylor (pharmacol), E. W Walton (pathol), A. G Wernham (moral philos.), apptd to chair, Aberd., A L. Wright (pol econ.).

DEATHS J. Y Macdonald (chem); D. M Mackenzie (bursar of residences).

HONORARY DEGREES DD—Rev. W. O Chadwick, master of Selwyn Coll, Camb, Prof A H. Malinemi, prof of church hist, Univ of Helsinki; Rev T F. Torrance, prof of Christian dogmatics, Edin LLD—Sir C C Cunningham, permanent under-secretary of state, Home Office, W. Hughes, ex-lord provost of Dundee; Solomon,

concert pianist, J Stewart, dir, Canadian Bank of Comm.; Prof J M Webster, prof of forensic med, Burn

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1728	53
Women	867	9

Total 2595 62

Distribution by Faculties. *Appl sci.*, 176, *arts*, 937, *div*, 38, *law*, 90, *med.*, 547, *sci*, 780, *soc sci*, 89 Total 2657

Included in the figures above are —

Postgraduate students, 197

New admissions (full-time graduating), 736

Students from other countries, 245. (Countries from which largest numbers came: U.S.A, 36, Nigeria, 20, Kenya, 16, India, 14; Uganda, 14)

DEGREES AWARDED (1950-60). *Appl sci* PhD, 1; BSc (hons), 6, BSc, 39 *Arts* PhD, 2, BPhil, 3; EdB, 4, MA (hons), 96, MA, 104 *Dent.*: DDS, 1, BDS, 18 *Div*: PhD, 3; BD, 1. *Law*: LLB, 6; BL, 4 *Med.*: PhD, 1, ChM, 1, MD, 2; MB ChB, 64 *Sci*: PhD, 9, BSc (hons), 52, BSc, 101 Hons granted subsequent to graduation *appl sci.*, 9, *arts*, 7, *sci*, 44 Total number of first degrees awarded, 484

DIPLOMAS AWARDED (1959-60) DipEd, 27, DPH, 10, DipSocAdmin, 4, DPD, 2

CERTIFICATES AWARDED (1959-60) CertSoc Admin, 2.

NORTHERN IRELAND

[Information compiled as at 31/8/61]

QUEEN'S UNIVERSITY OF BELFAST*

Founded 1908, previously established as Queen's College, Belfast, 1845

Postal Address Belfast 7, Northern Ireland
Telegrams and Cables University, Belfast, Northern Ireland
Telephone Belfast 30111

VISITOR—H.M. THE QUEEN

CHANCELLOR—Field-Marshal THE VISCOUNT ALANBROOKE, KG, GCB, OM, GCVO, DSO, Hon. LLD
Oxon, Camb., Brist., Lond., Leic., Belg. & Edn.

PRO-CHANCELLORS—The Rt Hon LORD MACDERMOTT OF BELMONT, MC, Hon LLD *Edm. & Belg.*,
 Lord Chief Justice of N Ireland; SIR FRANK P MONTGOMERY, MC, DMRE *Camb.*, MB, FFR

PRESIDENT AND VICE-CHANCELLOR—M. GRANT, CBE, MA *Camb.*, LittD *Camb. & Dub.*, FSA

REGISTRAR—Professor T A SINCLAIR, MA *Camb.*, Hon. DLitt *N.U.I.*

HONORARY TREASURER—W. R. KNOX, FCA

LIBRARIAN—P. HAVARD-WILLIAMS, MA *Wales*

SECRETARY—G. R. COWIE, JP, MA LLB *Aberd.*

BURSAR—G D BURLAND, BA BComm *Dub.*

CHAIRMAN OF CONVOCATION—Professor M. J. BOYD, MA *Oxon.*, BA

TEACHING STAFF

[†=Part-Time]

Accounting, see Econ.

Agriculture, see below

Anatomy

Pritchard, J J, BSc *Adel.*, MA BCh

DM *Oxon*

Prof

Morton, W. R. M., MA *Camb.*, BSc MD

(Embryol) Reader

Scott, J H, MD DSc LDS

(Anat. for Dental Students) Reader

Harrison, T J, MD PhD

Lectr

Vincent, S A, MB, FRCS

†Lectr

Bridges, J B, BSc MD

Lectr

† Tutor, 5 Demers

Ancient History

Atkinson, Mrs Kathleen M T, MA *Oxon.*

FSA

Reader

Astin, A E, MA *Oxon*

Supernum Lectr

Archæology

Jope, E. M, MA BSc *Oxon.*, FSA

Reader

Wilson, B. C S, MA *Dub.* Supernum. Lectr

† Asst. Lectr., 1 Res. Asst

Biochemistry

Harrison, D C, DSc *Lond.*, PhD *Camb.*

J C White Prof

Malpress, F H, BA *Oxon.*, PhD *R'dg.* Reader

Leslie, I, BSc *Aberd.*, PhD *Glas.* Reader

Elmore, D. T., BSc PhD *Lond.* Lectr.

1 Res. Asst.

Botany

Carr, D J, BSc PhD *Mane.*,

Hon MSc *Melb.*

Prof

Parker, R. E, BSc *Wales*

Lectr.

Smith, A G, BSc *Sheff.*, PhD *Camb.*

Lectr.

Pate, J. S., MSc PhD

Lectr.

Purnell, Helen M, MSc *Melb.*

Lectr.

Gunning, B E S, MSc

Supernum Lectr

Kertland, Mary P H, MSc

† Curator of Herbarium

1 Asst Lectr., 1 Res. Asst

Celtic

Wagner, H H, DrPhil *Zür.*

Prof

Henry, P. L., BA MEdSc *N.U.I.*,

Lectr.

PhD *Zür.*

1 Asst Lectr., 1 Res. Asst.

* Member of the Association of Universities of the British Commonwealth

Chemistry

- Kemball, C., MA ScD *Camb.*, FRIC
(Phys. & Inorg. C) Prof
- Henbest, H. B., PhD DSc *Lond.*, DIC,
FRIC (Org. C.) Prof.
- Wilson, C. L., PhD *Glas.*, DSc, FRIC
(Analyt. C) Prof.
- Pink, R. C., DSc (Phys. C) Reader
- Bacon, R. G. R., DIC, BSc PhD *Lond.*
(Org. C) Reader
- Magee, R. J., PhD *Edin.*, MSc, FRIC
(Inorg. C.) Sr. Lectr.
- Mackie, H., DPhil *Oxon.*, MSc PhD,
FRIC (Phys. C) Lectr.
- Pullin, A. D. E., BSc PhD *Lond.*
(Phys. C.) Lectr.
- Grundon, M. F., MA DPhil *Oxon.*
(Inorg. C) Lectr.
- Lewis, F. A., BSc PhD (Inorg. C.) Lectr.
- Heal, H. G., BSc PhD *Lond.* (Inorg. C.) Lectr.
- Roberts, M. W., BSc PhD *Wales*
(Phys. C) Lectr
- Stirling, C. J. M., BSc *St And.*, PhD *Lond.*
(Org. C) Lectr
- Nelson, S. M., DPhil *Oxon.*, MSc PhD
(Inorg. C) Lectr.
- Galwey, A. K., BSc PhD *Lond.*
(Phys. C.) Supernum. Lectr.
- Flockhart, B. D., MSc PhD
(Phys. C) Supernum. Lectr.
- McGrath, W. D., PhD *Camb. & Belf.*,
BSc (Phys. C) Supernum. Lectr.
- Woodward, Ida, MA *Camb.* Temp. Res. Lectr
- Auret, Mrs. Barbara J., PhD *Edin.*, BSc
Supt. of Labs.
- 3 Asst. Lectrs., 8 Demrs., 1 Res. Asst.

Classics: Greek

- Sinclair, T. A., MA *Camb.*,
Hon. DLitt *N.U.I.* Prof.
- Phillips, E. D., MA *Oxon.* Reader
- Gooding, D. W., MA PhD *Camb.*
Supernum. Lectr.

Classics: Latin

- Boyd, M. J., MA *Oxon.*, BA Prof.
- Bower, E. W., MA *Oxon.* Lectr.
- Smallwood, Edith M., MA PhD *Camb.* Lectr.
- McGann, M. J., BLitt *Oxon.*, MA
Supernum. Lectr

Dentistry, see Medicine**Economic History**

- Connell, K. H., BSc(Econ) PhD *Lond.*,
MA *Oxon.* Sr. Lectr.
- Hammerley, G. F., BA *Lond.* Lectr
- Ehrlich, C., BSc(Econ) PhD *Lond.* Lectr.

Economics

- Prof.
..... (Appl. E) Prof.
- Black, R. D. C., BComm MA PhD *Dub.* Reader
- Cuthbert, N., BComSc MA (Stats.) Sr. Lectr

- Black, W., BComSc PhD Lectr
- Wright, A. L., BComm MA *Dub.* Lectr.
- Swann, D., BA PhD *Leeds* Lectr.
- Gibson, N. J., BSc(Econ) PhD

- Corley, T. A. B., MA *Oxon.* Supernum. Lectr.
- Montgomery, J. K., BComSc, FCA
(Accounting) †Lectr.
- 4 Asst. Lectrs., 1 Asst. Lectr., 1 Res. Asst.

Education

- Knox, H. M., MA BEd PhD *Edin.* Prof.
- Sutherland, Margaret B., MA EdB *Glas.*,
PhD (on leave) Sr. Lectr.
- Lewis, D. G., MSc *Wales*, BEd *Edin.* Lectr.
- Price, A. F., MA DipEd *Liv.*, PhD Lectr.

Engineering, see Applied Science and Technology, below**English Language and Literature**

- Butter, P. H., MA *Oxon.* Prof.
- McDermid, M. P., MA *Glas.*,
BLitt *Oxon.* Sr. Lectr.
- Braidwood, J., MA *Glas.* Sr. Lectr.
- Lerner, L. D., MA *Cape T.*, BA *Camb.* Lectr.
- Hill, Betty, MA *Birm.*, DPhil *Oxon.* Lectr.
- Salgado, R. G. N., BA PhD *Nott.* Lectr.
- Dixon, P., BA *Oxon.*, MA *Lond.* Lectr
- 1 Asst. Lectr

French and Romance Philology

- Gibson, R. D. D., BA *Lond.*, PhD *Camb.* Prof.
- Godin, H. J. G., MA *Lond.*, PhD Sr. Lectr
- Japolsky, L., MA BLitt *Oxon.* Lectr.
- Nurse, P. H., MA *Oxon.* Lectr.
- Thody, P. M. W., MA *Lond.* Lectr
- Pugh, A. R., MA PhD *Camb.* Supernum. Lectr
- 2 Lectors

French, Mediæval

- Pelan, Margaret McL., DU*Stras.*,
MA PhD Reader
- Spence, N. C. W., BA *Leeds*, PhD *Lond.* Reader
- 1 Asst. Lectr

Geography

- Evans, E. E., MA *Wales*, DSc Prof.
- Stephens, N., BSc *Brist.*, MSc Lectr
- Ford, V. C. R., MA *Lond.* Lectr
- Symons, L. J., BSc(Econ) *Lond.*, PhD Lectr.
- Buchanan, R. H., BA PhD Lectr.
- Mitchel, N. C., MA Lectr.
- Harris, Rosemary L., MA *Lond.*, PhD Lectr.
- Common, R., BSc *Durh.*, PhD *Edin.* Lectr
- 2 Asst. Lectrs., 1 Res. Asst.

Geology

- Williams, A., BSc PhD *Wales*, FGS Prof.
- Preston, J., BScTech BSc *Manc.*,
PhD *Helsinki* Sr. Lectr.
- Schwarzacher, W., DPhil *Innsbruck* Lectr.

Reid, R. E. H., BSc *Lond* Lectr
 Tavene-Smith, R., MSc *Wales*, FGS
 2 Asst Lectrs., 1 Res Asst
 Supernum Lectr

German

Henderks, H. E., MA *Hamburg*, DPhil *Basil* Prof.
 Finch, R. G., MA *Wales* Lectr.
 Casey, T. J., MA *Dub*, DrPhil *Bonn* Lectr.
 Hesse, W. G., DrPhil *Bres*, MA *Cape T.* Lectr.
 Furst, Lillian R., MA PhD *Camb*
 1 Lectr
 Supernum Lectr

Histology

Stangeways, Dorothy H., MA *Camb.*,
 PhD *Leeds* Sr Lectr.

History, see also Anc. Hist.

Roberts, M., MA DPhil *Oxon.*,
 Hon. FdDr *Stockholm*, FBA Prof
 Beckett, J. C., MA (Irish H.) Prof
 Gray, J. W., MA *Oxon* Reader
 Graham, A. H., MA *Glas* Lectr.
 Crowder, C. M. D., MA DPhil *Oxon*.
 (Palaeog. & Diplomatic) Lectr
 Clarke, Dorothy P., PhD *Lond*, BA Lectr.
 Warren, W. L., MA DPhil *Oxon*
 1 Asst. Lectr., 1 Res Asst.
 Supernum Lectr

History, Economic, see Econ. Hist.**Jurisprudence**

Newark, F. H., CBE, BCL MA *Oxon*. Prof.

Law

Montrose, J. L., LLB *Lond*,
 Hon. LLD *Dub* Prof.
 Delaney, V. T. H., LLD *Dub* Reader
 Simmonds, K. R., MA DPhil *Oxon* Sr. Lectr
 Milner, A., LLB PhD *Leeds*, LL.M. *Yale* Lectr
 Ryan, J. L., BA *St Thomas*, BCL *New Br* Lectr
 Conaghan, R. H., QC, BA †Lectr.
 Hutton, J. B. E., BA *Oxon*. †Lectr
 1 Asst Lectr, 1 Tutor

Mathematics, Applied

Bates, D. R., DSc *Lond*, MSc, FRS Prof.
 Dalgarno, A., BSc PhD *Lond*
 Dir Comput Lab, (Quantum Mech)
 Prof.
 Moisewitsch, B. L., BSc PhD Lectr.
 Jarrett, A. H., BSc *Leeds*, MSc *Manc.*,
 PhD *St. And* Lectr
 McCarroll, R. W., BSc PhD Lectr.
 Stewart, A. L., PhD *Lond*, BSc Lectr.
 Cohen, M., BA *Oxon*. Lectr.
 3 Asst. Lectrs

Mathematics, Pure

Verblunsky, S., BA PhD *Camb*. Prof.
 Cooper, R., MA PhD *Camb* Reader

Henstock, R., MA *Camb.*, PhD *Lond* Sr Lectr
 Burgess, D. C. J., MA PhD *Camb*, BSc Lectr.
 2 Asst. Lectrs

Medicine, see below**Music**

Cranmer, P., MA BMus *Oxon*, FRCO
 Hamilton Hartly Prof
 John, E. B., BA MMus *Wales*, FRCO Lectr
 Warren, R. H. C., MA MusB *Camb*. Lectr

Philosophy

Gallie, W. B., MA BLitt *Oxon*. Prof
 Farns, J. A., MA BLitt *Oxon* Sr Lectr
 Milne, A. J. M., BSc (Econ) PhD *Lond*
 (Social P.) Lectr.
 Hervel, J. W. J., MA *Camb*
 (Hist. of Philos. of Sci.) Lectr.
 Grene, Mrs Marjorie G., MA PhD *Harv* Lectr.
 Roxbee Cox, J. W., BA BPhil *Oxon*
 Supernum Lectr

Philosophy, Scholastic

Crowley, Rev T., DPhil LucSchHist Maître
 Agrégé en Philos *Louvain* Reader
 Daly, Very Rev C. B., LPh DD *Maynooth*,
 MA Reader
 1 Asst Lectr

Physics

Emeleus, K. G., MA PhD *Camb.*,
 Hon. ScD *Dub* Prof.
 Sloane, R. H., DSc, FIP Reader
 Watt, C. S., MSc PhD Lectr.
 Kerr, L. W., BSc PhD Lectr.
 Higginson, G. S., BA N.Staffs,
 PhD *Birm*. Lectr.
 Johnston, A. R., BSc PhD Lectr.
 5 Temp. Asst. Lectrs, 6 Demrs.

Physiology

Greenfield, A. D. M., MB BS DSc *Lond*
 Dunville Prof
 Roddie, I. C., BSc MD BCH, MRCPi Sr Lectr
 Loughridge, J. S., MD, FRCS †Lectr
 Clarke, E. W., BSc MB ChB *Birm*,
 MA *Camb* Lectr.
 Love, A. H. G., BSc BCH, MRCPi Lectr
 Glove, W. E., MD BCH Lectr.
 1 Tutor, 3 Demrs., 1 Res Asst

Political Science

Warrender, J. H., MA *Oxon* Prof.
 O'Leary, C., MA NUI, DPhil *Oxon* Lectr
 1 Asst Lectr., 1 Temp Asst Lectr.

Psychology

Seth, G., MA BEd PhD *Edin*, FBPsS Prof.
 McEwen, P., BSc *Edin.*, PhD Lectr.
 Beloff, J. R., BA *Lond*, PhD Lectr.
 Rodger, R. S., BA *Edin.*, PhD Lectr.
 McHugh, M. F., BA Lectr.

Stretch, R. G. A., BA *Nott.*, PhD *Sheff.* Lectr.
1 Asst Lectr., 1 Res. Asst.

Social Studies

Neill, D. G., MA *Dub* Sr. Lectr., Dir.
Harrison, Enid M., MA BLitt *Oxon.*,
DFSA Lectr

White, J. R., BA DipSocS (Practical Work) Tutor

Ferguson, Mrs Janet I., DipSocSt Temp Asst Tutor

McIlreavy, F., JP, BComSc †Tutor

Gilmore, Mrs Mary J., BA †Tutor

MacMillan, Marion P., MBE †Tutor

Spanish

Terry, A. H., MA *Camb* Musgrave Prof
Plumpton, Jill E., MA *St And* Sr Lectr

1 Temp Asst. Lectr., 1 Lectr. Supernum. Lectr

Technology, see Applied Science and
Technology, below

Theology, see below

Zoology

Gresson, R. A. R., DSc *Edm*, PhD *St. And* Prof
Williams, G., MSc *Liv.* Sr Lectr

Gotto, R. V., MSc Lectr

Pantelouris, E. M., BSc *Lond & Athens*,
PhD *Edm* Lectr.

Threadgold, L. T., BA PhD *Dub* Lectr

Scott, A., BSc PhD *Aberd.* Supernum Lectr.

2 Asst. Lectrs., 1 Museum Asst †

AGRICULTURE

Agricultural Botany

Linehan, P. A., DSc *NUI*, MAgr Prof
Lowe, J., MAgr PhD Sr Lectr.

Stewart, R. H., BAg Lectr.

Agricultural Chemistry

Houston, J., DSc, FRIC Prof
Robinson, K. L., BSc BAg Reader

McConaghy, S., BSc MAgr, FRIC Sr. Lectr

McAllister, J. S. V., DFC, DFM, BAg Lectr

Brown, W. O., BSc MAgr PhD, FRIC Lectr

Raven, A. M., BSc PhD *Durh* Lectr

3 Asst. Lectrs.

Agricultural Economics

Shemilt, H. J., BScAgric *Lond* Lectr
1 Asst Lectr.

Agricultural Zoology

Chamberlain, R., MA DipAgric *Camb* Reader
Willis, R. J., BSc *Wales* Lectr

1 Asst. Lectr.

Agriculture, Bacteriology of

Clerkin, P., BSc BAgRSc *N.U.I* Sr. Lectr.
Murray, J. G., MAgr PhD Lectr

2 Asst Lectrs

Comparative Pathology

Lamont, H. G., OBE, DSc Prof.

Crop and Animal Husbandry

Morrison, J., BSc *Aberd* Prof.

Hale, R. W., BSc(Agr) *Lond* Sr Lectr.

1 Asst Lectr

Mycology and Plant Pathology

Muskett, A. E., OBE, DSc *Lond.* Prof

Taylor, J. C., BSc BAg Lectr.

Calvert, E. L., MAgr Lectr.

4 Asst Lectrs

Plant Genetics and Plant Breeding

Wilson, E. V. B., BSc Sr Lectr

Wright, C. E., BSc BAg PhD Supernum. Lectr

2 Asst Lectrs.

Veterinary Science

Kerr, W. R., ISO, BSc PhD Reader

Pearson, J. K. L., BSc PhD Lectr

Gordon, W. A. M., BAg PhD Supernum Lectr

Gracey, J. F., BAg PhD Supernum Lectr

APPLIED SCIENCE AND TECHNOLOGY

Engineering, Aeronautical

Stephens, A. V., MA *Camb*, FRAeS Prof
Sr Lectr

Horne, J. L., MSc *Brist* Lectr

Watson, R., BSc(Eng) *Lond* Temp Lectr.

1 Asst Lectr., 1 Res Asst.

Engineering, Civil

Naylor, A. H., BSc(Eng) *Lond*, MSc *Birm*,
MICE Prof

Finnan, E. J., MSc Sr Lectr

Godden, W. G., MSc PhD Sr Lectr

Crone, D. R., CIE, OBE, MSc (Surveying) Sr Lectr

Sidwell, E. H., MSc Lectr

McDowell, D. M., BSc PhD *St And* (Hydraulics) Lectr

Stuart, J. G., BSc *Wales* (Soil Mechanics) Lectr.

Gurr, M., BSc(Eng) *Lond* Lectr

Agnew, R., BSc PhD Temp. Lectr

Swann, R. A., BSc Temp. Lectr.

4 Asst Lectrs, 3 Temp Asst. Lectrs

Engineering, Electrical

West, J. C., PhD DSc *Manc* Prof

McIlhagger, D. S., MSc PhD, MIEE Sr. Lectr.

Gilhes, J. F., OBE, BE *NUI*,
BSc(Eng) *Lond.*, PhD, MIEE, FIP †Lectr.

Douce, J. L., MSc PhD <i>Mane</i>	Lectr.	Engines, Heat, and Practice of Machine	
Jayawant, B. V., BEng <i>Bom</i> , PhD <i>Brust</i>	Lectr	Design and Construction	
3 Asst Lectrs., 1 Res Asst.		Craig, F. V.	Recog. T.
Engineering, Light Electrical		Newel, D. G., BSc	Recog. T.
Allen, T. P., MSc, MIEE	Prof	Harvey, G. R.	Recog. T.
McBride, J. M. W., BSc	Lectr	Jennings, R.	Recog. T.
Claricoats, P. J. B., BSc(Eng) PhD <i>Lond</i>	Lectr.	Hosford, D. F., BSc	Recog. T.
Ryan, W. D., PhD <i>Que</i> , MSc	Lectr.	Mathematics, Applied	
Rosie, A. M., BSc <i>Glas</i> , MSc <i>Burm</i>	Temp Lectr	O'Neill, F. R., BA	Recog. T.
Engineering Mathematics		Robinson, G. E., BA <i>Lond</i> .	Recog. T.
Roberts, A. P., BSc <i>Mane</i>	St. Lectr	Mathematics, Pure	
Mercer, A. M., BSc PhD	Lectr	Griffith, L., BSc <i>Lond</i> , MA	Lectr.
Dunwoody, N. T., BA PhD	Lectr	Davies, A. L., MA <i>Sheff</i>	Lectr.
Newmann, M. M., BSc PhD <i>Nott</i>	Lectr	O'Neill, F. R., BA	Recog. T.
Gallagher, A. P., MSc	Temp Lectr	Scott, S. A., MA	Recog. T.
1 Asst Lectr., 1 Temp Asst Lectr		Robinson, G. E., BA <i>Lond</i>	Recog. T.
Engineering, Mechanical		Mechanical Engineering	
Crossland, B., MSc <i>Lond</i> , PhD <i>Brust</i> , DSc <i>Nott</i> , MIMechE	Prof	Golgher, T. E., DIC, BSc	Lectr.
Wallace, F. J., MSc PhD <i>Bum</i>	Reader	Hewitt, W. P., BSc	Recog. T.
Gilchrist, J. M., MSc	Sr Lectr	Sloan, J., MSc	Recog. T.
Kerr, W. F. K., MSc PhD	Lectr	Beck, A., BSc	Recog. T.
Black, T. J., PhD <i>Camb</i> , BSc	Lectr	Microbiology	
McCloy, D., MSc, DIC	Lectr.	Graham, Mrs Patricia A., BSc <i>Nott.</i> , MSc <i>R'dg</i>	Recog. T.
1 Res Asst		Naval Architecture	
Extra-Mural staff (hon.), being Profs., Lectrs and Recognized Teachers (Recog. T.) at Municipal Coll of Technol. :—		Cameron, R. R. G., BSc	Recog. T.
Aeronautical Engineering		Pharmacy, Pharmaceuticals and Pharmacognosy	
Frost, R. J., BSc(Eng) <i>Lond</i>	Recog. T.	Henbest, Mrs Rosalind E. S., MB BS <i>Lond</i>	Recog. T.
Botany		Woodsides, W., BSc	Temp Recog. T.
McCourt, G. H., MSc	Recog. T.	Davidson, R. J., BSc	Temp. Recog. T.
Chemical Technology		Physics	
Hamer, D., BSc PhD <i>Leeds</i> , FRIC	Lectr.	White, O. M., BSc PhD	Lectr.
Chemistry		Crowley, T. A., BSc <i>Lond.</i> , PhD	Lectr
Barry, Ruth J. W., MSc	Recog. T.	Fleck, W., BSc	Recog. T.
Tyrrell, E., MSc <i>Mane</i>	Recog. T.	Dibdin, F. J. H., MA <i>Camb.</i>	Temp. Recog. T.
Blair, H. S., MSc	Recog. T.	Physiology	
Wilson, C., BSc DipEd	Recog. T.	Bull, Mrs Megan P., MB ChB <i>Cape T.</i> , MSc	Temp. Recog. T.
Gilmour, A., MSc PhD	Recog. T.	Textile Chemistry	
Engineering Drawing		Riordan, J. E., BSc	Recog. T.
McBratney, G.	Temp. Recog. T.	Textiles	
Electrical Engineering		Dorman, H. J., MSc	Lectr.
Fitton, J., DSc <i>Mane</i> , MSc	Recog. T.	White, O. M., BSc PhD	(Textile Testing) Lectr.
Bromley, A. A., MSc	Recog. T.	McCartney, E., MSc	Lectr.
MacNeill, N. J., MSc	Recog. T.	Pringle, A. V.	Recog. T.
Gurvan, S. B., MSc	Recog. T.	Workshop Technology	
Noblett, D. H., BSc	Recog. T.	McClenaghan, T.	Recog. T.
Monro, S. L., BSc	Recog. T.	Bell, W. H.	Recog. T.
Webb, J., BSc PhD	Recog. T.		

Zoology		MEDICINE	
Rosborough, T. U, BSc	Recog. T.	(for subjects of first 2 yrs — Anat., etc , sec above)	
Maxwell, T. H., BSc	Recog. T.	Anæsthetics	
ARTS		Dundee, J. W, PhD <i>Leiv.</i> , MD, FFARCS Lectr. 1 Sr Tutor	
Extra-Mural staff (Recognized Teachers) at Magee University College, Londonderry :—		Bacteriology , see Microbiol.	
Economic Geography		Child Health	
Linton, Anne E, BSc	Recog. T	Allen, F M B, MD, FRCP Nuffield Prof Carré, I. J, MA MD <i>Lond</i> , DCH <i>Camb.</i> & <i>Lond</i> , MRCP Lectr. 1 Sr. Tutor†, 2 Tutors, 3 Jr Tutors	
Economics		Dentistry	
Garmany, J W., MA BLitt <i>Oxon</i>	Recog. T.	Stoy, P. J, BDS <i>Birm.</i> , FDSRCS Prof. Adams, C. P., BDS, FDSRCS (Orthodontics) Lectr	
English		Smith, R J, BDS LDS <i>Birm</i> (Oper. D. Surg) Lectr.	
Warner, A. J, MA <i>Camb.</i> , PhD <i>Rand</i>	Recog. T	Saunbury, P, MSc LDS <i>Manc.</i> (Prosth. & Mech) Lectr	
Rhodes, E., MA <i>Lond.</i>	Recog. T.	Brown, W. A. B, MS <i>Ill.</i> (Orthodontics) Lectr Eccles, J D, BDS LDS, FDSRCS (Oper D Surg) Lectr.	
French		Stewart, D J, MDS, FDSRCS (Child & Prev. D) Lectr.	
Healey, F G, MA PhD <i>Birm.</i>	Recog. T	Findlay, I. A., LDS <i>Edin</i> , BDS, FDSRCS (D Surg) Lectr	
Geography		Porter, D C, MD (D Radiol.) †Lectr. Brown, W. M, MD DPH (Anæsth) †Lectr Megaw, J. McI, MB, FRCSEd (Surg. for D Students) †Lectr	
McCourt, D, MA PhD	Recog. T	Strain, R W M, BSc MD PhD, FRCPI (Med for D. Students) †Lectr	
Linton, Anne E, BSc	Recog. T	Cullen, P M., LDS (D. Mat Med.) †Lectr 1 Asst. Lectr., 1 Sr Tutor, 3 Tutors, 4 Jr Tutors	
German		Dermatology	
Edwards, O. H, DrPhil <i>Bonn</i> , MA	Recog. T.	... . †Lectr	
Woodland, T. W., BA	Recog. T.	Infectious Diseases	
Greek and Latin		Kane, F. F, MD DPH, FRCPI †Lectr.	
Lehèvre, F. J, MA <i>Camb.</i>	Recog. T	Materia Medica and Therapeutics	
Ussher, R. G, MA <i>Dub.</i>	Recog. T	Cronhelm, H. J, MD, MRCPI †Lectr.	
Prowse, Angela M., BA <i>Lond.</i>	Recog. T	Medicine	
History		Bull, G. M, MD ChB <i>Cape T.</i> , FRCP Prof. Womersley, R. A, MA MD BChir <i>Camb</i> , MRCP Sr. Lectr 4 Clin. Lectrs †, 1 Sr Tutor, 6 Jr. Tutors	
McCracken, J. L., MA PhD	Recog. T.	Medicine, Forensic	
Brown, J., MA <i>Dub.</i>	Recog. T.	Marshall, T K, MD ChB <i>Leeds</i> †Lectr. Smiley, J. A, OBE, MD (Toxicol) †Lectr.	
Clarke, A, MA PhD <i>Dub</i>	Recog. T.	Medicine, Social and Preventive	
Logic and Philosophy		Pemberton, J, MD <i>Lond</i> , DPH <i>Leeds</i> , MRCP Prof	
Nicholl, H F, MA <i>Dub.</i>		Recog. T.	
Mathematics, Pure and Applied		Coll. of	
Guthrie, W. G, MA <i>Edin.</i> , PhD <i>St.And.</i>		Technol :—	
ECONOMICS		Mathematics, Pure	
Extra-Mural staff at Municipal		Griffith, L., BSc <i>Lond.</i> , MA Lectr. Davies, A L, MA <i>Sheff.</i> Lectr O'Neill, F. R, BA Recog T Scott, S. A, MA Recog T Robinson, G E, BA <i>Lond</i> Recog. T	

Cheeseman, E. A., BSc(Econ) PhD *Lond.*
(Med. Stats.) Prof.
Carey, G. C. R., DPH *Lond.*, BSc MD
(Prev. Med.) Lectr
Froggatt, P., MA MD *Dub.*, DPH
(Soc. & Prev. Med.) Lectr
Lectr.

1 Tutor, 1 Temp Asst Lectr, 2 Soc.
Workers, 1 Res. Asst.

Mental Health

Gibson, J. G., DPM *Lond.*, MD, MRCP Prof.
White, J. G., BA EdM *Harv.*
(Clin. Psychol.) Lectr.†

2 Sr Tutors, 1 Tutor

Microbiology

Dick, G. W. A., MD DSc *Edn.*,
MPH *Johns H.*, FRCPed, MRCP Prof
Bartley, Eileen O., MD DPH Lectr
Dane, D. S., BA MB BChir *Camb.* Lectr
Mackenzie, D. W. R., BSc PhD *Edn.* Lectr.
Forsyth, J. R. L., MB ChB *Cape T.*
Superintend Lectr

1 Asst Lectr

Midwifery and Gynaecology

Macaffee, C. H. G., CBE, Hon. DSc *Leeds.*,
MB, FRCS, FRCSI, FRCOG Prof
Boyd, G., MB *Glas.*, FRCSEd, FRCOG †Lectr.
Harley, J. M. G., MD Lectr
4 Clin Lectrs †, 1 Tutor, 6 Jr Tutors

Neurology

Allison, R. S., VRD, MD, FRCP †Lectr

Ophthalmology

Wheeler, J. R., MB, FRCSEd †Lectr
4 Clin Lectrs.†

Orthopaedic Surgery

Withers, R. J. W., MD MCh, FRCSEd †Lectr

Otorhinolaryngology

MacLaughlin, F. A., MB, FRCS †Lectr

Pathology

Biggart, J. H., CBE, DSc MD, FRCP
Musgrave Prof. of Du., Inst. of Pathol.
McKeown, Elizabeth F., MD
(Morbid Anat.) Reader
Gibson, J. B., MD *Edn.*, MRCPed Lectr
4 Tutors

Pharmacology, see Therapeutics

Public Health (Administration).

Swann, W. G., BSc *Lond.*, MD DPH †Lectr

Radiology

Shepherd, W. H. T., MD †Lectr

Surgery

Rodgers, H. W., OBE, MB *Lond.*, FRCS Prof.

Welbourn, R. B., MA MD BChir *Camb.*,
FRCS (Surg. Sci.) Prof.
4 Clin. Lectrs.†, 6 Tutors

Surgery, Operative, and Applied Anatomy

Lavery, M. B., MB MSc, FRCS †Lectr

Therapeutics and Pharmacology

Wade, O. L., MA MD *Camb.*, MRCP Prof.
Elmes, P. C., MA BSc BM BCh *Oxon.*,
MD *Cleveland*, MRCP Lectr.
3 Tutors

Tuberculosis

.. †Lectr.

THEOLOGY

(i) Extra-Mural staff (hon.), being Recognized
Teachers of the Assembly's Coll. of the
Presbyterian Coll. in Ireland —

Ecclesiastical History and Symbolics

Bartley, Rev Prof J. M., MA DD PhD *Dub.*,
MA Recog. T.

Hebrew and Old Testament Theology

Wilson, Very Rev. R. J., MA *NUI.*,
BD *Lond.* Recog. T.

Hebrew, Biblical Theology, Hellenistic and New Testament Greek

.. Recog. T.

Philosophy of Religion, History of Christian Doctrine, Christian Ethics, Symbolics

Haire, Rev J. L. M., MA *Oxon.*, BD
MTh *Lond.*, DD Recog. T.

(ii) Extra-Mural staff, being Recognized Teachers
of Edgehill Theological Coll. —

Hebrew and Old Testament

Greenwood, Rev. R., BA BD *Dub.* Recog. T.

New Testament, Hellenistic and New Testament Greek

.. Recog. T.

EXTRA-MURAL STUDIES AND ADULT EDUCATION

Sample, R. H., MA *Camb.*

Reader, Dir. of Extra-Mural Studies

Arnold, D. M., BMus MA *Sheff.* (Music) Reader

Whitford, F. J., BA *Dub.*,
BSc(Econ) *Lond.* (Hist.) Lectr.

Frey, J., BA (Geog.) Lectr.

Lawrence, R. J., BSc(Econ) *Lond.*

(Pol. Sci.) Lectr

Mahood, G. H., MA (Philos.) Lectr

Ley, H., PhD *Basle*, BA *Lond.*

(Hist. of Art) Lectr.

Devlin, D. D., MA (Engl.) Lectr.

ADMINISTRATIVE AND OTHER STAFF

Academic Council, Sec. Prof F H Newark, CBE, BCL MA *Oxon*, Asst Sec R Cooper, MA PhD *Camb* Sec of Matric Cttee.
 Sr. Asst Sec, Clerk of Admissions, Clerk of Convocation: J M Freeland, BSc BComSc Asst Secs. A. M M. Steven, MA LLB *Aberd*, R. G Topping, MA *Dub* Asst Sec & Clerk of Exams D G Andrews, BSc(Econ) DPA Asst Sec to Bldgs Cttee. B B Mayes, MA *Edm*, BSc *Lond*. Admin Asst F Smyth, LLB Appts Officer: N W Buller, MA *Camb*. Asst Bursar: R J Brown, LLB Accountant D J Murphy Dep Librarian Alice K Megaw, BA, FLA Sub-Librarian. Jessie B Webster,

MA Asst Librarians: Frieda Brown, BLS *McG*, BA, W.D Linton, BLS *McG*, BSc, W G Wheeler, MA *Dub*, H J. Heaney, BA, Mrs Marion G Kelly, BSc(Econ) Med Officer in Charge of Students' Health: W Johnston, MD Asst. Med Officer D S. McLean, MB Welfare and Lodgings Officer: Mrs Grace Magill Bldgs Officer: A Forrester Dir. of Phys Educn Centre: A McDonald, MA DPE. Manageress of Dining Halls: Organist Prof P Cranmer, MA BMus *Oxon*, FRCO Warden of Queen's Elms Hall of Residence: H Mackle, DPhil *Oxon*, MSc PhD, FRIC

RECOGNIZED COLLEGES AND TEACHERS

EDGEHILL THEOLOGICAL COLLEGE, Lennoxvale, Belfast, 9 (tel Belfast 6677111) (Methodist) Principal—The Coll is recognized for courses leading to BD See also p 1287

MAGEE UNIVERSITY COLLEGE, Londonderry (tel: Londonderry 2145) President—W G Guthrie, MA *Edm*, PhD *St And* The Coll is recognized for first courses, not exceeding 3, in certain subjects leading to BA See also p 1286

MUNICIPAL COLLEGE OF TECHNOLOGY, College Sq, Belfast, 1 (telegraphic & cable address Technical College, Belfast, tel: Belfast 23896) Principal—D. H. Alexander, OBE, MSc *Camb*

The complete course for the BSc in textile technol (suspended temporarily), naval archit, pharmaceuticals and chem. technol may be taken at this coll Dean, fac of appl sci & technol Prof A V Stephens See also pp 1285, 1286.

PRESBYTERIAN COLLEGE (ASSEMBLY'S COLLEGE), Botanic Ave, Belfast, 7 (telegraphic & cable address Assembly's College, Belfast, tel Belfast 24761) (Presbyterian) Principal—Very Rev Prof R. J Wilson, MA *NU I*, BD *Lond* The complete course for the BD may be taken at this coll Dean, fac of theol Prof T A Sinclair See also p 1287

GENERAL INFORMATION

Queen's College was estab'd by royal charter in 1845, opened in 1849, and linked with colls at Cork and Galway as the Queen's Univ. in Ireland in 1850. Originally there were three facs, arts (with sci and lit divisions), med and law. In 1879 Queen's Coll became a constituent coll of the Royal Univ of Ireland. The governing body was the purely academic coll. council. At the turn of the century private benefactions led to increased bldgs. and addtl staff. In 1908 the coll became the Queen's Univ. of Belfast, the Royal Univ of Ireland being dissolved in the following yr. The senate became the governing body, consisting of reps of the public life of Ulster, of the profs and of grads. The identification of the new univ. with the interests of Ulster became closer on the estab' in 1920 of the govt of N. Ireland from which the univ's income is largely derived on the advice since 1945 of the Univ. Grants Cttee. Since Queen's Coll. became a univ the following facs have been added to the original 3 in 1910 sci and econ.; in 1921 appl. sci & technol with the co-operation of the Belfast Coll. of Technol., in 1924 agric., whose work is co-ordinated with that of the Ministry of Agric for N. Ireland; and in 1926 the fac. of theol, most

of the teaching for which is given in the Presbyterian Coll., Belfast, and in Edgehill Theol. Coll., Belfast.

CONSTITUTION The authorities of the univ are the chancellor, who is the titular chief officer, the pro-chancellors (of whom there may be 3), the pres and vice-chancellor, who is the principal academic and admin. officer, the senate, which is the governing body; the academic council, which is the body of profs and certain lectrs. responsible for internal academic affairs, the gen. bd of studies, which considers courses of study and recognition of colls. and teachers, the facs, and convocation, the statutory body of grads, which elects the chancellor and 8 members of senate and may consider any matter referred to it by senate.

INCOME (1959-60) Total income, £987,743 (parliamentary grants, 74 per cent.; endowments, 14 per cent., local authorities, 19 per cent., fees, 159 per cent., payments by govt depts, 27 per cent., other items, 41 per cent.).

FACULTIES AND DEANS *Agric*, Prof H G. Lamont (compat. pathol.); *appl sci & technol*, Prof A V Stephens (aeron. engin.), *arts*, Prof M. Roberts (hist); *econ*,; *law*, Prof

J L Montrose; *med.*, Prof J H Biggart (pathol.), *sci.*, Prof A Williams (geol.); *theol.*, Prof T A Sinclair (Greek)

UNIVERSITY PRECINCT Most of the bldgs. erected from time to time during the past 110 yrs are situated about one mile from the centre of the city. A number of new bldgs. are being planned or are in course of construction. The inst. of clin sci and inst. of pathol. are 1 mile distant adjoining principal hosp. Main athletic grounds are at Cherryvale (25 acres), about 2 miles from the univ. The phys. educn. centre is $\frac{1}{2}$ mile from the main bldgs.

GEOGRAPHICAL LOCATION Inst of Pathol., Grosvenor Rd, Belfast, 12 pathol. and microbiol., Inst of Clin Sci (med, surg, midwifery, therap., soc med, child health), Grosvenor Rd, 12, geol. bldg., Elmwood Ave, 9, agric bldg., Elmwood Ave, David Keir bldg., Stranmillis Rd, 9 (secon & civil engin., org, phys & inorg chem., bot. & zool.)

LIBRARY 330,000 vols

MUSEUMS Classical archaeol., nat hist, med, mat med

LABORATORIES Physiol. (Jaffé), biochem. (White), phys., anat., bot., geol., pharm., zool., agric.; marine biol. station, Portaferry

HOSPITALS AVAILABLE FOR CLIN TEACHING General—Royal Victoria H., Mater Infirmary, Belfast City H., maternity—Belfast City (Jubilee); gynæcol.—Royal Victoria, Samaritan, Belfast City, Mater Infirmary, child health & paediatrics—Royal Belfast H. for Sick Children, Ulster H. for Children & Women; ophthalmol. & otolaryngol.—Royal Victoria, Mater Infirmary, Belfast Ophthalmic, Bann H., infectious diseases—N I Fever H., mental diseases—Purdyburn H., anaesthetics—Royal Victoria, Mater Infirmary, Belfast City H.

ADMISSION See Appendix III.

Under certain conditions non-members of the univ. may be admitted to classes as occasional students

FIRST DEGREES 3 yrs pass and usually 4 yrs hon.—BA, BSc, BSc in pharmaceuticals or textile technol., LLB, BSc(Econ), BMus; 4 yrs pass & hon.—BAgr, BSc in aeron., civil, mech. or elect. engin. BA with hon. may be taken in classics, Latin, Engl lang & lit, geog., French or German or Spanish or Celtic langs., French or Gaelic or Spanish or Celtic langs. & lit, archaeol., maths, philos., scholastic philos., psychol., philos & psychol., medieval studies. The BMus and BEd (see below) are of hon. standard. BScs hon. in pure sci. may be taken in any subject of the fac—maths, appl. maths, phys., chem., bot., zool., geog., geol., physiol., biochem., anat., pathol., archaeol., psychol., pol & mod. hist., pol & philos. 6 yrs (of which the first 2 may be in other approved univs. or med schs.)—MB BCh BAO, BDS First degrees for BSc(Econ) and BSc (non-engin subjects) may be taken largely or solely on the basis of evening attend. at the univ

HIGHER DEGREES 2 yrs for grads of this or other approved univ.—BD, BEd (incl 1 yr dipl course) The MA may be taken by a BA 1 yr after graduation (exam or thesis or indep res.), or grads of other univs 2 yrs after graduation (res and thesis). The (1) DLit, (2) LL.D and (3) DMus are conferred on grads. of this univ distinguished in (1) letters, or lit., philos or hist. res., or (2) law, or legal or hist. res., or (3) musical composition, not less than 6 yrs (1) and 5 yrs (2) and (3) after primary degree. The DLit and LL.D may also be obtained by thesis or pubd works; the DMus by composition. The LL.M is open to LLBs of this or other univs not less than 1 yr after graduation (res with exam and dissertation). The MSc is open to a BSc of the univ and grads of other univs holding a degree of similar rank not less than 1 yr. after graduation (thesis or indep res. or exam in fac of appl sci in light elect. engin.) The DSc is open to grads of this univ. 5 yrs after graduation in any fac. It is conferred for res or scientific work in reln to sci., pure or appl. or for distinction in sci., engin. or other practical applicn of sci. The MSc(Econ) is open to a BSc(Econ) of the univ, and to grads of other univs. holding a degree of similar rank not less than 1 yr. after graduation (thesis or indep res.). The DSc(Econ) is open to grads of the univ 5 yrs after graduation in any fac. The MD, MCh and MAO are open to grads of the univ. in med. of 3 yrs. (if also grads in arts or sci., 2 yrs.) standing by exam. or thesis. The MAg may be conferred on a BAg of the univ or on grads of other univs who hold equivalent degrees after 2 yrs (thesis or indep res.). The DD is open to grads in div of the univ. of at least 6 yrs' standing. PhD not less than 2 yrs, open to grads. of this or other approved univ.

HONORARY DEGREES Any doctor's or master's degree may be awarded as an honorary degree.

The univ. does not award EXTERNAL DEGREES.

DIPLOMAS Educn (for grads), 1 yr. full-time or 3 yrs. pt-time, pub. health (for grads in med.), 1 yr., soc studies, 2 yrs., numerical maths (for those holding pass degree in maths. or equivalent)

RESEARCH Facilities for postgrad research available in most depts. of the univ. A list of publications by members of staff is to be found in the vice-chancellor's annual report. A report on recent research *The Pursuit of Knowledge* was published in 1959 by the printer to univ.

STUDY LEAVE. Each applicant for leave of absence is considered on its merits

FEES *Inclusive composite annual fees* (covering tuition, exams. (but not re-exams.), graduation, hire of microscopes and premium for personal accident insurance) Arts (BA, BMus, BEd), £35 but £30 for 4th hon. yr., LLB, £35 with £30 for 4th yr., BSc (pure or appl. in engin.), £52 but £40 for 4th hon. yr. in pure sci.; BSc(Econ), £35 with £30 for 4th hon. yr.; MB BCh BAO,

£65 (incl. hosp. fees); BDS, £65 (incl. hosp. fees); BAgr, £52 but £40 for 5th hon. yr.; dipl. in educn., dipl. in soc. studies, £35; res. students, £20. The above refer to full-time courses. Annual enrolment fee, £6 6s (incl. membership of union), except for pt-time students, students in the fac. of theol. and students not studying for a degree for whom the fee is £3. Re-exam. fee, £2 per subject. Convocation fee on graduation, £1. 1s.

ACADEMIC YEAR Oct. 1 to Sept. 30. 3 univ. terms of 13, 12 and 14 wks.; 3 lecture terms of 10, 10 and 6 wks.

ADULT EDUCATION (see also 'Teaching Staff', above). The Jt. Cttee for Adult Educn. formed in 1931 of reps of univ., WEA (N.I.), Ministry of Educn. and local educn. authorities. Lectures, autumn and winter classes and residential courses provided through WEA. Financed by grants from univ., Ministry of Educn., local educn. authorities and other public bodies. Over 150 classes and courses provided annually.

UNIVERSITY EXTENSION lectures by members of the univ. staff and other lecturers by invitation are given in Belfast and other towns.

ENTRANCE SCHOLARSHIPS. About 28 tenable for 3 or 4 yrs., aggregate value £1100 p.a., 8 tenable for 1 yr. only, aggregate value about £300 p.a.

POSTGRADUATE AWARDS open to grads of other univs. see p. 808.

APPOINTMENTS OFFICER advises students as to preparation for entrance to various govt. services and other appts. All communications to the appointments officer (N. W. Buller, MA Camb.)

ASSOCIATIONS. Queen's Univ. Assocn. Secs. J. F. Gillies, OBE, BE N.U.I., BSc Lond., PhD, Coll. of Technology, Belfast; W. Johnston, MD, 25 University Sq., Belfast.

There is also a Queen's Univ. club which meets in London Sec., N. J. Harper, MSc PhD, 243 King's Rd., Harrow, Middlesex.

STUDENT RESIDENCES Queen's Elms, University Rd., Belfast, 7 (tel. 20460), for men students, accomm. 102, residence £40 per term (10 weeks) (warden H. Mackie, DPhil Oxon, MSc PhD), Riddel Hall, Stranmillis Rd., Belfast, 9 (tel. 666062), for protestant women students, accomm. 65, residence £120 p.a. (warden: May Dawson, BA), Aquinas Hall, 77 Malone Rd., Belfast, 9 (tel. 665178), for Roman Catholic women students, accomm. 78, residence £37 per term (10 weeks) (further particulars from Mother Prior-ess). Riddel Hall and Aquinas Hall were endowed for residence by women students of univ. but are not administered by the univ. All students not living in halls or at home or with relations must live in registered lodgings. Bd. and lodging obtainable in the city from about 55s per wk upwards. A list of accomm. is maintained by the lodging & welfare officer at 25 University Sq.

STAFF CLUB. There is a staff house at 10-11 University Sq. with limited residential club facilities.

RECOGNITION OF OTHER UNIVS. Students from other approved univs may apply for exemption from a yr's attendance for a first degree, attendance and exam. in some of the subjects for first degrees in arts and sci., in consideration of equivalent courses and exams. elsewhere.

UNIVERSITY MILITARY FORMATIONS. O.T.C. (TA) Founded 1908. OC - Lt.-Col. H. J. Johnston, OBE, TD, LLB, Royal Ulster Rifles. Provides trg. in infantry, signals, med. and REM E sections at the drill hall QUBUAS, formed 1941. OC S/Ldr L. L. Cumming. Lecture rooms, 18 College Gdns., Belfast. Flying instrcn.—5 Chipmunk aircraft at Sydenham airfield. Members enlist as officer cadets in RAFVR. The 3-yr. course leads to civil private pilots' licence. WRAC (TA), founded 1950; centre—48 University Rd., Belfast, now under command O.T.C. (TA.)

STUDENT HEALTH SERVICE. All students are bound by regn. to submit to med. exam. by the univ. med. officer in charge of student health, 25 University Sq., Belfast. All med. and dent. students are required to be re-examined before commencing clin. studies. All students must undergo an annual chest X-ray. Mantoux-negatives are vaccinated with B.C.G. A nursing sister and nurse are available for routine treatment and dressings. The dir. of phys. educn. is a qualified physiotherapist and co-operates in remedial exercises.

ATHLETIC FACILITIES 25 acres of playing-fields at Cherryvale, Belfast, provide pitches for rugby, assocn. and Gaelic football, hurling, hockey and cricket, tennis courts and grass athletic track. The phys. educn. centre, Sans Souci Park, Malone Rd., Belfast, provides for squash, badminton, table-tennis, net-ball, boxing, fencing, gymnastics, etc. The boat house at Lockview Road provides facilities for pairs, fours and eights. There is a dir. of phys. educn. and two assts. to the dir.

STUDENTS' REPRESENTATIVE COUNCIL. Establd. to promote the general interests of students and represent them in all matters affecting their interests, to afford a recog. means of communication between students and authorities of the univ., to promote social intercourse among students and to bring them into closer relns. with students of other univs.

STUDENTS' UNION SOCIETY. Founded 1897. Contains reading, writing, library, cttee and billiard rooms. Extended in 1933 by a larger dining-hall and kitchens as the result of a gift from the Pilgrim trust. The centre of undergrad. club and soc. activities.

WOMEN STUDENTS' HALL. Houses adjacent to the univ. at 20-21 University Sq. provide reading, study and refreshment facilities for women.

PUBLICATIONS. *Calendar* (Oct), £1 Unofficial publications. students' paper, *The Gown* (fortnightly in term); *Students' Handbook* (Oct), 1s
Queen's Belfast 1845-1949. The History of a

University, T W Moody and J. C Beckett
 Faber, 1959, £3.3s

PRINTER TO THE UNIVERSITY Marjory Boyd,
 MA, 2 Corporation St, Belfast, 1.

THE YEAR 1960

PRINCIPAL BENEFACTIONS D S I R, £15,005 for rocket res in dept of appl maths, Council of Natl Fund for Res into Poliomyelitis & other Crippling Diseases, £70,000 towards cost of new bldg for dept of microbiol

RETIREMENTS Mrs Helen Dales (agric bot), V Liversage (agric. econ), Prof I. M G Llubera (Spanish)

RESIGNATIONS A. M Arthurs (engin maths), G D Carnall (Engl), apptd lectr in Engl lang & rhetoric, Edin, Dr. L J Clein (mental health), Dr J Colhoun (mycol & plant pathol), apptd to Barker chair of cryptogamic bot, Manc, Dr S. C R Dennis (engin maths), apptd sr lectr in appl. maths, Sheff, J. J Graneek (librarian), apptd. librarian, A N U, M. A. Millner (law), apptd reader in Engl law, Univ Coll., Lond, J. Patton (agric bacteriol)

DEATHS Emer Prof W. J McCallister (prof of educn, 1919-46), C W Young (extra-mural lectr in pharm)

HONORARY DEGREES LLD—Sir Eric Ashby, formerly vice-chancellor; Sir Andrew Cohen, permanent British rep. on Trusteeship Council, U N, Sir W Cecil McKee, formerly lord mayor of Belfast, Lady Mary Helen Ogilvie, principal of St Anne's Coll., Oxford, and wife of former vice-chancellor DSc (pure sci)—H T A McKeag, formerly reader in orthod. DSc (appl. sci)—Sir Walter Drummond, member of D S I R Council MA—Olive Baguley, benefactress, Esmé Mitchell, benefactress

* A student who graduates with a pass degree may subsequently read for honrs, and if successful will obtain a cert. of honrs

Statistics

STUDENT NUMBERS, 1960-61
 (as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	2473	446
Women . . .	822	65
Total . . .	3295	511

Distribution by Faculties Agric., 87; appl. sci & technol, 678, arts, 1109, econ., 400, law, 102, med, 628; sci, 774, theol, 28 Total: 3806

Included in the figures above are —

Postgraduate students, 245

New admissions, 958.

Students from other countries, 324 (Countries from which largest numbers came: Nigeria, 46, Fed. of Malaya, 45; Repub of Ireland, 43, Ghana, 24).

DEGREES AWARDED (1959-60) Agric. BAg, 9, MAg, 1 Appl sci. & technol BSc, 79, MSc, 8 Arts BA (gen & pass), 112, BA honrs, 69; BMus, 2, MA, 6 Dent BDS, 16, MDS, 1 Econ: BSc(Econ), 51, MSc(Econ), 1. Educn. BEd, 3 Law LLB, 15 Med MB BCh BAO, 67, MD, 8; MCh, 2. Sci: BSc, 103, MSc, 11 Theol. BD, 2 PhD (all facs.) 29. Total number of first degrees awarded, 523

DIPLOMAS AWARDED (1959-60) DPH, 6, DipEd, 47, LDS, 2, DipSocStudies, 14

CERTIFICATES AWARDED (1959-60). Sci. honrs., 32*, econ. honrs., 4*

WEST INDIES

University College of the West Indies (p. 1294)

WEST INDIES

UNIVERSITY COLLEGE OF THE WEST INDIES*

Founded 1946 ; incorporated by Royal Charter 1949

Postal Address . Mona, Kingston 7, Jamaica, The West Indies

Cables and Telegrams . University Jamaica

Telephone . P B.X 76661

VISITOR—H.M. THE QUEEN

CHANCELLOR—H R.H. THE PRINCESS ALICE, COUNTESS OF ATHLONE, GCVO, GBE, VA

PRINCIPAL—W A. LEWIS, BCom PhD Lond., MA Manc., Hon LHD Col., Hon LLD Tor., Wales,
Williams & Brist

VICE-PRINCIPAL—P M SHERLOCK, CBE, BA Lond., Hon LLD Leeds

REGISTRAR—H W SPRINGER, CBE, MA Oxon , Hon. DScSoc Laval

LIBRARIAN—W E. GOCKING, BA Lond , FLA

TEACHING STAFF

[†=Part-Time]

Anatomy, see Medicine

Biochemistry, see Medicine

Botany

Skelding, A D, BSc Lond , DSc Bum Prof
Adams, C D, BSc PhD Lond Sr Lectr.
Robertson, Mrs Edith T, BSc Glas , FGS Lectr
Sidrak, G H, MSc Cairo, PhD Bum Lectr
Hunt, P, BSc PhD Brist Lectr
Chapman, G. P, BSc PhD Bum Lectr.

Chemistry

Haynes, L J., PhD Lond & Camb , DIC, FRIC Prof
Martin, S. L., DIC, MSc Lond , FRIC (Phys. C) Sr Lectr.
Bartley, W G, BSc PhD Lond. (Inorg C.) Lectr.
Burnell, R H., BSc StrG Wms., PhD New Br. (Org. C) Lectr
Sangster, A W., BSc Belf , PhD Lond (Org C.) Lectr.
Chan, W. R., MSc PhD Lond Lectr.
Grinson, A., MSc PhD Lond Lectr
Daniels, M., BSc PhD Durh. Lectr
Lalor, G C, MSc Lond Lectr.
Magnus, K. E., MSc PhD Lond. Res. Fellow
Plummer, J R., BA Dub , PhD Edin. Res. Fellow
Stuart, K L, BSc McG Jr. Res Fellow
Seaforth, C E., BSc Lond., PhD Wales Jr Res Fellow

Classics

Carrington, A G, MA Lond Sr. Lectr.
Dietrich, B C, BA PhD Lond. Sr Lectr
Paul, G M, MA Oxon. Lectr
Heller, H, BA Lond Asst Lectr
Jackman, C E., MA Durh., DipEd Oxon †Lectr
Crick, J. A., BA Durh †Lectr

Economics

Kennedy, C M., MA Oxon. Prof, Hd of Dept.
Huggins, H. D., MS Corn , AM PhD Harv. (Appl. Econ) Prof
Cumper, G. E., MA Camb , PhD Lond (Econ) Sr Lectr.
Mills, A E, BA BCom MSc Lond (Bus Admin) Sr Lectr.
Edwards, D T., BSc Wales, MSc R'dg , PhD Lond (Econ.) Lectr.
Davison, R B, BSc(Econ) PhD Lond (Econ) Lectr
McIntyre, M. A, BSc(Econ) Lond. (Econ.) Lectr.
Brown, G. A., BSc(Econ) Lond †Lectr.
Carberry, H D, BA BCL Oxon †Lectr.
Salmon, U H, LLB Lond †Lectr
Preston, A Z, JP, LLB Lond †Lectr
Hardy-Henry, H J †Lectr

Education

Figueras, J J M., AB Holy Cross, TD MA Lond , Hon PhD Boston Prof.

* Associate Member of the Association of Universities of the British Commonwealth

Walters, Elsa H, BA PhD *Lond.*
(Centre for Study of E) Sr. Lectr.
Gordon, Shirley C, MA *Lond* Sr. Lectr.
Gray, C R, BSc(Econ) DipEd *Lond* Lectr.
Muller, Elizabeth, DPhil *Marburg* Lectr.
Bishop, G D, BSc DipEd *Sheff.* Lectr.
Doyle, Phyllis, MA *Lond*
(Centre for Study of E.) Res. Fellow

English

Owens, R. K., MA *Camb*, PhD *Lsw* Prof
Stevick, R D, MA *Tulsa*, PhD *Wis* Lectr.
Kingham, A M, MA PhD *Aberd* Lectr.
Ingledew, J E, DipEd MA *R'dg* Lectr.
Carr, W I, BA *Camb* Lectr.
Bailey, Mrs B L, MA *Col* Jr Res. Fellow

Geology

Burke, K C, BSc PhD *Lond.* Sr. Lectr.
Robinson, E, BSc *Birm* Lectr.

Government

Mills, G E M., BSc(Econ) *Lond*,
MPA *Harv.* Assoc. Dir. Pub. Admin.
Manley, D R., AB *Col*, MA *Lond.*,
PhD *Lsw* (Soc. Admin.) Sr. Lectr.
Mark, F X, MA PhD *Edin.*
(Pol. Instns) Lectr.
Buchan, O M C, MA *Aberd*, BA *Oxon.*
(Pol. Thought) Lectr.
Dolly-Besson, June, BASoc *Col*
(Soc. Work) Tutor
Benewick, R. J., BS *Conn*, MA *Ohio*
Res. Fellow

History

Rummer, W G, MA *Camb*, AM *Harv* Prof
Goveia, Elsa V, BA PhD *Lond.*
(W. Indian Hist.) Prof
Augier, F R, MA PhD *St. And.* Lectr.
Bartlett, C J, BA PhD *Lond* Lectr.
Furley, O W, MA BLitt *Oxon* Lectr.
Laurence, K O., MA PhD *Camb* Lectr.
Hall, D G H, BA *Tor*, MSc(Econ)
PhD *Lond* (Econ. H.) Lectr.
Chandler, M J, BA *Lond* Archivist

Languages, Modern

Whinnom, K., MA *Oxon* Prof
Coulthard, G R, BA *Oxon.*, PhD *Lond* Sr. Lectr.
Maiter, W, MA *Edin.*, LsL *Paris* Lectr.
Soons, C A, MA *Sheff* Lectr.
Jackson, A. B., BA *Sheff*, DU *Paris* Lectr.
Alleyne, M C, BA *Lond*, DU *Stras* Lectr.
Ching, K M., BA *Lond* Lectr.
Buscher, Mrs Gertud, MA *Edin*, DU *Stras*
Asst. Lectr.

2 Foreign Assts**Mathematics**

Robinson, L R B., MA *Lond.* Sr. Lectr.
Cade, R, MSc *PhD Lond* Sr. Lectr.

Read, R. C., MA *Camb*, PhD *Lond.* Sr. Lectr.
Gladwell, G M L., BSc PhD *Lond* Lectr.
Marshall, T W., BA PhD *Camb* Lectr.
Heymans, P., BA PhD *Lond.* Lectr.
Sanders, P R, BA *Oxon.* Asst Lectr.
1 Deptl. Asst

Medicine, see below**Microbiology, see Medicine, below****Pathology, see Medicine, below****Physics**

Bowen, F H, OBE, DIC, AM *Col.*,
PhD *Lond* Sr. Lectr., Hd of Dept.
MacDonald, S G G, MA *Edin*,
PhD *St And*, FIP Sr. Lectr.
Gosling, R. G., BSc PhD *Lond*, FIP Sr. Lectr.
Allinson, P A., BSc PhD *Durh.* Lectr.
Paton, F, BSc *St And.* Lectr.
Jutsum, P. J., BSc *R'dg* Lectr.
Reid, R J O, BSc *Belf*, PhD *Dub* Lectr.
Hall, R B, BSc *Manc.* Lectr.
Armstrong, R. J., BA MSc *Dub* Lectr.

Physiology, see Medicine, below**Sociology**

Lewis, W A, BCom PhD *Lond.*, MA *Manc.*,
Hon LHD *Col*, Hon LLD *Tor.*,
Wales, Williams & Brist Hd of Dept
Braithwaite, L E. S., BA *Lond* Sr. Lectr.
Roberts, G. W P, BSc *Lond* Sr. Lectr.

Surgery, see Medicine, below**Zoology**

Steven, D M, MA DPhil *Oxon*,
AM *Harv.* Prof
Goodbody, I M, BA *Dub.*, PhD *Aberd* Lectr.
Page, W A, BSc *Lond* Lectr.
Mettrick, D F., BSc *Wales*, PhD *Lond* Lectr.
Heywood, J, BSc *R'dg.* Asst Lectr.
1 Deptl. Asst

MEDICINE**Anatomy**

Harper, W. F., MD BSc PhD *St. And* Prof
Hoyte, D, MB ChB MD *Manc* Sr. Lectr.
Levene, C, MB BCh MD *Belf* Lectr.
Lectr.

Biochemistry

Kean, E. A., BA *Tor.*, MSc *McG.*,
PhD *Lond* Lectr.
Ellington, E V, MA *Oxon.*, PhD *Lond* Lectr.

Medicine

Cruckshank, E K., OBE, MD ChB *Aberd*,
FRCP Prof.
Back, E. H., MA MB BChir *Camb.*,
MRCP (Paediatrics) Sr. Lectr.

Goulay, R. J., BSc *Oxon*, MD *Glas*,
DPH *Leeds* (Prev. Med.) Sr. Lectr
Stuart, K. L., MD BCh BAO *Belf*,
DTM&H *Lsw*, MRCP Sr Lectr
Irvine, R. A., MB ChB *Leeds*, MRCP Lectr
(Prev. Med.) Asst Lectr.
Angus, Joan, MB ChB *Glas*, MRCP
(Paediatrics) Lectr
Christian, D. E., MB BS *Lond*, MRCP Lectr
Richards, R., MB BS *Durh*, MRCP Lectr
Standard, K. L., MB BS *Lond*, MPH *Pitt*
(Soc. & Prev. Med.) Lectr
Wynter, Mrs. Leila, MB ChB *Edin*,
MRCPed (Paediatrics) †Lectr.
Johnston, H., MB ChB *Edin*, MPH *Harv*
(Prev. Med.) Hon Lectr

Microbiology

Grant, L. S., MB ChB *Edin*, MPH *Mich*,
DipBact *Lond* Reader
Belle, E. A., BA *Lincoln*, MSc PhD *McG*
Lectr.
Beñ, T. E., MB BS *Lond* Lectr.
2 Deptl. Assts

Obstetrics and Gynaecology

Stewart, D. B., MBE, BSc MD *Manit*,
FRCSCan, FRCOG Prof.
Douglas, C. P., BA *Camb*, MB ChB *Edin*.
Sr Lectr
Cummins, G. T. M., MB ChB *Aberd* Lectr
Gardiner, J., MB ChB *Aberd*. Lectr
Anderson, Mavis Lectr.

Pathology

Bras, G., MD *Batavia* Prof.
Robertson, W. B., MSc MD *St. And*.
(Morbid Anat.) Sr Lectr
Harland, W. A., MB BCh BAO *Belf*,
FRCP Sr Lectr.
Goldberg, I. J. L., MSc *Rhodes*, MA *Natal*
(Chem. Pathol.) Sr. Lectr.
McFarlane, H., MSc *Manit*.
(Chem. Pathol.) Lectr.
Hayes, J. A., MB ChB *Brist*
(Morbid Anat.) Lectr
Clark, P. A., MB BS *Lond*. (Hematol.) Lectr
Milner, P. F. A., MB ChB BAO *N U I*,
DCP *Lond*. (Hematol.) Lectr
Parker-Williams, E. J., MB BS *Lond*.
(Hematol.) Res. Asst.
Ward, E. E., MB BS *Lond*
(Chem. Pathol.) Res. Asst.
Lim-Sue, Shirley, BA MSc *Marquette*
Res. Asst.

Physiology

Mackay, I. F. S., MSc PhD *Mane* Prof
Feng, P. P., MD *Shanghai*, MS *Tennessee*,
BS *Yenching* (Pharmacol.) Sr. Lectr
Goreau, T., MS PhD *Yale* Sr. Lectr.
Palmer, J. F., BSc *Lond* Lectr.
Walker, R. L., MB ChB *Mane*. Asst Lectr

Surgery

Annamunthodo, H., MB BS *Lond*, FRCS
(Clin. S.) Prof
Golding, J. S. R., OBE, MA MB BChir
Camb, FRCS (Orthop.) Reader
Weston, P. A. M., MB BS *Lond*, FRCS Lectr
Masson, A. F., BSc MB BS *Lond*,
FRCSed, FRCS Lectr
Gore, D. O., BA MD *Col* Lectr
Bearn, A., MB BS *Lond*, FRCS Lectr.

Associate Lecturers

R. O. Cooke, MD CM *Dal*. (Mental Dis),
D. W. Degazon, MB BS *Lond*, FRCS
(Ophthalmol.); F. W. Jacobson, MD *Berl*
(Dermatol.); L. D. March, LDS *Lond*
(Dental Surg.); J. A. B. Jones, MB BS
(Radiol.), R. J. Stout, MB BS *Lond*,
FFARCS (Anasth.), M. Sugar, MD *Berl*,
FRCSed (E.N.T.), E. S. Sutherland, DPH
Edin & *Glas*. (Venereal Dis.); S. P. W.
Street, FRCS (Surg.), E. J. Valentine, MB
ChB *Edin*, DPH (Dis. of Chest)

AGRICULTURE (in Trinidad)

Agriculture

Wilson, P. N., BSc(Agr) MSc PhD *Lond*,
DiplAnimalGenetics *Edin* Prof
Campbell, L. G., BSc *McG*, DICTA Lectr
Houghton, T. R., BSc(Agric) *Lond*,
DipAgric *R'dg* Lectr
Osbourne, D. F., BSc *R'dg*, DipAgric *Camb*,
DTA *Trin* Lectr
Williams, H. E., PhD *Edin*, MSc *Wis*,
DVM *Tor*. †Lectr.
Butterworth, M. H., BSc *St And*, PhD
Aberd. Animal Nutrition Chemist
Henderson, T. H., DICTA Farm Manager
Kasasian, L., BSc *Birm*.
(Herbicides) Res. Agronomist

Botany and Plant Pathology

Purseglove, J. W., BSc *Mane*, AICTA,
FLS Prof
Richards, P. T., MA *Oxon* Lectr.
Richardson, W. D., BSc *Aberd* Lectr.
Barnes, R. F., BSc *Lond* (Plant Pathol.) Lectr.

Chemistry and Soil Science

Rodrigues, G., FRIC Sr Lectr
Fewster, J. A., BSc PhD *St And*. Sr Lectr

Zoology

Underwood, G. L., DSc *Lond*. Prof
Emsley, M. G., BSc *Lond*. Lectr

REGIONAL RESEARCH CENTRE

... Dir. of Res.
Cope, F. W., MSc PhD *Lond* Dep. Dir. of Res.
Bartley, B. G. D., BScAgr *Alld*, MSc
PhD *Iowa* Sr. Plant Breeder
Plant Breeder

Gooding, H. J., BSc *Manc* Plant Breeder
 Williams, D. B., DICTA
 (Food Crops) Asst to Plant Breeder
 Murray, D. B., MA *Camb*, AICTA
 Sr. Plant Physiologist
 Nichols, R., MSc *Lond.* Plant Physiologist
 Ipton, E. F., BSc *Lond.*, DipAgrSc *Camb.*
 Plant Pathologist
 Breese, M. H., DIC, BSc *Wales* Entomologist
 Griffiths, L. A., BSc PhD *Liv.* Biochemist
 Quesnel, V. C. J., MA *Tor*, PhD *Camb.*
 Biochemist
 Coulter, J. K., BSc BAgr *Belf.*,
 DipAgrSc *Camb*, FRIC
 Off. in charge, Soil Res and Survey
 Section
 Maliphant, G. K., BSc PhD *Brist*
 Sr Soil Chemist
 Moss, P., MSc *Wales* Soil Chemist
 Vernon, K. C., BSc *Manc.*, AICTA
 Sr Soil Surveyor
 Stark, J., BSc *Glas* Soil Surveyor
 Twyford, I. T., BSc *Lond*
 Agronomist-Soil Surveyor
 Walmsley, D., MSc PhD *Lond*, AKC
 Soil Chemist
 Smith, G. W. R., MSc *Lond* Soil Physicist
 Spector, J., BSc *Lond* Spectrographer
 Hodnett, G. E., BSc *Liv* Statistician
 Robson, G. R., BSc PhD *Durh.*, FGS Seismologist
 Barr, K. G., BSc *Lond* Assistant Seismologist
 Arlett, C. F., BSc *Wales*, PhD *Burm.*
 Microgeneticist, Rubber Res. Unit
 Ross, R. J., Manager, River Estate
 White, V. E., DICTA
 Asst. Manager, River Estate

ENGINEERING (in Trinidad)

Chemical Engineering

..... Prof.
 Konasiewicz, Z. M., DiplIng *Warsaw* Lectr

Civil Engineering

Everard, K. A., DIC, BSc PhD *Lond.* Sr. Lectr.

Electrical Engineering

Carpenter, C. J., MSc(Eng) *Lond.* Prof

Mechanical Engineering

Whutton, P. W., BSc(Eng) *S'ton*, PhD
Lond. Prof
 Robinson, R. O. A., BA PhD *Camb*
 (Maths) Sr Lectr
 Thomasson, E. C., BSc *Manc* Sr. Lectr
 Richardson, V. A., BSc(Eng) *Lond* Asst Lectr

EXTRA-MURAL STUDIES

Dir — H. L. Wynter, MA *Oxon.*, PostgradCertEd
Lond
 Admin Asst — Mrs Gertrude Hamilton,
 DipSocSc DipMentalHealth *Lond*
 Resident Tutors — *Barbados*—V. A. A. Archer,
 BSc *McG*, MSc *Tor*, *British Guiana*—
 , *British Honduras*—V. H. B. Leslie,
 BA *Lond.*, *Jamaica*—A. A. Thompson, BA
Lond, CertEd *Camb.*, *Trinidad*—Ruby Sam-
 lalsingh, BA *Manc*, DipSocSc *Liv*, *Grenada*
 & *St. Vincent*—Margaret S. Blundell, BA
Camb, *St. Lucia & Dominica*—J. Brown, BA
Lond; Staff Tutors in Drama — E. G. Hill,
 DipDA *Lond.*, N. D. Vaz Staff Tutor in
 Govt R. M. Nettleford, BA *Lond*, BPhil
Oxon; Staff Tutor in Indust. Relns. — Z. A.
 Henry, BA *Lond*, MA PhD *McG*, Staff Tutor
 in Public & Business Admin. — B. A. M.
 Collins, BA *Lond*, MA PhD *Oregon*, Radio
 Educn Unit — H. P. Morrison, BS MA *Col*

INSTITUTE OF SOCIAL AND
ECONOMIC RESEARCH

Dir — H. D. Huggins, MSc *Conn*, AM PhD
Harv
 Sr. Res. Fellows—Carleen O'Loughlin, MA MSc
Camb, PhD *AN.U.*, R. T. Smith, MA
 PhD *Camb*
 Res. Fellows—A. W. Singham, BA *Wesleyan*,
 MA *Mitch*; A. Kundu, MA *Calc*, PhD(Econ)
Lond, G. E. Eaton, BA PhD *McG*, K. J.
 Crowther, BA DPhil *Oxon*
 Jr. Res. Fellows—E. R. Chang, BSc(Econ) *Lond.*,
 MAEcon *Yale*; G. A. Abbott, BA *Lond*, MA
Yale, L. O. Taylor, BA *Tor.*, MSc(Econ)
Lond, J. B. Kelly, BA *Melb.*, MSc(Econ)
Lond; R. D. Thomas, MA *Tor.*

ADMINISTRATIVE AND OTHER STAFF

Sr. Asst. Registrar — C. E. Jackman, MA *Durh*,
 DipEd *Oxon* Asst Registrars — Mrs Ivy L.
 Mayner, BA *Tor.*, LLB *McG*, A. E. Burt, MA
How., PhD *Tor.*, M. E. Morris, BA *Lond* &
Oxon, H. McE. Gibson, BA *Lond* Bursar.
 A. Z. Preston, JP, LLB *Lond* Steward Major
 K. T. Craig, MBE. Dir. of Music — T. E.
 Murray, MBE, BMus *Edin* Supervisor, Bldg.
 Services. Public Relns. Officer — C. G.
 Lindo. Accountant — H. C. Holness Office
 Manager. Mrs Sylvia I. Dunkerly, MBE

Domestic Bursar — S. M. Bryan Dep. Librarian:
 K. E. Ingram, BA *Lond*, FLA Sr. Asst.
 Librarian Mercedes D. Josephs, BA *Lond*.
 Asst Librarians — Elsie Woo-Ming, BA *Tor*,
 MS *Col*, Elaine Henriques, BA BLS *McG*,
 E. Chapman, MA DipEcon *Oxon*, Audrey K.
 Roberts, Mrs Valene C. Rusden, BS *Col* War-
 dens Chancellor Hall, F. H. Bowen, DIC, AM
Col., PhD *Lond*; Irvine Hall, F. M. Worrell,
 BA *Manc.*; Mary Seacole Hall, Mrs Lucile M.
 Mathurn, BA *Lond*; Taylor Hall, S. L. Martin,

DIC, MSc Lond., FRIC Lodgings Officer
Capt. E La Croix.

Resident in Trinidad

Vice-Principal P M Sherlock, CBE,
BA Lond, Hon LL.D Leeds
Registrar G G Gianetti, MA DipAgrEcon

Camb; Asst Registrar. Phyllis A. Clarke, BA
DipEd Lond Bursar R Adau, DPA Durh.
Warden, Milner Hall J. A. Fewster, BSc PhD
St And Accountant C M. Jolly. Sr. Asst.
Librarian Alma T. Warner, BA Lond, MS Col;
Asst Librarian R G. J. M. Cave, FLA Clerk
of Works: I J Cook Actg Health Officer.
H S Littlepage

GENERAL INFORMATION

The univ. coll. was incorporated by royal charter granted on Jan. 5, 1949. Its establt. was recommended and planned by a cttee. of the Commission on Higher Educn in the Colonies under the chairmanship of Sir James Irvine,* then principal and vice-chancellor of the Univ of St Andrews Undergrads were first admitted in Oct 1948 The govt of Jamaica has given on lease for 999 yrs a site of over 1 sq ml about 7 miles from Kingston The facs. of agric and of engin were establd in 1960 The Imperial Coll of Trop Agric. at St Augustine, Trinidad, became a fac. of the univ coll., to be known as the fac. of agric.—Imperial Coll of Trop Agric., U C W I The Imperial Coll. of Trop Agric was founded in 1921 as the W. Indian Agric Coll on the recommendation of a cttee apptd to conduct res and provide instructn in trop agric It was formally opened in Oct 1922 In 1924 its name was changed to 'The Imperial Coll of Trop Agric' 2 yrs later the coll was incorporated by royal charter In March 1959 the governing bodies of U C W I and Imperial Coll. of Trop. Agric agreed, with the approval of the fed and unit govts, that from Aug 1, 1960, the Imperial Coll would be incorporated into the Univ. Coll as the fac. of agric The fac. of engin. is sited in assocn with the fac. of agric at St Augustine in Trinidad The Trinidad facs are situated at St Augustine, 8 miles E of Port of Spain The coll farm of 300 acres is situated 3 miles W of the coll The vice-principal of the coll is resident at St Augustine.

CONSTITUTION The univ. coll. is an autonomous instn governed by a council on which each of the British Caribbean territories, the senate, the guild of grads and the Inter-Univ. Council for Higher Educn Overseas are represented The senate consists of members of the teaching staff with the principal as chairman

INCOME Grants have been made from Colonial Devel. & Welfare funds towards the capital costs, but recurrent expenditure is met from the revenues of the Caribbean territories and the fed. govt. Income for 1960-61 (excl. facs. in Trinidad): £1,092,000 (grant from fed. govt & Caribbean territories, 88.4 per cent, fees, 2.4 per cent; interest from endowments, 1.2 per cent., other sources, 8 per cent) Income for

1960-61 of fac. of agric (Imperial Coll of Trop Agric) derived from contributions by principal trop territories in the British Commonwealth, H.M. Treasury, various assocns, companies and individuals, and tuition fees.

FACULTIES AND DEANS Agric, Prof J W Purselove (bot), arts, . . . engin, Prof P W Whitton (mech engin), med, Prof G. Bras (pathol), nat scis, Prof L. J. Haynes (chem), soc scis, Prof H D Huggins (econ).

LIBRARY Jamaica main library at Mona, Jamaica, contains about 100,000 vols on arts, scis and med, as well as substantial holdings in microform, mostly of periodicals There is a growing section of rare and current material on the W Indies Trinidad about 40,000 vols comprising for the most part the library of the former Imperial Coll of Trop Agric, to which is being added an engin and gen coll library

TEACHING HOSPITAL Med & surg, obstet. Total, 350 beds, 102 clin students

INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH, attached to fac. of soc scis, is mainly concerned with appl res and social questions affecting the Caribbean area; members of its staff work in centres other than Jamaica.

REGIONAL RESEARCH CENTRE (Trinidad) associated with fac. of agric Res is undertaken mainly in these subjs: cocoa, banana, soils, improved food crops, stats, seismol, and sugar res. on behalf of B W I A

ADMISSION Men and women are eligible for admission if they are qualified either to satisfy the entrance requirements of Univ of London (see Appendix III) or a sp scheme § operating between the Univ of London and the univ coll.

FIRST DEGREES (of Univ of London) The univ coll is in a special relationship with the Univ of London §, the degrees awarded are those of London, the schemes of exam being devised jty. by the coll and the univ and the exam conducted by examiners from both bodies

3 yrs. BA gen. or hon. (in Engl, French, hist, maths, Latin, Spanish), BSc gen or sp. (in bot., chem, maths., phys, zool.), BSc(Econ), BSc(Agric), BSc(Eng) 6 yrs. MB BS. No degree can be obtained without attendance upon

* Report of the West Indies Committee of the Commission on Higher Education in the Colonies (H.M.S.O. 1945, Cmd 6654).

§ For a note on these 'special relationship' arrangements, see p. 961.

the prescribed courses in the univ. coll. extending (except in approved cases) over at least 3 academic yrs after matric

HIGHER DEGREES (of Univ of London) Grad. students and full-time teaching and res. staff of the univ. coll. may register for the PhD degree of the Univ of London under the internal regns. The MSc and MA degrees under sp. relationship may be taken 2 yrs after graduation. Agric. the associateship of Imperial Coll. may be taken after 1 yr by BSc(Agric.) grads. or by persons holding an approved degree in agric. of a British Commonwealth univ. or other univ. approved by the coll.

DIPLOMAS 1 yr—educn., chem., technol.

CERTIFICATES 1 yr—educn., pub. admin.

STUDY LEAVE, with passages provided for the staff member, his wife and children up to a max. of not more than 5 full passages in all, to the U.K., W. Europe or N. America, is granted in respect of every 3 yrs' service. Provision of passages to places other than those mentioned is at discretion of the council.

FEES. A charge of £150 covers residence, sports sub. and simple med. attention for 31 wks' residence. Tuition fees £50 p.a. in med., agric. & educn., £25 p.a. in sci., £20 p.a. in arts and soc. scis.

ACADEMIC YEAR 1961-62: M'Mas, Oct. 1-Dec. 16; Hil, Jan. 14-March 24; Trin., April 15-June 23, 1962-63: M'Mas, Oct. 7-Dec. 22; Hil, Jan. 20-March 30; Trin., April 21-June 29.

SCHOLARSHIPS The univ. coll. awards open schol. by exams held in the Caribbean territories each yr. In addition, several of the territories award exhibitions to those educated or born

in the territory. Private benefactions have established other awards. Several schol. have been endowed under the Princess Alice appeal.

PRINCIPAL 'OPEN' POSTGRADUATE AWARD T. Geddes Grant 1cs fellowship, awarded to grads. normally resident in the Caribbean territories for postgrad. work in subs. of Caribbean interest.

GRADUATES' ASSOCIATIONS Guild of grads. incl. not only grads. of the Univ. Coll. of the West Indies but grads. of other univ. instns. recog. for the purpose by the coll. council.

RESIDENCE Undergrads. required to live in residence for 2 yrs of their course. Halls for men: Chancellor Hall, Taylor Hall, Irvine Hall and Milner Hall. Women: Mary Seacole Hall. Address of Milner Hall: Univ. Coll. of the West Indies, St. Augustine, Trinidad, West Indies. Address of all others: Univ. Coll. of the West Indies, Mona, Kingston 7, Jamaica, West Indies.

STAFF RESIDENCES Houses and flats made available to members of staff.

HEALTH SERVICES Members of staff and students receive med. attention through the univ. coll. health service in Jamaica, and through the med. officer, St. Augustine.

STUDENTS' UNION There is a guild of undergrads. which among other activities manages a students' union.

PUBLICATIONS. *Year Book*, *Principal's Report*, *Caribbean Quarterly*, *Caribbean Affairs* (series of pamphlets), *Social and Economic Studies*, *West Indian Medical Journal*, *The Pelican*, *The Pelican Annual* (student publications), *St. Augustine Prospectus*, *Tropical Agriculture* (from 1954, publ. in London), *Memoirs and Reports*

THE YEAR 1960

PRINCIPAL BENEFACTIONS Ford Foundation, £357,142; United Nations spec. fund, £325,714; Canadian govt., £250,000; U.S. dept. of agric., £21,428; Rockefeller Foundation, £102,857.

MAJOR BUILDING DEVELOPMENTS Bldgs. completed: additional staff accom.; dining-room; Mary Seacole Hall; marine biol. lab.; alterations to depts. of physiol. and biochem. *Approaching completion*: block J, Mary Seacole Hall; new block, Irvine Hall, and soc. scis. dept.

NEW DEPARTMENTS AND CHAIRS • Depts. of geol., sociol., civil engin., mech. engin.; depts. & chairs of electr. engin., chem. engin.; chairs of W. Indian hist. and of clin. surg.

RESIGNATIONS Mrs. Peggy Antrobus (asst. registrar), to England; G. F. Blane (physiol.) to Brit. Drug Houses Ltd.; G. D. Castor (mod.

langs.), apptd. lectr. in French, Glas; J. L. Chandler (chem.), to Ghana; B. Chapman (govt.), to England; A. K. Croston (Engl.), to Camb.; D. R. Dicks (classics), apptd. prof. of classics, Univ. of Ghana; R. E. G. Farley (extra-mural staff tutor), to W.I.; R. H. Forster (agric.), A. L. Jolly (agric.), P. P. King (sugar chem. & tech.), M. Locke (zool.), Roma E. C. Munro (sugar chem. & tech.); D. A. T. New (zool.), to England; P. K. Newman (econ.), M. G. Smith (econ.), to USA; G. A. Stirling (pathol.), J. A. Tulloch (med.), apptd. prof. of med., Makerere Univ. Coll.; D. C. Turk (microbiol.); H. Vine (chem. & soil sci.), to Ibadan; C. C. Webster (agric.), to England; R. D. E. Yearwood (sugar chem. & tech.).

DEATHS. Major E. F. F. Smith (supervisor of bldg. services).

Mona		
Statistics		
STUDENT NUMBERS, 1960-61		
(as at the beginning of the academic year)		
	<i>Full-Time</i>	<i>Part-Time</i>
Men	590	—
Women . .	320	—
Total	910	—
Distribution by Faculties <i>Arts</i> , 275; <i>educn</i> , 30; <i>med</i> , 254; <i>nat scis</i> , 239; <i>soc. scis</i> , 103; <i>pub. admin.</i> , 9 Total 910		
Included in the figures above are :—		
Postgraduate students, 35		
New admissions, 352.		
DEGREES AWARDED (sp relationship with Univ		

of London) (1959-60) *Arts* : BA, 38, BA (hons), 30 *Med* : MB BS, 25 *Nat scis* : BSc, 16, BSc (spec), 5. Total number of first degrees awarded, 114

DIPLOMAS AWARDED (1959-60) DipEd, 16, DipChemTech, 2

St Augustine		
Statistics		
STUDENT NUMBERS, 1960/61		
	<i>Full-Time</i>	<i>Grads. and sp course students</i>
	39	38
DIPLOMAS AWARDED (1960) DICTA, 10, DTA, 26, AICTA, 1.		

APPENDICES

- I Universities of the Republic of Ireland (p. 1302)
- II Universities of South Africa (p. 1326)
- III University admission requirements (p. 1391)
- IV Students from other countries in United Kingdom universities (p. 1465)
- V British academic institutions outside the Commonwealth (p. 1469)
- VI Short bibliography (p. 1471)
- VII Commonwealth scholarship and fellowship plan (p. 1479)
- VIII The Association of Universities of the British Commonwealth (p. 1482)

APPENDIX I

UNIVERSITIES OF THE REPUBLIC
OF IRELAND

UNIVERSITY OF DUBLIN, TRINITY COLLEGE (p 1302)
NATIONAL UNIVERSITY OF IRELAND (p. 1311)
UNIVERSITY COLLEGE, DUBLIN (p 1313)
UNIVERSITY COLLEGE, CORK (p 1318)
UNIVERSITY COLLEGE, GALWAY (p 1323)

[Information compiled as at 22/9/61]

UNIVERSITY OF DUBLIN,
TRINITY COLLEGE

Founded 1592

Postal Address : Dublin 2, Republic of Ireland
Cables and Telegrams . Trinity, Dublin
Telephone . Dublin 72941-6

CHANCELLOR—The Rt Hon. THE EARL OF IVEAGH, KG, CB, CMG, LLD
VICE-CHANCELLOR—The Rt. Hon THE EARL OF ROSSE, LLD
VISITORS OF TRINITY COLLEGE—THE CHANCELLOR (or VICE-CHANCELLOR) ; The Hon Mr. Justice
T C. KINGSMILL MOORE, LLD
PROVOST—A. J McCONNELL, DU^{Rome}, Hon. DSc Belf., Hon. ScD Col., MA ScD
LIBRARIAN—H. W PARKE, MA Oxon & Dub , LittD
BURSAR—F B. CHUBB, DPhil Oxon , MA Oxon & Dub
REGISTRAR—G F. MITCHELL, MA MSc
SENIOR LECTURER—T W MOODY, BA Hon D^{Lat Belf} , PhD Lond., MA
SENIOR TUTOR—W F PYLE, MA PhD

SENIOR FELLOWS OF THE COLLEGE

Luce, A. A., MC, Hon DLitt <i>Belf.</i> , MA LittD DD	Duncan, G. A., MA LLB
Johnston, J., MA Oxon & Dub, <i>Sr Proctor</i>	Broderick, T. S., MA N U I & Dub
Godfrey, F. La T., MA, <i>Catechist and Sr. Dean</i>	Walton, E. T. S., PhD Camb., Hon DSc <i>Belf.</i> , MA MSc
Parke, H. W., MA Oxon & Dub, LittD, <i>Vice-Provost and Librarian</i>	

JUNIOR FELLOWS OF THE COLLEGE

Stanford, W. B., MA LittD	Delaney, C. F. G., MA PhD, <i>Tutor</i>
Wormell, D. E. W., PhD Yale, MA Camb. & Dub., <i>Public Orator</i>	Ryan, W. J. L., MA PhD
Moody, T. W., BA Hon DLitt <i>Belf.</i> , PhD Lond, MA, <i>Sr. Lectr</i>	Riley, E. C., MA Oxon & Dub, <i>Tutor</i>
O'Meara, R. A. Q., ScD MD, FRCPI	Poole, J. H. J., MA MAI ScD
Mitchell, G. F., MA MSc, <i>Registrar</i>	Weingreen, J., MA PhD
Quin, E. G., MA	Arnould, E. J. F., PhD DLitt Lond, Dèsl Paris, MA Lond & Dub
Furlong, E. J. J., MA	Cockei, W., PhD DSc Manc, MA ScD, FRIC
Gregg, A. H., MSc <i>Belf.</i> , PhD Lond, MA, <i>Tutor</i>	Jessop, W. J. E., MSc MD, FRCPI
Luce, J. V., MA Oxon & Dub, <i>Tutor</i>	Greene, D. W., MA
Webb, D. A., MA PhD Camb & Dub, ScD	Wright, W., BSc Glas, PhD Aberd, MA, MICE
Pyle, W. F., MA PhD, <i>Sr. Tutor</i>	McMurry, T. B. H., MA PhD, <i>Tutor</i>
McDowell, R. B., MA PhD, <i>Tutor, Jr. Dean and Registrar of Chambers</i>	Erskine, C. A., MA PhD
Pepper, D. C., BSc Lond, PhD Camb, MA	Stewart, F. S., MD, FRCPI
Lyons, F. S. L., MA PhD, <i>Tutor</i>	Dowrick, F. E., MA Oxon. & Dub., <i>Jr. Proctor, Tutor</i>
Chubb, F. B., DPhil Oxon, MA Oxon. & Dub, <i>Bursar</i>	Watts, W. A., MA, <i>Tutor</i>
	Dawson, G. W. P., BSc Lond., MA Camb & Dub

HONORARY FELLOWS

Ross, Sir W. David, KBE, LittD, FBA	Synge, J. L., MA ScD, FRS
Weaver, J. R. H., MA LittD	Worrie, Sir James M., CBE, MA Camb, LLD Glas
Clark, Sir George N., MA Camb & Oxon, LLD	Gwynn, R. M., MA BD
Aberd, DrLC <i>Unicht</i> , DLitt <i>Durh.</i> , Oxon, <i>Sheff & Camb</i> , LittD, FBA	McConnell, A. A., MA MCh, FRCSI
Starkie, W. F., CBE, MA LittD	

TEACHING STAFF

[† = Part-Time]

Anatomy, Human, and Embryology, see also Zool	Botany and Plant Biology
Erskine, C. A., MA PhD	Webb, D. A., MA PhD Camb & Dub., ScD Prof
Kinnear, N. A., MB, FRCSI (Appl. A.) Lectr.	Watts, W. A., MA Lectr.
Weekes, Blanche, MA MD MSc (Human A.) Lectr, Tutor	Losel, Mrs Dorothy M., BSc PhD Glas Jr Lectr
O'Morchoe, C. C. C., MA MD (on leave) Jr. Lectr	Taggart, J., BSc Glas. Jr Lectr.
	Celtic Languages, see also Irish
Arabic, see Oriental Langs	Quin, E. G., MA Reader
Archæology, see Classical Archæol. and Irish Archæol	Chemistry
Astronomy	Cocker, W., PhD DSc Manc, MA ScD, FRIC Prof
O'Connor, F. J., MA Lectr.	Pepper, D. C., BSc Lond, PhD Camb, MA (Phys. C.) Prof.
	Stuart, E. R., BSc St And, MA, FRIC Lectr, Tutor
Biochemistry, see Medicine	McMurry, T. B. H., MA PhD (on leave) Lectr.
	Davis, W. J., BSc PhD <i>Belf.</i> , MA Lectr.

Loneragan, G. A., BSc *N.U.I.*, MA Jr. Lectr
Boyle, P. H., BA Jr. Lectr

Classical Archaeology

Parke, Prof. H. W., MA *Oxon. & Dub.*,
LittD Lous Claude Purser Lectr.

Classics

Stanford, W. B., MA LittD (Greek) Regius Prof.
Wormell, D. E. W., PhD *Yale*,
MA *Camb. & Dub.* (Latin) Prof.
Luce, J. V., MA *Oxon. & Dub.* (on leave) Lectr
Hinds, A. E., MA Jr. Lectr.
Goodman, Valerie A. H., BA *Lond.* Jr. Lectr

Commerce

Ryan, W. J. L., MA PhD (Indust. Econ.) Prof.
Lyons, F. S. L., MA PhD (Econ. Hist.) Lectr
Haughton, J. P., MA MSc (Comm. Geog.) Lectr
Thornton, E. H., MSc(Econ) *Lond.*, MA
(Stats.) Lectr, Tutor
Murray, W., MA *Edin.* (Acctg.) Lectr.
Magrath, C. R. R., MA
(Bus. Orgn., Banking, Foreign Trade) Lectr

Moran, Prof. Frances E., Hon. LL.D. *Belf.*,
MA LL.D. (Comm. Law) Lectr
Corrigan, T. H., MA (Insurance) Lectr
Smurthwaite, J., MA (Indust. Psychol.) Lectr
Foley, P. A., MA (Transport) Lectr.
Pakenham-Walsh, A. A., MA *Oxon. & Dub.*
(Management) Lectr
Abrahamson, M. W., MA LL.B.
(Indust. & Comm. Law) Lectr.

Dentistry

Friel, E. S., MDentSc ScD (Orthodontics) Prof.
Lecturers
Ganly, A., MA BDentSc (D. Prosth.)
O'Brien, B. E., MA MD (Med. for D. Students)
Dockrell, R. B., BDentSc MB (D. Anat.)
Healy, K. G., MA LDS (D. Surg.)
Hogan, N. J., MB BDentSc (Oral Surg.)
McCollum, S. T., MB, FRCSI
(Surg. for D. Students)

Divinity, see Theol.

Economics, see Pol. Econ. and Comm.

Education

Crawford, Rev. E. A., MA BD PhD Prof.
Moore, M. F., BED *Edin.*, MA Lectr, Tutor
Powell, J. P., BA *Brist.* Jr. Lectr.
Little, Mrs. Anita C., MA Asst

Engineering Science

Wright, W., BSc *Glas.*, PhD *Aberd.*, MA,
MICE Prof.
Graham, V. W., MA (Maths.) Lectr.

FitzGibbon, G., MA MAI (Civil E.) Lectr., Tutor
O'Clery, D., MA MAI (Mech. E.) Lectr
Kirwan, R. W., MA MAI (Civil E.) Lectr
Eccles, W., MSc *Mane.* (Mech. E.) Lectr
Scaife, B. K. P., BSc(Eng) PhD *Lond.*
(Electr. E.) Lectr
MacCormack, P. D., BA BSc PhD
(Electr. E.) Lectr.
Haughton, D. N., BA MAI (Bldg. Construcn.) Lectr
Jones, N. E., BA BAI (Town Planning) Lectr.
O'Neill, J. W., BA MAI, MIEE
(Electr. E.) Lectr.
Cox, R. C., MA BAI (Civil E.) Jr. Lectr

English Language and Literature

Edwards, P. W., MA PhD *Birm.* Prof.
Pyle, W. F., MA PhD Reader
French, R. B. D., MA Lectr., Tutor
Walton, J. K., MA MLitt Lectr
Pheifer, J. D., BA *Notre Dame*, MA *Oxon.*
Jr. Lectr
Reid, F. A., BA Asst
Cluysenaar, Anne, BA Asst

French

Arnould, E. J. F., PhD DLit *Lond.*,
DésL *Paris*, MA *Lond. & Dub.* Prof.
Skeffington, O. L. S., MA PhD Reader
Leventhal, A. J., MA PhD Lectr
Shields, H. E., MA Jr. Lectr.
O'Regan, M. J., MA *Lond. & Dub.* Jr. Lectr.
Rollin, Geneviève, BA Jr. Lectr.
North, Meta E., MA Asst.

Genetics

Dawson, G. W. P., BSc *Lond.*,
MA *Camb. & Dub.* Reader
Smuth-Keary, P. F., BA PhD Jr. Lectr

Geography

Haughton, J. P., MA MSc Reader
Andrews, J. H., MA *Camb.*, PhD *Lond.* Lectr
Davies, G. L., MA *Mane. & Dub.* Lectr, Tutor
Aalen, F. H. A., BA *Durh.* Jr. Lectr.
Soulsby, J. A., MA *Aberd.* Jr. Lectr

Geology and Mineralogy

Hudson, R. G. S., DSc *Lond.*, FRS,
Actg. Hd. of Dept Lectr.
Mitchell, G. F., MA MSc Lectr.
Bailey, D. K., BSc PhD *Lond.*, MA
(on leave) Lectr.
Lewarne, Gillian C., BSc PhD *Rdg.* Jr. Lectr

Geophysics

Poole, J. H. J., MA MAI ScD Prof

German

Thomas, L. H. C., MA *Oxon. & Dub.*,
PhD *Leeds* Reader

Losel, F. A. G., DrPhil *Fran.*, MA Jr Lectr
 O'Boyle, Ita, MA *N U I* Jr Lectr
 Wells, J. J., BA *Leeds* Asst.

Hebrew, see Oriental Langs

History, Ancient

Parke, H. W., MA *Oxon.* & *Dub.*, LittD Prof

History, Ecclesiastical, see Theol

History, Modern, see also Oratory and Hist.

Moody, T. W., BA Hon DLit *Belf.*,
 PhD *Lond.*, MA Prof
 Otway-Ruthven, Annette J., PhD *Camb.*,
 MA Lecky Prof.
 McDowell, R. B., MA PhD Lectr.
 Lyons, F. S. L., MA PhD Lectr
 O'Sullivan, D., MA LittD

(Internat Affairs) Lectr
 Lydon, J. F. M., MA *N U I*, PhD *Lond.* Jr Lectr
 Simms, J. G., MA *Oxon.* & *Dub.*, PhD Asst
 Drake, K. M., MA *Camb.* Jr Lectr

Irish

Greene, D. W., MA Prof
 O'Cadhaun, M., MA Lectr
 Macaulay, D., MA *Edin* & *Camb.* Lectr.
 Risk, Mrs May H., MA PhD Jr Lectr.

Irish Archaeology

Mitchell, G. F., MA MSc Reader

Italian

McWilliam, G. H., BA *Leeds*, MA Lectr
 Tomacelli, E., DGuir *Naples*, MA Lectr.
 Salvadori, Corinna, MA *N U I*. Jr Lectr

Law, see below

Mathematics

Brodbeck, T. S., MA *N. U. I.* & *Dub.*
 Erasmus Smith's Prof
 Meredith, C. A., MA *Camb.* Lectr
 Graham, V. W., MA Lectr
 Crane, L. J., BSc PhD *Glas* Lectr
 Murdoch, B. H., AM PhD *Prin.*, BA Jr Lectr

Medicine, see below

Music

Hewson, G. H. P., MA MusD †Prof

Oratory and History, see also Hist., Mod

Moody, T. W., BA Hon DLit *Belf.*,
 PhD *Lond.*, MA Erasmus Smith's Prof

Oriental Languages, see below

Philosophy

Furlong, E. J. J., MA Prof.

Luce, A. A., MC, Hon DLit *Belf.*, MA
 LittD DD (Metaphys.) Berkeley Prof
 Godfrey, F. La T., MA Lectr
 Denard, W. V., MA BLitt Lectr, Tutor
 Fisher, E. M. W., MA *Oxon* Jr Lectr.

Phonetics

Quin, E. G., MA Lectr

Physics

Walton, E. T. S., PhD *Camb.*, Hon. DSc
Belf., MA MSc Erasmus Smith's Prof.
 Poole, J. H. J., MA MAI ScD Lectr
 Gregg, A. H., MSc *Belf.*, PhD *Lond.*, MA Lectr.
 Delaney, C. F. G., MA PhD Lectr
 Elliott, R. B., MSc *Birm.*, BA Lectr

Physiology

Torrens, D. S., MA MB
 Prof. & King's Prof. of Insts of Med
 Wilson, R., MD, FRCPI (Appl P) Lectr.
 Fry, R. J. M., MB Lectr.
 O'Morchoe, Mrs Jean, MB Jr Lectr
 Walmsley, J. B. W., MB *Belf.* Jr Lectr.

Political Economy, see also Comm

Duncan, G. A., MA LLB Prof.
 Johnston, J., MA *Oxon* & *Dub.*
 (Appl Econ) Prof
 Ryan, Prof W. J. L., MA PhD Lectr.
 Tait, A. A., MA *Edin* Jr Lectr.
 Brock, Catherine, BA *Oxon* Jr Lectr
 McGilvray, J., MA *Edin.* Asst

Political Science

Chubb, F. B., DPhil *Oxon*, MA *Oxon* &
Dub. Prof
 Thornley, D. A., MA PhD Jr Lectr.

Russian

McMackin, Margaret M., MA *Belf.* Lectr.

Sanskrit, see Oriental Languages, below

Social Studies

Crotty, Mrs Mary S., MA *Aberd.* Dir
 Coughlan, J. A., MA *N U. I.* Jr Lectr

Spanish

Riley, E. C., MA *Oxon* & *Dub.* Reader
 Rogers, D. C. de W., MA Lectr
 Jt Lectr

Theology, see below

Veterinary Medicine, see below

Zoology and Comparative Anatomy

Granger, J. N. R., PhD *Lond.*, BA MSc Prof
 Howie, D. I. D., BSc PhD *St And.*, MA Lectr.
 Goodhue, R. D., BSc PhD *Lond.* Jr Lectr.
 Powell, B. L., BSc *Wales* Jr Lectr

LAW

Moran, Frances E., Hon. LLD *Belf*, MA
 LLD †Regius Prof of Laws
 Dowrick, F E, MA *Oxon & Dub* Lectr.
 Jackson, P, LLB *Liv*, BCL *Oxon.* Jr. Lectr.

Penal Legislation, Constitutional and Criminal Law, and Law of Evidence

Russell, M., BA LLB †Recl Prof.

Roman Law

McKenna, C B, LLD †Lectr.

MEDICINE (PHYSIC)

(for subs of the first 2 yrs —Anat., etc.,
 see above)

Syngé, V M, MD, FRCPI
 (Practice of Med) King's Prof
 Gatenby, P B B, MA MD, FRCPI Prof.
 O'Brien, B. E., MA MD Lectr.

Anæsthetics

McCormick, V. O., MD, FRCPI †Lectr

Bacteriology and Preventive Medicine

Stewart, F S, MD, FRCPI Prof.
 McKeever, J. D, MD Lectr.
 Roberts, W. S. L., MA Lectr.
 Martin, W T, MA Jr Lectr.
 Pomeroy, Harriet M, MA Asst

Biochemistry

Spencer, B, BSc PhD *Liv* Prof.
 Boggust, W. A., MSc *Durh.*, MA PhD Lectr.

Laryngology and Otology

Woods, R R, MB, FRCSI †Lectr

Materia Medica and Pharmacy

Micks, R. H., MA MD, FRCPI †King's Prof

Medical Jurisprudence

Wallace, J A, BA BSc MB, FRCPI †Lectr

Medicine, Experimental

O'Meara, R A. Q., ScD MD, FRCPI Prof.

Midwifery

Davidson, A. H, MD, FRCPI, FRCOG †King's Prof
 Fleming, J. B, MAO MD, FRCPI, FRCOG (Midwifery & Gynæcol) †Prof
 McVey, H, MAO MD †Asst
 Browne, A D H., MAO MD †Asst

Pædiatrics

Steen, R E, MD, FRCPI †Prof.
 Doyle, E. E. †Lectr.
 Rees, J. P. R., MB †Lectr.

Pathology

O'Meara, R A Q., ScD MD, FRCPI Prof.
 Mullaney, Mrs. Joan M., MD BSc *N.U.I.*
 MA Reader
 McCrea, P. C., MD *Belf* (Appl P) †Lectr.
 Pringle, S, MB MCh, FRCSI
 (P of Bone) †Hon. Lectr.
 Clarke, N. P. G., MB BSc *N.U.I.*, MA Lectr.

Pharmacology

Pennington, G. W., MD *Liv* Lectr

Physic

Syngé, V. M., MD, FRCPI Regius Prof.

Psychological Medicine

Bennet, E A., MC, MA ScD MD DPM †Lectr.
 Eustace, H J, MB DPM †Lectr.
 Moore, J. N P, MD DPM, FRCPI †Lectr.
 McCracken, T., MB †Lectr.

Radiology

McDonogh, C L, MA MD †Lectr

Social Medicine

Jessop, W. J E, MSc MD, FRCPI Prof.
 Bourke, G J., MB *N.U.I.* Lectr.
 Pringle, R B, MB BChir *Camb*, FRCPI
 (Indust Med) †Lectr.
 McCollmack, J D, MC, Hon MSc *N U I*
 (Control of Infectious Dis) †Lectr.
 Harbison, J A, MD *Belf*, MPH *Harv*,
 DPH (Pub Health) †Lectr.
 Barry, V C, DSc *N U I*
 (Chemotherapy) †Lectr.
 Carson, J F, MA (Chem. Pathol.) Asst

Surgery

Pringle, J. S. M., BA MB *Camb. & Dub*,
 FRCS †Regius Prof
 Henry, R. F. J, MB, FRCSI (Chn Surg) Prof.
 McCollum, S T, MB, FRCS †Asst.

Surgery, Orthopædic

Chance, A, MCh MD, FRCS Hon Prof

Surgery, Urological

Lane, T J D, MA MD MCh †Lectr.

ORIENTAL LANGUAGES**Arabic**

Weingreen, Prof. J., MA PhD Lectr.

Hebrew

Weingreen, J, MA PhD Erasmus Smith's Prof
 Baker, J., MA LLB PhD †Lectr

Sanskrit and Comparative Philology

Quin, E G, MA Lectr

THEOLOGY

(see also Oriental Languages)

Biblical Greek

Quin, Rev C. W. C., BA BD

†Prof.

*Divinity

Hartford, Rev R. R., MA DD

Regius Prof

Vokes, Rev. F. E., MA BD *Camb*

Archbishop King's Prof

Armstrong, Rev J. W., MA BD †Wallace Lectr.

Jenkins, Rev. R. G. F., MA BD (Bible) †Lectr.

Proctor, Rev W. C. G., MA BD †Asst.

Greening, Rev E. W., MA BD †Asst.

Salmon, Rev T. N. D. C., MA BD

†Asst

Daunt, Rev E. G., BD

†Asst

Ecclesiastical History

Davies, Rev G. C. B., MA DD *Camb* &
Dub

Prof

Pastoral Theology

Davies, Rev. G. C. B., MA DD *Camb*. &
Dub

Prof.

VETERINARY MEDICINE

Clinical Veterinary Practices

Baxter, J. T. Prof

Earnshaw, D. G., BSc *Edn.* (Surg.) Sr. Lectr

Nunn, W. R., BA MVB Lectr.

McCaughy, W. J., MS *Ohio State*, BA

MVB (Prev Med.) Lectr

(Animal Husbandry) Lectr.

Clinical Veterinary Sciences

Sleith, F. St. G., MA Prof.

Hatch, C., MS *Iowa* (Parasitol.) Sr. Lectr.

Gallaher, M. A., MSc (Bacteriol.) Sr. Lectr.

Irfan, M., BVetSci *Parg*, PhD *Lond*Smith, I. K. M., MSc *R'dg* (Pathol.) Lectr.

(Bacteriol.) Lectr.

Pre-Clinical Veterinary Sciences

Nicholson, J. A., MA *Camb* & *Dub*,PhD *Camb*., M VetSci *N.U.I.* Prof.Keating, J. P., BSc *Lond* (Anat.) Sr. Lectr.Murphy, O. M. G., MA *Camb*., BSc *Edn*

(Physiol.) Lectr.

Winder, F. A. G., MSc *N.U.I.*

(Biochem.) Lectr.

Jackson, N., BSc BAgr PhD *Belf*

(Pharmacol.) Lectr.

ADMINISTRATIVE AND OTHER STAFF

Public Orator D. E. W. Wormell, MA *Camb*. & *Dub*, PhD *Yale*. Dep. Librarian F. J. E. Hurst, MA *Oxon* & *Dub*. Asst. Registrar J. H. Shaw, MA Sec. to Registrar D. M. O'N. Brittain, BCom *Birm*. Agent J. M. Walsh, MC, MA Dean of Women Students Anne E. R. Brambell, MA Warden of Residences: Margaret E. MacManus, MA. Appointments Officer D. N. K. E. Montgomery, BA Sec., Houses of Residence Cttee Margaret E. MacManus, MA Law Agent and Keeper of the Records D.

McGillycuddy, MA Clerk of Exams. Winifred M. Matthews, BA Medical Adviser to Resident Students J. A. Wallace, BA BSc MB, FRCPi Consulting Architect A. I. N. Roberts, BA *Camb*., MA BAI. Accountant W. T. Booker, MA Warden, Trinity Hall Anne E. R. Brambell, MA Deans of Residence (Presbyterian Students) Rev G. B. G. McConnell, BA *Belf*., MA, (Church of Ireland) Rev. E. C. T. Perdue, BA BD; (Methodist) Rev. G. W. Ferguson, MA.

ASSOCIATED COLLEGES

CHURCH OF IRELAND TRAINING COLLEGE, 4 Kildare Place, Dublin (tel. 62946) Chaplain-Secretary—Rev R. J. Ross, MA BD The 2 yrs' course of trg for teaching in primary schools is conducted partly at Trinity College, Dublin, and exempts from 1st 2 yrs of BA course provided that the candidate is qualified for matric

MAGEE UNIVERSITY COLLEGE, Londonderry

(tel. Londonderry 2145) President—W. G. Guthrie, MA *Edn*, PhD *St And* Students of Magee Univ. Coll. may proceed to the degree of BA (hons or pass) of the Univ. in the following subs: maths, classics, philos., mod lit, anc. & mod lit, mod hist & pol, econ & pol. Such students must attend lectures at Trinity Coll. for at least 1 term in the 3rd & 4th yrs. Full details on applicn. to sr tutor, Trinity Coll.

GENERAL INFORMATION

Trinity Coll. was founded and incorporated by royal charter in 1592 as 'mater universitatis', but no other coll. has been founded, so that 'Dublin Univ.' and 'Trinity Coll.' are practically interchangeable terms. The original charter granted

very full legislative powers to the provost and sr fellows, who constituted the bd. Legislation of Charles I. took away many of these powers, which were reserved to the crown. By letters patent of 1911 the crown again granted wide powers of

making statutes to the corporation, subject to the consent of a majority of the fellows and the approval of the visitors.

The coll occupies a large site in the middle of the city, with ample grounds for recreation and athletics.

CONSTITUTION The general govt of the coll is in the hands of the bd. of Trinity Coll, which consists of the provost, sr fellows, 4 reprs of jr fellows and 2 reprs of the non-fellow profs. The univ. council, formed by reprs from the bd and various facs and schs, has the right of nomination to most professorships, and in conjunction with the bd can make changes in the curriculum, but otherwise has only advisory functions.

REPRESENTATIVES IN SEANAD EIREANN W B Stanford, MA LittD, O L S Skeffington, MA PhD; W. J. E. Jessop, MSc MD, FRCP.

INCOME (1960-61). Total income, £522,288 (govt grant, 35.6 per cent.; endowments, 19.2 per cent.; fees, 38.9 per cent.; payment for services, 4 per cent.; other, 2.3 per cent.).

The LIBRARY of Trinity Coll. has enjoyed since 1801 the privilege of receiving a copy of every book pubd in the UK. It contains about 970,000 printed books and over 3000 MSS incl. an important collection in Irish. The Lecky libr, based on the libr of the historian W E H Lecky, caters for the schs of hist, econ. and legal sci. There are smaller librs in the schs of mod langs, med, maths, nat scis., geog, philol and educn.

MUSEUMS Zool and comp anat., geol and mineral, anat., pathol, biblical antiquities. The zool. collection is one of the best in the country. Attached labs. offer all facilities for res. work.

LABORATORIES Anat., bacteriol, biochem., bot, chem, engin., genetics, geol (Iveagh), geog., histol, pathol., pharmacol, phys (Iveagh), physiol., soc. med. (Moyné), zool.

HERBARIUM (rich in plants of N. America, India, S Africa and Australia). **BOTANIC GARDENS**, 4 acres.

Ample facilities for clin studies and many appts. for grads are available in numerous HOSPITALS, incl the well-known Rotunda.

PROFESSIONAL SCHOOLS Agric, comm, div, educn, engin, for, law, music, phys, soc studies, vet med. Registrars—agric.—A. A. Pakenham-Walsh, comm.—Prof. W. J. L. Ryan; educn—Rev Prof E. A. Crawford, engin—Prof W. Wright; law—F. E. Dowrick; mus—Prof G. H. P. Hewson, soc studies—Prof. F. B. Chubb, vet. med.—Prof. W. J. E. Jessop.

ADMISSION All applicns must be made to the sr. tutor. The matric. exam., held 3 times a yr, comprises: (1) English composition & lit; (2) one subj. from the group maths, addnl maths, phys, chem, hist, geog, biol.; (3) one subj from the group French, German, Greek, Hebrew,

Irish, Italian, Latin, Spanish; (4) any two other subjs from (2) and (3). All candidates must present themselves either in maths. or in Latin. Candidates for admission to the honour schs of classics, mental and moral sci, mod lit, anc & mod lit, Celtic langs, mod. hist & pol sci, legal sci, and to the professional schools of div and law, are required to qualify in Latin.

Exams exempting from matric incl: Leaving Cert of Dept of Educn, Ireland; General Cert of Educn awarded by approved examining body in England or Wales with at least 2 subjs. at advanced level (see p. 1424), matric exam of any Irish or UK univ and of any other univ recog by the bd of Trinity Coll. If such certs do not cover all the prescribed subjs of matric, the candidate must pass the Dublin matric exam. in the subj or subjs. in which he is deficient. Overseas students must satisfy the sr tutor that they have an adequate knowledge of Engl, both spoken and written. They may obtain exemption from one European lang other than Engl on presenting evidence of having passed a recog exam. in their own lang. Having qualified for matric, candidates must obtain admission from the sr tutor, for which purpose they must produce evidence of character and of academic suitability. Financial guarantees are required from overseas students. All candidates for admission to the schs of phys, nat sci and agric must, in addn to complying with the foregoing general requirements, be approved by the admission cttee of the sch concerned. Overseas candidates for admission to the honour sch of legal sci and to the professional sch of law must be approved by the legal studies admission cttee. All candidates who have been admitted by the sr tutor enter the coll by paying the first coll fee. The collegiate interests of all students on the coll books are under the guardianship of the tutors. Students are normally assigned to tutors by the sr tutor at entrance.

Candidates in med., vet. med and dent. must apply before Jan 31 of the yr in which entrance is sought.

ADMISSION TO ADVANCED STANDING Sp. regna. provide for the grant of credit for previous academic attainments at the univs. of Oxford and Cambridge, while students or grads. of other recog. univs. may be allowed credit *pro tanto* for 1 or 2 yrs of the Dublin arts course.

FIRST DEGREES. Every student must take the BA (4 yrs) before proceeding to any other degree, except in music. All students not in a professional sch. are required to attend arts lectures in every term, unless specially exempted (e.g. those earning their living by teaching). If exempted they are required to pass extra exams. Exemption from attendance is never granted to students taking scientific subjects for the BA.

The honrs BA—known as *moderatorship*—can be taken in 11 different groups, viz: maths, classics, mental & moral sci, nat sci.; mod lit.; anc. & mod. lit.; Celtic langs, Oriental

langs, mod. hist & pol sci, econ & pol sci, legal sci. The course for each lasts 4 yrs.

The 4-yr pass BA course in nat. sci. covers approx. the same ground as the 1st 3 yrs of the honour course in nat. sci. In the last 2 yrs. the student studies 3 subs. chosen from phys, chem, bot., zool, geol, geog.

Engl. composition is a compulsory subj. throughout the pass BA course in gen. studies, otherwise a wide freedom in choice of subjects is allowed. Candidates must present themselves in Engl. composition and 4 subs. at the pass BA exam. For comm, div, engin, law and med. students there is a sp. reduced arts course throughout.

The LLB course covers 2 yrs.; the MB BCh and BAO, 6 yrs.; B DentSc, 6 yrs.; BAI, 4 yrs. (optional 5th yr. in elect. and mech. engin.), AgrB or Agr(For)B, 4 yrs., of which 3rd and 4th are taken in Univ. Coll., Dublin (NUI), BComm, 3 yrs., MVB, 5 yrs., of which 2nd-5th are taken in the Vet. Coll. of Ireland. These courses are taken concurrently with the arts course. A course lasting less than 4 yrs. is taken concurrently with the last 3 or 2 yrs. of the arts course.

HIGHER DEGREES A BA of the univ. of 3 yrs.' standing may be admitted MA. There is no exam. for this, nor is a thesis required.

The MLitt is obtained by a thesis, and candidates must have at least 1 yr.'s standing as BA. They must also, except by sp. permission of the bd., be grads with 1st or 2nd class honours of Dub. or of an approved univ.

The BD is obtained by an exam. open to all grads in arts of 3 yrs.' standing, the DD is open to any BD, 8 yrs. after taking BA, and is awarded on a thesis or public theol. work.

For MusB, students must matric. in arts, and then pass an exercise or practical test and 2 exams. There are no formal courses of instruction.

The MSc and PhD involve postgrad. study and res. for 1 yr. and 2 yrs. respectively. Candidates for MSc must be sci. grads with 1st or 2nd class honours. Candidates for PhD must, except by sp. permission of the bd., be grads with 1st class honours.

A candidate for the ScD or LittD must have at least 3 yrs.' standing as BA, or have obtained MSc, MLitt or PhD, and submit important original work, for LLD must be of MA standing—a thesis or a public work is required; for MD must have taken the MB degree, be of MA standing; for MCh must be a BCh of 3 yrs.' standing, for MAO, a BAO of 2 yrs.' standing, a thesis or exam. is required for MD, an exam. for the MCh or MAO. A candidate for MDentSc must be a BDentSc of 3 yrs.' standing, and pass an exam., for MAI must have practised his profession for 3 yrs. after graduating as BAI and present a thesis, for AgrM must be an AgrB of 3 yrs.' standing (thesis required). A candidate for Agr(For)M must be an Agr(For)B of 3 yrs.' standing (thesis required); for MComm must be a BComm of

2 yrs.' standing (thesis required); for MVM must be an MVB of 3 yrs.' standing (thesis required).

The MusD is granted after an exercise and exam.

The degrees of LLD, MusD, ScD, LittD and all masters' degrees may be awarded both as honorary and 'earned' degrees.

DIPLOMAS Agric, 4 yrs., soc. studies, pub. admin., Engl. studies (primarily for grads of overseas univs.), Irish studies, 2 yrs., bibl. studies, 1 or 2 yrs., educn, mech. engin, 1 yr., gynæcol. & obstet, 6 mos., physiotherapy, 3 yrs., geog., religious knowledge (women), hist. of European painting, exam. only. *License* in engin. (first 2 yrs. of arts course and complete course in engin.) *License* in med., surg. and obstet. sci. *Testimonium* in div. (3 yrs.' course).

FEES Matric, £6, coll. fee, covering all arts and sci. lectures, £60 p.a., with addnl. lab. fees in sci. (£30 p.a.); BA exam. fee, £6, BA degree fee, £9. Capitation fee for clubs and socs, £7. Med. course total (incl. coll. and hosp. and degree fees), about £560, dental sci. total (incl. coll., hosp. and degree fees), about £710, engin. total (incl. coll. and degree fees), about £340, div. free for students in arts, £36 p.a. for others, comm. (incl. arts and degree fees), about £326.

Overseas students (i.e. from outside Ireland and Gr. Britain) pay a surcharge of 50 per cent. on all coll. and tuition and lab. fees.

APPOINTMENTS OFFICE For appts. officer, see 'Admin. and Other Staff', above. Tel. Dublin 72941.

EXCHANGE OF STUDENTS Exchanges of students are arranged with European countries. Visiting students give lectures, mainly on conversational French and German, and in return may attend any lectures free of charge and are given free bd. and lodging.

STUDENTS FROM OTHER UNIVERSITIES Students from other univs., if recommended by their univ., may work for an academic yr. in Trinity Coll.; fee, £66. Students may also be admitted for 1 term, fees vary with the courses followed. Applicants to sr. tutor.

ACADEMIC YEAR Oct. to early July. 3 terms of about 10 wks. each.

LANGUAGE OF INSTRUCTION English.

INTERNATIONAL SUMMER SCHOOL Held in July, usually each yr. Applicants to registrar of the summer sch.

RESIDENCE The coll. has accomm. for about 350 men students. Rent, £15 to £30 p.a. for single sets and proportionately for double sets of rooms, dinner in hall, £1.4s-6d. a week. Trinity Hall (Warden: Anne E. R. Brambell, MA) accomm. 92 women; bd. and residence, about £50 per term of 10 wks. There is also a hostel for div. students of the Church of Ireland.

PUBLICATIONS *Calendar* (Oct.), 15s., incl. information about courses, etc.; annual supplement, 2s., results of exams., degrees conferred,

etc., sp supplement (occasional), lists of past honours, benefactors, etc. Booklets on particular courses, etc., are available, free of charge, on application to the sr. tutor *Exam Papers* of the several honour schs., of the several professional schs.; of entrance exams. and prizes, and of pass arts, are publ. in pamphlet form at 2s per set. *Hermathena* (twice yrly), original papers in arts subsj., price 10s *Trinity*, an annual record. *TCD*, *Trinity News* (students'), weekly in term. Histories, etc. *A History of Trinity Coll*,

Dublin, Vol I, 1591-1892, by Constantia Maxwell; Vol II, 1892-1945, by Kenneth C. Bailey (Dublin Univ Press, 1946-47) *Trinity Coll., Dublin*, by W. Macneile Dixon (1902) *Alumni Dublinenses*, 1593-1860 (2nd ed, 1935).

UNIVERSITY PRESS The univ press, housed within the walls of the coll. in a bldg. erected for the purpose in 1734, is primarily the coll printing-house, but it has also publ. many books, beginning with the *Prognostics* of Hippocrates (1736).

THE YEAR 1960

PRINCIPAL BENEFACTIONS Kellogg Foundation, \$112,500 for Kells Ingram farm, Wellcome Trust, £25,000 for res. in surg.; estate of Mrs Norma P. Graham, \$50,000, Duvlerton Trust, £10,000 for library extension fund (Total value of all benefactions received £203,233).

NEW DEPARTMENTS AND CHAIRS. Dept. and chair of paediatrics; chair of pol sci.

RESIGNATIONS Rev R. K. Maguire (dean of residence), apptd. dean of Montreal

DEATHS Rev M. L. Ferrar, warden of div. hostel, J. B. Gatenby, prof. of cytol; T. G. Moorhead, hon. fellow, formerly reg. prof. of physics

HONORARY DEGREES LLD—H. D. Crotty, V. Gollancz, author, J. Leydon; C. O. Stanley. LittD—Dr Enid Starkie ScD—E. de Valéra, pres. of Ireland; Dr H. Godwin, prof. of bot., Camb; H. Broadbent, chairman, Bolton Fund, Sir Wilfred Fish, chairman, General Dental Council; J. S. Landa, A. Lundstrom MA—Miss C. Keogh

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1784	236
Women	659	69
Total	2443	305

Distribution by Faculties Agric., 35, arts (incl nat. sci), 1564, comm, 55, dent., 27, div., 45, engin., 119, law, 50, med., 453, soc. studies, 47, vet med, 48 Total: 2443

Included in the figures above are.—

Postgraduate students, 112

New admissions, 661

Students from other countries, 1151 (Countries from which largest numbers came Gt Britain, 741; Nigeria, 63, U.S.A., 43, Malaya, 35)

DEGREES AWARDED (1959-60) Agric. AgrB, 3; Agr(Forest)B, 2. Arts: BA, 188, BA(hons.), 89, MA, 162; MLitt, 15 Comm: BComm, 24 Dent. BDentSc, 3 Div: BD, 3. Engin BAI, 20, BAI(hons), 8 Law: LLB, 10 Med: MB, 57, MD, 7, MCh, 1, MAO, 1. Music: MusB, 1; MusD, 1 Sci: MSc, 5. Vet med: MVB, 5 PhD (all facs) 10

DIPLOMAS, ETC. AWARDED (1959-60). HDipEd, 29, DivTest, 9, DGO, 12; DPA, 19, DipSocStud, 15; DipIrishStud, 2; DipEngStud, 11, Dip Geog, 1.

NATIONAL UNIVERSITY OF IRELAND

Founded 1908

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Cables and Telegrams *Natuniv, Dublin*

Telephone (Registrar) : Dublin 67246-7

CHANCELLOR—É. DE VALÉRA, BA BSc PhD LLD

VICE-CHANCELLOR (for biennium ending Dec. 31, 1963)—M. TIERNEY, MA DLitt, President, University College, Dublin

PRO-VICE-CHANCELLORS (for biennium ending Dec. 31, 1963)—THE PRESIDENTS, UNIVERSITY COLLEGES OF CORK AND GALWAY AND ST. PATRICK'S COLLEGE, MAYNOOTH

REGISTRAR—S. WILMOT, BA BComm LLD

ADMINISTRATIVE AND OTHER STAFF

Chief Clerk J. P. Kane, BComm Accountant
J. Bourke, MComm. Other Statutory Clerks .
P. J. Costello, MA BComm HDipEd DipPub
Adm., T. I. Kelly, BComm, M. J. Tracy, BA
BComm.

CONVOCATION Chairman D. Ó Modhúin,
BA Clerk T. A. O'Rourke, BA BComm
HDipEd.

CONSTITUENT COLLEGES

UNIVERSITY COLLEGE, DUBLIN: *see* p. 1313.

UNIVERSITY COLLEGE, CORK: *see* p. 1318

UNIVERSITY COLLEGE, GALWAY: *see* p. 1323.

RECOGNIZED COLLEGE

ST. PATRICK'S COLLEGE, MAYNOOTH (tel : Maynooth 261) President—Rt Rev Mgr. G. Mitchell, BA DD. Founded 1795 by the Irish parliament 'for the educn. only of persons professing the Roman Catholic religion'. Since 1817 it has been devoted exclusively to the educn. of the clergy. In 1845 the bd of trustees were incorporated by statute, and in 1899 were invested by the Holy See with authority to confer degrees in philos. (BPh, LPh, DPh), theol. (BD, STL, DD), canon law (BCL, LCL, DCL). In 1910, under the provisions of the Irish Universities Act, 1908, recognition was granted to the coll. as a recog coll of the National Univ. of Ireland in the facs. of arts (incl. philos.), sci and Celtic studies.

Recognized teachers in approved degree courses. CHEM.—Rev M. T. Casey, MSc PhD. CLASSICS—Rev T. Finan, MA; Rev W. Meany, MA

DD, Rev. G. Watson, MA STL EDUCN.—Rev P. Birch, MA PhD HDipEd. ENGL.—Rev J. J. McMackin, MA, Rev P. Connolly, MA OXON. FRENCH—Rev B. Devlin, MA DD. GERMAN—... HIST., MOD. (INCL. IRISH HIST.)—Rev T. Foe, LicHistSc Louvain, MA. IRISH—Rev D. P. O'Flynn, MA; Rev P. O'Sullivan, MA; Rev P. O'Fiannachta, MA. MATHS & MATHL. PHYS.—Rev J. McConnell, MA DSc; Rev J. McMahon, MSc PhD. MUSIC—Rev C. H. O'Callaghan, LMus Rom, BA. PHILOS., MENTAL AND MORAL—Rev J. D. Bastable, MA PhD, Rev T. Clowley, DPh Maynooth, MA, Rev D. O'Donoghue, DPh Louvain, MA, Rev J. Newman, DPh Louvain, MA; Rev C. Ó hUallacháin, BA PhD PHYS., EXPER.—Rev T. P. G. McGreevy, MSc WELSH—Rev P. Ó Fiannachta, MA

OTHER TEACHING STAFF

For teaching staffs of Constituent Colleges, *see* pp. 1313-1324.

Other Teaching Staff. Profs. of Catholic Theo-

logy—Rev P. J. Hamell, DD, Rev P. Cremen, DD JUD Pontif. Athen Lateran.; Rev J. O'Flynn, DCL.

GENERAL INFORMATION

Queen's Univ in Ireland, founded in 1850 to link the Queen's Colls of Belfast, Cork and Galway, was replaced in 1880 by a purely examining body, the Royal Univ of Ireland. In 1908 the National Univ of Ireland was established, with Univ Coll, Dublin, and the colls hitherto known as Queen's at Cork and Galway as constituent colls. The Queen's Univ of Belfast (in effect Queen's Coll, Belfast, raised to univ. rank) was established in the same yr, and the Royal Univ was dissolved in 1909.

REPRESENTATIVES IN SEANAD ÉIREANN D Ó Conalláin, BAHDipEd, Prof G O'Brien, DLitt, Prof P M Quinlan, MS PhD Cal Tech, BE MSc

UNIVERSITY FACILITIES AND DEANS (Oct 1, 1960–Sept 30, 1963) Arts, Prof J Murphy, Celtic studies, Prof T S Ó Máille, comm, Prof L Ó Buachalla, dairy sci (U.C. Cork only), Prof C Boyle, *engin & archit*, Prof D Ó Cárthaigh, *gen agric* (U.C. Dublin only), Prof J Carroll, *law*, Prof P Gallagher, *med* (incl dent), Prof S Sheehy, *philos*, Prof J D Horgan, *sci*, Prof C Ó Brocháin, *vet med*, (U.C. Dublin only), Prof P A McGeady

Classes are held in all facs (with the 3 exceptions indicated above), at each of the constituent colls, and in arts, philos and sociol, Celtic studies and sci at Maynooth.

ADMISSION The normal method of entry is by the matric exam of the univ. Students must pass in 5 subjs grouped as follows (1) Irish (students born outside the 32 counties, or with home residence of parents outside Ireland for at least 3 yrs prior to matric, may select another subj of the matric programme in lieu of Irish), (2) English, (3) two of the following: maths, Latin, Greek, a modern continental lang, (4) a 5th subject of the matric programme. Latin or Greek is necessary for the facs of arts, med, law, vet med; a mod continental lang. will suffice for the remaining facs. Maths is not necessary for the facs of arts and law, provided 2 langs are selected from the group Latin, Greek, a mod. continental lang. Clear passes in subjs in the Leaving Cert exam of the Irish Dept. of Educn or in the Sr. Grammar Cert of the N Ireland Dept. of Educn are accepted as equivalent to passes in corresp subjs at matric exam. Other outside exams are accepted for admission only on sp. applicn. to the pres of a constituent coll., provided the candidate has passed in the requisite 5 subjs at equivalent standard. In the case of GCE exam 2 of 5 subjs should have been taken at advanced level.

Students are advised to apply before April 1, especially for entry to fac of med

FIRST DEGREES. 3 yrs.—BA (pass, hons), BSc gen, BComm, BCL, BMus (4 yrs at U.C. Dublin), BSocSc, 4 yrs.—BSc hons (new regns.), BAgrSc, BSedDairymg, BE, 5 yrs.—BArch, BDS, MVB; 6 yrs.—MB BCh BAO

Classes are held in all facs, at each of the con-

stituent colls (except that classes in dairy sci are held only at U.C. Cork, in gen agric and in vet med only at U.C. Dublin) and in arts, philos and sociol, Celtic studies and sci. at St Patrick's Coll, Maynooth

The hons courses for BA, BSc are separate from the pass or general degree course. Normally 3 subjs for BA pass, BSc gen. Normally 2 principal subjs (with certain grouping restrictions) for BA hons, normally 1 major and 1 minor subj (with certain grouping restrictions) for BSc hons. For hons courses available, see under constituent colls, below

HIGHER DEGREES, conferred on grads. after approved postgrad. course of study under prescribed conditions in the univ or in a constituent or recog coll. LLB—3 terms after BCL, MA, MSc, MAgrSc, MArch, MComm, MSedDairymg, MEngSc, MPsychSc, MEconSc, MD, MCh, MAO, MDS, MVM—at least 3 terms, grads. of other univs may be granted *ad eundem* degree and allowed to proceed to certain master's degrees, e.g. MA, MSc, MEconSc, PhD—9 terms (reducible to 6), open to grads of other univs and other students of advanced standing, MD, DMus, DEconSc, DLitt, DLittCelt, LLD, DSc. The doctorate degrees (except PhD, MD, DMus) are obtainable only on public work.

Higher Degrees (usually doctorates) may be conferred on distinguished persons as HONORARY DEGREES.

DIPLOMAS. 1 yr.—DipEd, HDipEd (postgrad), dipl for teachers of deaf, DPH (for med grads), dipl in child care (1 yr after BSocSc or Dip SocSc), 2 yrs.—DipComm, DipDairySc, dipl in Irish studies, dipl in psychol, DipChemTech (U.C. Cork), DipLibTrg (1 yr for grads), DipSocSc (1 yr for grads), DipPubAdm (1 yr. for comm grads), DPM (2 yrs' experience in psychiatric hosp, for med grads.), 3 yrs.—music teaching, physiotherapy, also DCH (for med grads with prescribed children's hosp. experience)

CERTIFICATES 1 yr.—CertComm, jr teaching qualif (music), sr teaching qualif (music), 2 yrs., or 1 yr. after sr. teaching qualif. (music)—cert in organ music.

FEES. Matric, £5 to £10. Combined exam. and degree, £13 to £29. Dipls, £5 to £8. Med. dipls, £5 to £11. For tuition fees, see separate colls.

ACADEMIC YEAR Oct to June. 3 terms of 10, 10 and 7 wks. See also under constituent colls.

APPOINTMENTS BUREAUX Univ Coll, Dublin, Univ Coll, Cork, Univ Coll, Galway

GRADUATE ASSOCIATION NUI Club, University House, 13a Lower Grosvenor Place, London, S W 1

PUBLICATIONS. Calendar (July), 5s (plus postage), Graduate and Sessional Lists (triennially, 10s. plus postage).

THE YEAR 1960

HONORARY DEGREES *LLD*—J. F. Brosnan, chancellor, bd of regents, N.Y.; Sir Charles O Harvey, jr. managing dir, Arthur Guinness Ltd., O H Moen, pres, International Dent Fed; F J. Teago, former prof of electr engin., Liv, and Univ. Coll, Cork, F C. Wilkinson, distinguished dent. surgeon, H T. Dean, secretary, Council on Dental Research, American Dental Association, noted authority on fluoridation *DMus*—Harriet P A Cohen, celebrated pianist *DLittCelt*—W G. O Lochlainn, Irish printer and Irish folk music authority, I C Peate, noted Welsh scholar; *MD*—L. H. Garland, noted radiologist in U.S.A.

DEGREES AWARDED (1959-60) *Agric* BAgSc, 75; MAgSc, 5 *Archit* BArch, 13 *Arts* BA, 555, MA, 44, BMus, 8, DMus, 1,

BSocSc, 11 *Comm*: BComm, 173; MEconSc, 5. *Dairy sci*: BScDairying, 5; MScDairying, 2. *Dent.* BDS, 42 *Engn.* BE, 122, ME, 1. *Law*. BCL, 26; LLB, 12 *Med* MB BCh BAO, 143; MD, 12, MCh, 6; MAO, 1. *Sci*: BSc, 191, MSc, 14, DSc, 1 *Vet med.*: MVB, 306 PhD (all facs.). 10. *Total number of first degrees awarded*, 1394.

DIPLOMAS AWARDED (1959-60) DCH, 21, DipComm, 5; DipDairySc, 24; HDipEd, 322, DipLabrTrg, 4, DipMusTeaching, 7; DPM, 3, DPH, 10, DipPubAdm, 25; DipSocSc, 9; DipChemTech, 2, DipmPhysiotherapy, 24; DipTeachersofDeaf, 7.

CERTIFICATES AWARDED (1959-60) Jr music qualif, 8, sr music qualif, 10

[Information compiled as at 2/9/61]

UNIVERSITY COLLEGE, DUBLIN

Founded 1851 as Catholic Univ of Ireland, chartered as constituent coll of National Univ. of Ireland, 1908

Postal Address: Earlsfort Terrace, Dublin 2, Republic of Ireland

Telephone: 52116

PRESIDENT—M TIERNEY, MA DLitt

REGISTRAR—Professor J. J. HOGAN, MA BLitt Oxon.

SECRETARY AND BURSAR—J. P. MacHALE, BA MComm

LIBRARIAN—ELLEN POWER, MA, FLA

TEACHING STAFF

[† = Part-Time]

Accountancy		Architecture	
O'Brien, G. W., MA BComm	† Lectr	FitzGerald, D. P. J. M, BArch, FRIAI	Prof
		McDermott, M, BArch	Lectr.
Agriculture , see below		Botany	
Anatomy		Clinch, Phyllis E. M., PhD DSc	Prof.
Keenan, E., MD BCh BAO	Prof	Chemistry	
Coakley, J. B., MB BCh BAO MSc	Coll. Lectr.	Wheeler, T. S., DSc PhD	Prof
Archaeology, Celtic		Philbin, Mrs Eva M, PhD DSc	Prof.
De Valera, R., MA PhD	Prof.	Riley, F. T., BA MSc	(Org. C.) Lectr.
2 U			

Ó Brian, C, MSc
Gowan, J. E., PhD

Coll. Lectr.
Coll. Lectr.

Geology

Brindley, J. C., MSc, FGS

Prof.

Classics

Tierney, J. J., MA
O'Meara, J. J., MA DPhil Oxon.
Nicol, D. M., MA PhD Camb

Prof.
Prof.
Coll. Lectr.

German

Cunningham, Kathleen, MA PhD Bonn

Prof

History, Early Irish (including Mediaeval)

Ryan, Rev. J., MA DLitt

Prof.

Dentistry

Dunkin, F. J., MB BCH BDS (D Surg.) Prof.
Gallivan, D., BDS (D Mech) Actg. Prof.

History, Mediaeval

Gwynn, Rev. A., MA BLitt Oxon.

Prof

Eastern Languages

Ryan, Rev. D., MA STL Pontif Athen Lateran,
LSS Rome

†Prof.

History, Modern

Williams, T. D., MA
Kearney, H. F., MA Camb, PhD
Morrall, J. B., BLitt Oxon., PhD
Nowlan, K. B., PhD Camb., MA

Prof.
Coll. Lectr.
Coll. Lectr.
Coll. Lectr.

Economics, see Pol. Econ**Education**

Ó Catháin, Rev. S., MA PhD

Lectr.

History, Modern Irish

Edwards, R. D., MA DLitt

Prof

*** Engineering, Chemical**

O'Donnell, J. P., ME BSc
Walsh, J. J., ME

Prof.
Coll. Lectr.

Irish, Early and Mediaeval

Shaw, Rev. F., MA

Prof

Engineering, Civil

Hogan, M. A., DIC, BE DSc PhD
Stephens, L. F., BSc ME
Garland, T. A., BSc

Prof.
Coll. Lectr.
Coll. Lectr.

Irish Language and Literature, Modern

de Bhaldraithe, T., MA PhD DLitt Prof.
DeLaig, J. H., DLitt Wales, LittD Dub.,
MA (Irish Folk-lore) Prof.

Engineering, Electrical

Morrissey, J. J., ME MA Prof.
D'Alton, L. B., ME Lectr.
Byrne, J. V., BE Coll. Lectr.
McGenrus, E. A., BE BSc Coll. Lectr.
Ring, G. (Electro-Technol) Coll. Lectr.

Ó Cuiv, B., MA DLitt (Classical Irish) Prof.
Walsh, R. B., MA PhD Coll. Lectr.

Italian and Spanish Languages and Literatures

McBride, P., DrenL Madrid, MA

Prof

Engineering, Mechanical

Leahy, P., ME PhD Prof.
Drechsler, F. S., ME Coll. Lectr.
Timoney, S., ME Coll. Lectr.
McCraith, J. R., BE Coll. Lectr.
Hanrahan, E. T., PhD (Soil Mechanics) Coll. Lectr.
McCabe, V. J. Coll. Lectr.

Law

Henchy, J. A., MA LLB PhD
(Roman L., Jurisprud., Legal Hist.)
McGilligan, P., MA DEconSc
(Const. L., Internat. and Criminal
L. & Procedure) †Actg. Prof.

Mathematics

Gormley, P. G., MA PhD Prof.
Timoney, J. R., MA Lectr.
Tunney, Mrs. Sheila C., MA PhD Lectr.
Franklin, D., MSc (Statistical M.) Lectr.
O'Brien, S., MSc Coll. Lectr.
Ingram, Rev. R., PhD Coll. Lectr.
Kennedy, M., MSc PhD Coll. Lectr.

Medicine and Surgery, see Medicine, below**English Literature**

Hogan, J. J., MA BLitt Oxon. Prof.
McHugh, R. J., MA PhD Lectr.
Reynolds, Lorna T., MA PhD Coll. Lectr.
Donoghue, D., MA PhD Coll. Lectr.

English, Old and Middle

Dunning, Rev. T. P., MA PhD

Prof.

French and Romance Philology

Roche, L. P., Dèal Posters, MA
Cognon, E. P., MA

Prof.
Lectr.

Microbiology, Industrial

Kuster, E., DRerNat Gött Prof

Geography

Jones-Hughes, T., MA

Prof

Music

Hughes, A., DMus

Prof

Palaeography and Late Latin		Plant Breeding	
Bieler, L., DPhil <i>Vienna</i>	Prof.	Carroll, P. T., BAgSc MSc	Coll. Lectr.
Philosophy		Plant Pathology	
Horgan, Rev. J. D., MA DD PhD		Loughnane, J. B., DSc BAgSc	Lectr.
	(Metaphysics) Prof.		
O'Doherty, Rev. E. F., MA BD		Soil Science	
	PhD <i>Camb.</i> (Logic & Psychol.) Prof.	Gallagher, P. H., DSc	Lectr.
Martin, Rev. C. J., MA BD DPhil <i>Oxon</i>		Brickley, W. D., MAgrSc	Coll. Lectr.
	(Ethics & Pol.) Prof.		
Physics, Experimental		MEDICINE	
Nevin, T. E., DSc	Prof	(for subs. of first 2 yrs —Anat., etc., see above)	
Nolan, P. J., DSc PhD	(Geophys.) Prof	Biochemistry and Pharmacology	
Carroll, P. K., PhD	(on leave) Coll. Lectr.	Conway, E. J., DSc MD BCh BAO, FRSc	Prof
Porter, N. A., PhD	Coll. Lectr.	Hingerty, D. J., MSc PhD	Coll. Lectr.
		Harrington, M. G., MSc PhD	Coll. Lectr.
Physics, Mathematical		Forensic Medicine	
Keating, G., MSc	Prof	Hickey, M. D., MD MSc, FRCPI	Prof.
Physiology and Histology		History of Medicine	
McCarthy, E. F., MSc MD BCh BAO	Prof	Doolin, W., MB BCh BAO, FRCS	Hon. Prof.
Daly, S. D., MB BSc	Coll. Lectr.	Medicine	
Political Economy and National Economics		O'Donovan, D. K., PhD <i>McG.</i> , MD MSc	Sr. Prof
Meenan, J., MA	Prof	Counihan, T. B., MD, MRCP	Prof
O'Donovan, J., MA BLitt DEconSc	Lectr		
Lynch, P., MA	Lectr	Microbiology as applied to Medicine	
Spanish, see Italian and Spanish Langs. and Lits.		Meenan, P. N., MD DCP	Prof.
Welsh		Midwifery and Gynaecology	
Evans, D. S., MA BLitt <i>Oxon.</i>	Prof	De Valera, E., MD MAO, FRCPI	†Prof
Zoology		Ophthalmology	
Humphries, Carmel, DSc PhD	Prof	Lavery, F. J., MD MCh, DOMS	†Prof.
AGRICULTURE			
Agricultural Chemistry		Oto-Rhino-Laryngology	
O'Sullivan, G. F., MSc	Lectr	O'Doherty, E., MB MCh BAO	†Prof.
Crowley, D., MSc	Coll. Lectr.	Pædiatrics	
Agricultural Engineering		Saunders, C. P., BSc MB BCh BAO	†Prof.
O'Callaghan, J. R., BE MSc	Coll. Lectr.	Pathology	
Agricultural Zoology		Harman, J. W., MD MSc	Prof.
Carroll, J., DSc BAgSc	Prof	Pharmacology	
McMahon, E., BAgSc MSc	Lectr	Cannon, P. J., MB BCh BAO MSc	Prof.
Farm Management		Psychiatry	
Ruane, J. B., MAgrSc PhD	Prof	Dunne, J., MD DPM	Prof.
Forestry		Radiology	
Clear, T., BAgSc	Prof.	Geraghty, J. A., MD	†Prof.
Horticulture		Social and Preventive Medicine	
Clarke, E., BAgSc PhD	Prof	Murphy, T., MB BCh BAO BSc DPH	Prof.
		Gallagher, J., MD DPH DCH	Coll. Lectr.

Surgery		McErlean, B. A., MVM	Lectr.
Fitzgerald, P., MD MCh MSc	St. Prof	Hannan, J., MS MVB	Lectr.
O'Malley, E., MCh, FRCSI	Prof		
Therapeutics		Veterinary Pathology and Bacteriology	
FitzGerald, O., MD MSc	Prof.	Mullaney, P. E., MVM	Prof
		Whitty, B. T., MSc	Lectr
		Hirsch, E. A.	Lectr
		Farrelly, B. T., MSc DVetMed	Lectr.
VETERINARY MEDICINE			
Veterinary Anatomy		Veterinary Physiology and Biochemistry	
Campbell, J. J., PhD MSc	Prof	McAleer, W. B., PhD DVSM	Prof.
Collery, L., PhD	Lectr	Glazier, D. B., MVB MS Corn.	Lectr.
Veterinary Hygiene and Animal Husbandry		Veterinary Surgery and Obstetrics	
O'Connor, J.	Prof.	McGeady, P. A., MVetSc	Prof
O'Donovan, S., MVB	Lectr.	Kealy, J. K., MVB	Lectr
		Hanly, S., MSc	Lectr.
Veterinary Medicine, Pharmacology and Food Hygiene			
Kelly, W. R., MVM	Prof.	Staff of Assts. and Demrs. in all Depts.	

ADMINISTRATIVE AND OTHER STAFF

Deans of Residence: Rev P Tuohy, BA; Rev D O'Neill, BA, Rev J. Dunn, BA, Rev A Boland, BA. Supt. of Women Students: Norah Greene, BSc HDipEd Registrar for Medical School: Eileen McGilligan, BSc. Warden of Newman House: W Leen Director, Students' Health Bureau: M. Moriarty, MSc MD Officers of Residence: Rev. D. P Kennedy, University Hall; Rev Dom P Tierney, Balmagowan House, Rev. Brother Gregory, De

La Salle Hall, D Cummings, MB BCh BAO, Nullamore Univ. Residence, Mrs Mary Murphy, BA HDipEd; Mother Mary of Lourdes, Loreto Hall, Mother Mary Imelda Brophy, St. Mary's Dominican Hall; Nora Burke, MA, Directress, Northbrook Residence, Rev. Canon J Armstrong, Rev G Ferguson, BA, Rev S. G. L. Young, BA

Sec., Appts. Bureau: B. Farrell, MA.

GENERAL INFORMATION

The coll. had its origin in the Catholic Univ. of Ireland, founded in 1851. From 1851 to 1859 its rector was Dr John Henry Newman. In 1854 its facs of theol., philos., letters and sci. began their work and in 1855 the fac. of med was formally opened in Cecilia St., where it continued to operate until 1932. The foundation of the Royal Univ in 1879 led to a change of title (1883) by which what had originally been St. Patrick's House in the Catholic Univ. became the seat of Univ Coll., Dublin. From 1883 until the passing of the Universities Act, 1908, the coll was administered by the Jesuit Fathers. Under that act and by royal charter of Dec. 2, 1908, it was re-established as a constituent coll. of the National Univ. of Ireland.

By the University Education (Agriculture and Dairy Science) Act, 1926, the Royal Coll. of Sci and the Albert Agric. Coll. were transferred to Univ Coll., Dublin, which was empowered to continue the functions formerly fulfilled by these instns

HOSPITALS 2 affiliated (gen med & surg.), 8 recog. for clin. instructn., 2 fever, 2 children's;

3 midwifery, 1 ophthalmol & oto-rhino-laryngol.; 1 mental diseases.

ADMISSION Students not born in Ireland must apply to the pres of the coll for admission and (unless they have passed the matric exam. of the N U I or the Leaving Cert of the Irish Dept. of Educn. or the Sr. Cert. of the N Ireland Dept. of Educn) for exemption from the matric. exam. Exemption will be granted only on production of evidence that candidates have passed an equivalent exam in the requisite 5 subjects

FIRST DEGREES (of N.U.I.). 3 yrs—BA gen (3 subjs.), BA hons. (normally 2 subjs.), BSocSc pass, BComm, BCL, BSc gen (3 subjs.), 4 yrs—BMed, BSc hons (1 subj with 1 minor subj [for 3rd & 4th yrs]), BE (agric., chem., civil, electr., mech.), BAgSc; 5 yrs.—BDS, BArch, MVB, 6 yrs.—MB BCh BAO

HIGHER DEGREES (of N.U.I.) 1 yr. min.—MA, MEconSc, LLB, MSc, MagrSc, MVM, MEngSc, 3 yrs min.—PhD, MComm, MD, MCh, MAO, MDS, ME, MArch, MPychSc,

5 yrs min.—DLitt, DLittCelt, DMus, DEconSc, LL.D, DSc

DIPLOMAS (of N.U.I.) 2 yrs., or 1 yr. postgrad.—DipSocSc, DipLibTrg, DipPubAdm, 1 yr.—educn., 2 yrs.—nurse tutors; 3 yrs.—physiotherapy. *Postgrad.* 1 yr.—HDipEd, teachers of the deaf, child care, DPH, DPM, DCH, 2 yrs.—psychol

FACULTIES AND DEANS (1961-62). *Arts*, Prof J. J. Tierney (Greek); *Celtic studies*, Rev. Prof J. Ryan (early Irish hist.); *comm.*, . . ., *engin & archit.*, Prof M. A. Hogan (civil engin); *gen agric.*, Prof J. Carroll (agric. zool); *law*, . . ., *med.*, Prof E. Keenan (anat); *philos.*, Rev. Prof. J. D. Horgan (metaphys); *sci.*, Prof. T. S. Wheeler (chem.); *vet.*, Prof P. A. McGeady (vet surg).

LIBRARIES. 194,433 vols.

LABORATORIES (in main coll bldgs. at Earlsfort Terrace, Upper Merrion St. and Glasnevin, and res labs at Ardmore, Merville, Belgrove and Woodview on Stillorgan Rd.). *Agric sci*, *engin.*, *med.*, *sci*

FEES (50 per cent. extra for overseas students, incl U.K. students) for tuition, incl. coll. fees, annual, for primary degree courses *arts*, *comm.*,

law, *soc. sci.*—£50; *sci*, *engin*, *archit.*, *agric.*—£70, *med.* (incl. hosp), whole period—£505 approx, *dent* (incl. hosp), whole period—£546, *vet. med.*, whole period—£360

ACADEMIC YEAR Term dates, 1961-62 (except for facs. of med & vet. med.): Michaelmas, Oct. 10-Dec 15, Hilary, Jan. 9-March 30; Trinity, April 25-May 25 For med, Trinity term is April 25-June 15

LANGUAGE OF INSTRUCTION. English.

RESIDENCE Hostels—Men. University Hall, Hatch St. (accommodates for 82 students), Balmagowan House, Palmerston Pk. (40), De La Salle Hall, Ely Pl (30), Nullamore University Residence, Milltown (45) Women Loreto Hall, 77 St Stephen's Green (70), St. Mary's Dominican Hall, 49 St Stephen's Green (80), Northbrook Residence, 27 Northbrook Rd. (30) Students are subject to supervision by officers of residence. (See also 'Admin. and Other Staff' above.)

APPOINTMENTS BUREAU

STUDENTS' HEALTH BUREAU The bureau is concerned with all aspects of the health of students, and the assistance of the bureau is freely available during office hours to any student who is anxious about his or her health.

PUBLICATION. *Calendar*, Nov., 10s

THE YEAR 1960

NEW DEPARTMENTS AND CHAIRS *Chairs*: *geog.*, *paleog.* & late Latin, *vet. anat.*; *vet. med.*, *pharmacol.* & food hyg., *vet. surg.*, *obstet.* & *infertility*; *vet. pathol.*, *bacteriol.* & *parasitol.*, *vet. physiol.* & *biochem.*, *vet. hyg.* & *animal husbandry*, *classical Irish lang.* & *lit.*; *pædiatrics* (pt-time); *oto-rhino-laryngol.* (pt-time), *ophthalmol.* (pt-time), *radiol.* (pt-time).

RETIREMENTS Prof J. F. Cunningham (midwifery & gynaecol.), Prof. M. J. Gorman (agric bot.); Prof. M. Hayes (mod. Irish lang. & lit.), Dr R. Keane (chem.)

DEATHS Dr R. G. Allen (former lectr in engin), Prof H. L. Barniville (former prof of surg), Prof J. J. Dowling (former prof of tech phys), Prof Mary Macken (former prof. of German), Rt Rev Mons. J. Shine (former prof of logic & psychol)

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time*
Men	3687	282
Women	1257	785
Total	4944	367

* 'Part-Time' applies to students taking dipl and cert courses, occas students and students attending law courses The term does not apply to students attending evg. degree courses (who are included among full-time students)

Distribution by Faculties *Agric.*, 327, *arts*, 1911; *comm.*, 659; *engin & archit.*, 495, *law*, 119, *med.*, 925, *sci.*, 638, *vet. med.*, 237. Total. 5311

Included in the figures above are—

Postgraduate students, 369

New admissions, 1601.

Students from other countries, 384. (Countries from which largest numbers came: United Kingdom, 60, U.S.A., 53; Malaysia, 44; Trinidad, 42; Nigeria, 38)

DEGREES AWARDED (by N.U.I.) (1959-60)

Agric. B.AgrSc, 78, M.AgrSc, 5 *Archit.* BArch, 13 *Arts*: BA, 316, MA, 29, B.SocSc, 13 *Comm.* BComm, 99, MEconSc, 5 *Engin.* BE, 84, MB, 2 *Law* BCL, 18; LLB, 3 *Med.* MB BCh BAO, 83, BDS, 32; MD, 6; MCh, 3. *Sci.* BSc, 65, MSc, 8. *Vet. med.* MVB, 30. PhD (all facs). 10 Total number of first degrees awarded, 831.

DIPLOMAS AWARDED (by N.U.I.) (1959-60). HDipEd, 172, DipLibTrg, 40; DipMusTeaching, 9, DipSocSc, 13; DipPubAdm, 26, DPH, 11, DCH, 21, DPM, 3, DipPhysiotherapy, 25, DipPsych, 8; DipTeachersoftheDeaf, 7.

[Information compiled as at November 1961]

UNIVERSITY COLLEGE, CORK

Founded 1845 as Queen's College, Cork; chartered as constituent coll. of
National Univ. of Ireland, 1908

Postal Address: Cork, Republic of Ireland

Cables and Telegrams: University College, Cork, Ireland

Telephones: (Registrar), Cork 26275, (Secretary), Cork 20711; (all Depts.), Cork 21371

PRESIDENT—H. ST. J. ATKINS, MSc Hon DSc

REGISTRAR—Professor T. Ó CIARDHA, PhD Lond., MA

SECRETARY AND BURSAR—J. HURLEY, MA BComm

LIBRARIAN—D. O'KEEFE, MA

TEACHING STAFF

[†=Part-Time]

Accounting and Business Administration		Teegan, J. P., PhD Camb, MSc	
Clifford, T. J., MComm	†Lectr.		(Phys. C.) Lectr.
Daly, H. J., BComm, FSAA	†Asst.		Lectr.
Agriculture, see Dairy Science		O'Donovan, D. G., MSc PhD	Asst.
Anatomy, see also Dent. Anat		Concrete Technology, see Engin., Civil	
MacConaill, M. A., MB BCh BAO DSc Belf.		Dairy Science, see below	
	Prof.	Dentistry, see below	
Fitzgerald, M. J. T., MB BCh BAO PhD	Lectr.	Economics	
Hamilton, W. D., BSc MD MCh BAO	†Asst.	Busteed, J., MComm	Prof
Law, Mrs. Mary E., MSc	(Histol.) Asst.	Larkin, Rev. W. P., PhD Lond., MA	
Gurr, E., FRIC	†Res. Asst.	DEconSc	(E. Theory) †Prof
Burke, T., BA MB MCh BAO, FRCS	†Demr.	O'Mahony, D. P., MA PhD BL	Lectr.
Kearney, K. V. J., MB MCh, BAO, FRCS	†Demr.	Education	
Ancient Classics		Duggan, Lucy, MA PhD HDipEd	Prof
Fogarty, J. P., MA PhD HDipEd	Prof.	O'Callaghan, Nora M., MA HDipEd	Asst
Richmond, J. A., BA PhD Lond	Lectr.		†Lectr.
Archaeology		Engineering, Civil	
O'Kelly, M. J., MA	Prof	Dooge, J. C. L., MSc Iowa, BSc ME	Prof
Biochemistry		Coffey, P., ME	Assoc. Prof.
Brady, T. G., PhD Munch, MSc	Prof.		(Concrete Technol.) †Prof
Tully, E. R., MSc PhD	Asst.	Dillon, E. C., ME PhD	Lectr.
Botany		O'Halloran, J. F., MSc Belf., BE	Lectr.
Roberts, O. M., MSc PhD	Prof.	Langford, A. N., BE	Res. Asst.
	Lectr.	Engineering, Electrical	
Mockler, Mrs. Mary J., MSc	Asst.	Dillon, C. T. G., ME	Prof
Celtic Languages and Philology, see also		McGrath, F. A., BE	†Lectr.
Irish Lang. and Lit		Sexton, M. C., PhD Liv., MSc	Lectr.
Caomhánach, S., MA PhD	Prof	Canning, T. I., BSc Belf., PhD Liv.	Lectr.
Chemistry		Murphy, J. M. D., BE	Asst.
Scott, F. L., PhD DSc, FRIC	Prof.	Engineering, Mechanical	
	(Chem. Spectroscopy) †Prof	Pollock, H. P., BE	Lectr.
Ó Cinnéide, R., MSc	Lectr.		

English		Nuclear and Theoretical Physics , see Phys, Exper	
MacCarthy, Bridget G., MA PhD		Pathology , see also Dent Pathol, below O'Donovan, W J, MB BCH BAO BSc	
HDipEd	Prof.		
Breatnach, R P, MA PhD	Lectr.	DPH	Prof
Lucy, J, MA	Asst	Coakley, R D., MD BCH BAO	Lectr.
French , see Romance Langs.		Daly, R A., MSc <i>Dub</i> , LM	†Lectr.
Geography		Hayes, J., MD BCH BAO, MRCPi	†Clin. Asst.
O'Connell, C S., DipGeog <i>Lond</i> , MA		O'Neill, R B, MB BCH BAO	†Clin. Asst
BComm HDipEd	Prof.	Pharmacy , see Medicine	
Fahey, E M, MA	Asst	Philosophy	
Geology		O'Mahony, Very Rev. J E, PhD <i>Louvain</i> ,	Prof
Nevill, W. E., BA PhD <i>Dub</i> .	Lectr.	MA DLitt	
German		Good, Rev. J., DPh <i>Innsbruck</i> , DD <i>May-</i>	
Boyle, Mrs Mary, MA	Prof	nooth, BA (Gen. P)	Lectr.
History , see also Irish Hist		Cashell, Rev M. V, PhD <i>Louvain</i> , MA	†Asst.
Hogan, J., BA DLitt	Prof, Hd of Dept	O'Sullivan, Rev J J, DD <i>Maynooth</i> ,	
	Lectr	BSc HDipEd (Med. Ethics)	†Asst
Flanagan, Rev. J G, MA LLB		Physics, Experimental	
(Paleog & Eccles H) †Lectr		McHenry, J. J, MA <i>Camb</i> , DSc, FIP	Prof
Roche, K F, MA	Asst.	Fahy, E F, PhD <i>Chc</i> , MSc	
Murphy, J A, MA HDipEd	Asst.	(Nuclear & Theoret Phys)	†Prof
Hygiene and Public Health , see Medicine		O'Sullivan, Margaret M., MSc HDipEd	Lectr.
Irish History			Asst.
Pender, S, MA	Prof	Physiology , see also Dent Physiol, below	
Gwynn, D R, BA DLitt		Sheehan, J. D., MD BCH BAO BSc,	
(Mod Irish H) †Res Prof		MRCP	Prof.
Irish Language and Literature		Hall, W. J, MB BCH BAO BSc	Lectr.
Breatnach, R A, MA	Prof.		Asst.
O Cuilleáin, C, MA PhD HDipEd		Psychology	
(Hist of Mod Irish Lit) Prof		Dempsey, Rev. P, PhD <i>Monti</i> , MA	Lectr.
Ó Tuama, S., MA PhD	Lectr	Public Administration	
Italian , see Romance Langs		Haslam, R B., BComm	†Actg. Lectr.
Law		Romance Languages	
Ryan, E F, MA <i>Camb</i> , BL		Byrne-Costigan, Mrs. Ethna, DèL <i>Paris</i> , MA	Prof
(Common L., Real Prop & Equity) †Prof		O'Flaherty, Kathleen M J, MA PhD	
Murphy, B J, BA LLB		(French) Lectr	
(Jurisp, Roman L. & Pers Prop) †Prof.		Servais, Yvonne, LèL <i>Paris</i> , MA PhD	(French) Asst
Gleeson, E, MA BL	†Asst	Calì, P, LèL <i>Milan</i>	(Italian) Asst.
Mathematical Physics		Sociology	
Quinlan, P M, MS PhD <i>Cal Tech</i> , BE		O'Leary, Rev. J, MA	Lectr
MSc	Prof	Spanish	
Hart, V G M, MSc PhD	Lectr.	Healy, J G, MA PhD	Prof.
.. ..	Lectr.	Ware, N J, MA	Asst
Mathematics		Statistics	
Kennedy, P. B, MSc PhD	Prof	Ó Ciardha, T., PhD <i>Lond.</i> , MA	Prof
Barry, P D., PhD <i>Lond.</i> , MSc	Lectr.	Theology	
O'Shea, Siobhán, MSc	Asst	Good, Rev. J., DPh <i>Innsbruck</i> , DD <i>May-</i>	
O'Keefe, C. C., MA HDipEd	†Asst	nooth, BA	†Prof
Medicine , see below			
Music			
Fleischmann, A. G, MA BMus	Prof		
Neeson, S., BA <i>Belf</i>	†Actg. Lectr.		

Zoology

O'Rourke, F. J., MB BCh BAO MSc PhD	Prof Lectr.
Murphy, Marjorie M., MSc HDipEd	Asst
Walton, G A W, MB <i>Brist</i>	Asst
Mulcahy, Mrs Máire F, BSc	†Asst

DAIRY SCIENCE**Agriculture**

Boyle, C, MA <i>Wis</i> , DIC, PhD <i>Lond.</i>	Prof
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Dairy Accounting and Dairy Economics

Murphy, M, MA BComm	Prof.
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Dairy and Food Microbiology

O'Mullane, T., MScDairying	Prof.
...	Asst

Dairy Chemistry

Pyne, G T, MSc PhD, FRIC	Prof
MacSweeney, D T, MSc	Lectr
...	Asst

Dairy Engineering

McGrath, F A, BE	Prof
Synott, E C., BE	Asst

Dairy Technology

O'Shea, M J., BA MScDairying PhD	Prof
Foley, J., MScDairying	Asst

DENTISTRY**Dental Anæsthesia**

O'Sullivan, J F, MB BCh BAO DPH	†Asst.
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Dental Anatomy, see also Anat., above

McHale, J. A., BDS	†Asst.
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Dental Materials and Mechanics

Power, J J, BDS	†Lectr
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Dental Pathology, see also Pathol., above

Gamble, R. G., BDS	†Lectr.
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Dental Physiology, see also Physiol., above

Connors, Mary, BDS, FDSRCS	†Asst
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Dental Prosthetics

Scher, L. B., MB BCh BAO BDS,	†Prof
FDSRCSed	†Asst

Fenlon, Mrs Margaret, BDS	†Asst
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Dental Radiology

Barrett, A V, BDS	†Asst
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Dental Surgery

Butler, N. P., MDS, FDSRCS	†Prof.
Collins, B, BDS (Operative D S.)	†Lectr.

Orthodontics

Dockrell, R B, MA MB BCh BAO	†Lectr.
MDentSc <i>Dub.</i>	

Periodontology

Russell, J. G., MB BCh BAO BDS,	†Lectr
FDSRCS	

MEDICINE

(for Anat., Biochem., Pathol., Physiol., see above)

Hygiene and Public Health

Saunders, J C., MD BCh BAO DPH	†Actg Prof
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Medical Ethics, see Philos., above**Medical Jurisprudence**

Riordan, M. J., MB BCh MAO, FRCSI	†Lectr.
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Medicine

O'Sullivan, D J, MD <i>Birm.</i> , MB BCh BAO	Prof
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Whelton, A., BA MD BCh BAO, FRCPI	†Lectr
Dillon, V. J., MD BCh BAO BSc, MRCPI	†Lectr

Murphy, J, MD BCh BAO DPH	†Lectr
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Corridan, J P, MB BCh BAO DPH	†Asst.
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Fitzpatrick, P F, MB BCh BAO BSc DPH	†Asst.
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McMahon, M F., MD BCh BAO	†Asst.
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Buckley, D B, MD BCh BAO	†Asst
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Mental Diseases

Honan, B. F, DPM	(Dermatol) †Lectr.
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Obstetrics and Gynæcology

Kearney, W., MD BCh MAO, FRCOG	†Prof
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Kearney, J. B., MD BCh MAO LM	†Lectr
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Sutton, R C, MA MB BCh BAO LM <i>Dub.</i>	†Lectr.
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FRCPI	†Lectr.
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O'Donoghue, R, MB BCh MAO	†Clin. Tutor
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O'Connor, T. C., MB BCh MAO	†Clin. Tutor
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Ophthalmology

O'Hea-Cussen, V, DO <i>Oxon.</i> , MB BCh BAO	†Prof.
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Pædiatrics

Barry, R. G., DCH <i>Lond.</i> , MD BCh BAO,	†Lectr
MRCP	

1 Clin Tutor	
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Pharmacology

O'Mahony, D. P J, MB BCh BAO BSc	Actg Lectr.
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Pharmacy

McCarthy, D F, MB BCh MAO	†Asst.
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Surgery

Kiely, P, BSc MD MCh BAO, FRCS	†Prof.
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Kiely, J., MD MCh BAO, FRCSEd	†Lectr
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Kelly, J., MB BCh BAO, FRCS	†Lectr
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Donovan, E, MD MCh MAO	†Lectr.
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O'Connell, St. J G., MB BCh BAO,	†Lectr.
FRCSEd (Orthopædic S.)	†Asst

...	
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2 Demrs.	
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Therapeutics

Loughnan, O T. D., MD BCh BAO,	†Lectr.
MRCPI	

ADMINISTRATIVE AND OTHER STAFF

ASSISTANT SECRETARY. D L Whyte, BA
BComm

APPOINTMENTS BUREAU. Sec. Mary Manning,
BComm

OFFICERS OF RESIDENCE. Catholic—Dean of
Residence Rev J J O'Sullivan, DD *Maynooth*,
BSc HDipEd Asst Officers of Residence Mrs.
Kate Madden, BComm HDipEd, Rev Mother
of La Retraite Hostel, Prof C. O Cullenán,
MA PhD HDipEd, Rev J. O'Leary, MA
Church of Ireland—Dean Rev C B Canon
Roberts, MA Asst Officer Mrs C B Roberts

Presbyterian—Dean Rev T. Blakely, MA
ThM BD Asst. Officer Mrs. Elizabeth M.
Farrington, MA HDipEd Methodist—Dean:
Rev F E Hill, BA Warden, Honan Hostel—
Prof. C. O Cullenán, MA PhD HDipEd

STUDENTS' HEALTH SERVICE. Sec Mrs Maev
Morrogh, MB BCh BAO DPH

CORK UNIVERSITY PRESS Manager Prof. D R.
Gwynn, BA DLitt

ADULT EDUCATION DEPT Dir of Studies.
Rev J. O'Leary, MA.

GENERAL INFORMATION

Queen's Coll, Cork, was founded in 1845 and
opened to students in 1849. A new charter was
granted to the coll. on Dec 2, 1908, in which its
name was changed to Univ Coll, Cork. On the
same date the coll became a constituent coll of
the newly incorporated National Univ. of Ireland.

CONSTITUTION The main authorities of the
coll are governing body, academic council (con-
sisting of all profs.) and facs (each consisting of
profs and lectrs in specified subjs). Faculties
report to academic council on academic matters,
incl appts. The academic council similarly re-
ports to governing body, and to senate of N.U.I.,
Dublin. The governing body is responsible for
general admin of coll, and reports to N.U.I. on
appts, etc. Courses, exams and appts are under
control of the senate of N.U.I.

INCOME. Total for yr ended June 30, 1961
£333,000 (govt grants, 61.5 per cent, fees, 22.6
per cent., coll funds, 12.1 per cent.) Also govt.
capital grant, £9000

FACULTIES AND DEANS (academic yr. 1961-62)
Arts, Prof. S. Pender (Irish hist.), *Celtic studies*,
Prof. S. Caomhánach (Celtic langs & philol.),
comm., Prof. J. Busteed (econ.), *dairy sci.*, Prof.
C. Boyle (agric.), *engin.*, Prof. P. Coffey (civil
engin.), *law*, Prof. E. F. Ryan, *med.*, Dr B F
Honan (mental dis.); *sci.*, Prof. J J McHenry
(exper. phys.)

LIBRARIES (incl deptl libraries). Approx
470,000 vols.

LABORATORIES. Anat, biochem, bot, chem.,
civil engin, dairy chem., dairy engin, dairy
microbiol, dairy technol., electr. engin, geol.,
pathol, pharmacol., phys., physiol, statistics,
zool Exper creamery FIELD STATION (zool)
at Lough Ine, Skibbereen, Co Cork.

MUSEUMS. Nat. hist, med, Cork public
museums. Bot gdns. and plant houses. Coll
farm.

CRAWFORD OBSERVATORY. Equatorial telescope
(8 in.) and transit telescope (5 in.).

TEACHING HOSPITALS. North Charitable In-
firmity and County & City of Cork General H,

South Infirmary and County of Cork General H,
St Finbarr's H (general, fever, midwifery),
St Mary's Orthopaedic H, Cork Mental H, Cork
Eye, Ear & Throat H, Erinville H (County &
City of Cork Lying-in H), Cork Dental H

ADMISSION. Matric. of N.U.I., or its equiva-
lent Sp fac. requirements *engin*—entrance
exam. in maths. Non-Irish-born students must
also apply to the pres. of the coll. for admission.

NON-MEMBERS OF UNIVERSITY may be admitted
to classes if permission is granted by the pres. of
the coll

FIRST DEGREES (of N.U.I.) 3 yrs. (separate
pass and hons courses)—BA, BSc [except for
hons degree in chem., exper. phys or physiol.,
which takes 4 yrs] Normally 3 subjs for BA
or BSc pass degree Normally 2 principal subjs
for BA hons degree, with certain grouping restric-
tions Subjs. available. Irish, Engl., French,
German, Greek, Italian, Latin, Spanish, Welsh,
archaeol., econ., geog., hist., mathl phys., maths.,
philos., psychol., sociol., statistics Normally 1
principal and 1 subsidiary suby for BSc hons
degree Principal subjs. for BSc hons = biochem,
bot, chem., exper phys, geol, mathl phys,
maths., physiol, psychol., statistics, zool Regns
for BSc are being changed to provide for BSc
(general) in 3 yrs, with 4th yr. for hons 3 yrs
(pass and hons. on same course)—BCL, BComm,
BMus 4 yrs (pass and hons. on same course)—
BE (civil or electr.), BScDairying 5 yrs (pass
and hons. on same course)—BDS 6 yrs (pass
and hons on same course)—MB BCh BAO

Evening courses leading to BA pass degree
(with a restricted choice of subjs) and the BComm
degree are normally started once every 4 yrs.

HIGHER DEGREES (of N.U.I.) 1 yr min.—
LLB, MA, MEconSc, MEngSc, MSc, MSc
Dairying 3 yrs min.—MComm, ME, MCh,
MAO, MDS, MD, PhD 5 yrs min.—DLitt,
DLittCelt, DEconSc, DSc, DMus, LLD

In certain circumstances grads of other univs.
may be admitted to higher degrees Courses of
instrucn are available for the MA or MSc degree

in mathl phys, maths and stats., also for LLB degree

DIPLOMAS. *Univ. dipls.* 1 yr—HDipEd (postgrad), 2 yrs—dairy sci, comm, chem technol *Coll. dipls* obstet (1 yr postgrad.), comml educn (1 yr from BComm).

STUDY LEAVE No standard practice Leave-of-absence granted to members of staff, who make own arrangements, provided coll satisfied with purpose of leave and with arrangements for teaching during absence.

ANNUAL FEES First degrees—arts, comm., law or music, £45, dairy sci, £60, engin or sci., £65. Med. pre-med, £65; 1st or 2nd yr, £70, 3rd yr., £65, 4th yr., £45, 5th yr., £35. *Clin and hosp. fees*—conjoint hosp. ticket (3 hosp.) 3rd yr., £15.15s., 4th or 5th yr., £33. *Spec.*—anesth., £2.2s., post-mortems, £2; fever, £3.3s., orthopaedic surg, £3.3s.; mental hosp (3 mos), £4.4s.; ophthalmic hosp. (3 mos), £5.5s., maternity hosp (6 mos), £12.12s. *Dentistry.* pre-dent, £65, 1st or 2nd yr., £70, 3rd yr., £40; 4th yr., £35. *Dent. hosp. fees*—2nd yr, £47.12s., 3rd or 4th yr., £75. *Equipment & instruments*, £55 total approx.

Higher degrees—LLB, £45, MSc, MSc Dairying, MEngSc, ME, £35, PhD, 1st yr. £25, 2nd yr. £15, 3rd yr. £10. All others, £25.

Diplomas—HDipEd or dipl in comml educn., £30, dipl in dairy sci, £28 each yr; dipl in comm. or in chem technol., £1 each yr.

Foreign students, incl students from Gt Britain, pay 50 per cent in excess of the above fees.

ACADEMIC YEAR. Term dates, 1961-62. Michaelmas, Oct 1-Dec. 31, Hilary, Jan 1-March 31, Trinity, April 1-June 30. Christmas and Easter recesses. med. and dent., Dec. 23-Jan. 1 (incl.) and April 20-April 23 (incl.); all others, Dec. 16-Jan. 8 (incl.) and April 1-April 24 (incl.)

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960-61

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	972	103
Women	404	23
Total	1376	126

Distribution by Faculties *Agric*, 23, *arts*, 534, *comm*, 96, *dairy sci*, 63; *engin.*, 128, *law*, 11, *med & dent.*, 245; *sci.*, 276. Total 1376.

Included in the figures above are:—

Postgraduate students, 149.

New admissions, 386

LANGUAGE OF INSTRUCTION English. Limited provision for lectures through medium of Irish also

ADULT EDUCATION The adult educn cttee., in co-operation with local cttees of vocational educn., conducts various courses in adult educn and arranges for lectures and conferences. Coll dipl in soc & econ sci (2 yrs), coll dipl in soc. study (2 yrs); coll dipl. in rural & soc. sci (2 yrs.), coll dipl in soc & home sci (2 yrs). These dipls. are open only to pt-time adult educn. students

APPOINTMENTS BUREAU. See 'Admin. and Other Staff', above

GRADUATES' ASSOCIATIONS Univ graduates' club, Cork (non-official), NUI. graduates' assocn

STUDENT RESIDENCES Honan Hostel, College Rd, Cork (approx 38 men students), fee 115 gs per session, La Retraite, Cork (approx. 30 women students), fee from 100 gs. per session. General system of licensed lodgings. Students subject to supervision by officers of residence

UNIVERSITY MILITARY FORMATION. F.C.A. (Fórsa Cosanta Aitúil).

STUDENTS' HEALTH SERVICE. Available to all students. Med exam compulsory for all freshmen

STUDENTS' REPRESENTATIVE COUNCIL Elected annually by students. Has 3 representatives on jt bd, which makes annual grants to student clubs and societies. Generally co-ordinates student social functions

ATHLETIC FACILITIES Athletic and cycling club, assocn football, basketball, boxing, camogie, hurling, Gaelic football, golf, lawn tennis, rowing, rugby football, swimming, women's hockey. Coll. athletic grounds, 15 acres. 20 student socs

PUBLICATIONS Annual: *Calendar* (38), *Cork Univ. Record*, *Quarryman* (students' magazine), *Entrance Scholar*, *Regns. & Courses*, *Univ. Exam. Papers*.

Students from other countries, 57. (Countries from which largest numbers came: U.S.A., 20; Nigeria, 14; Holland, 5; W Indies Fed., 4)

DEGREES AWARDED (by N.U.I.) (1960-61) *Arts* BA, 101 (incl 44 hons.), BMus, 3, MA (hons), 3. *Comm* BComm, 22 (incl 1 hons) *Dairy sci* BScDairying, 5 (incl. 2 hons.), MSc Dairying, 2. *Engin.* BE, 25 (incl 10 hons) *Med.* MB BCh BAO, 33 (incl. 3 hons.); MD, 3, MCh, 2, PhD, 1; BDS, 11. *Sci.* BSc, 51 (incl 28 hons.), MSc, 7 (incl. 2 hons.); PhD, 1. Total number of first degrees awarded, 251

DIPLOMAS AWARDED (by N.U.I.) (1960-61) HDipEd (postgrad.), 67 (incl 13 hons.), Dip DairySc, 24; DipComm, 5; DipChemTech, 3.

[Information compiled as at 2/11/61]

UNIVERSITY COLLEGE, GALWAY

Founded 1845

Postal Address . Galway, Republic of Ireland

Telephone : Galway 2408

PRESIDENT—M. Ó TNÚTHAIL, DSc

REGISTRAR—Professor J MITCHELL, BSc BE, FGS

BURSAR—Professor P LARKIN, BA HDipEd

TEACHING STAFF

[† = Part-Time]

Anatomy		English Language and Literature	
Shea, S, MD BCh BAO	Prof	Murphy, J, MA PhD	Prof.
Doyle, J. F., MB BCh BAO	Lectr	Diskin, P, MA	Asst.
3 Assts.†, 6 Demrs		Brennan, P, MA HDipEd	Asst.
Archæology, Celtic		Geology and Geography	
Duignan, M V., MA HDipEd	Prof.	Mitchell, J, BSc BE, FGS	Prof
		1 Demr.	
Celtic Languages		German	
deBurca, S, MA PhD	Lectr	Shea, Mrs Margaret M., MA	Prof.
Chemistry		History	
O'Colla, P., MSc PhD	Prof.	Hayes-McCoy, G., MA PhD DLitt BComm	Prof.
O hEocha, C., MSc PhD	Lectr.		
Lee, Elizabeth, MSc	Asst	Kennedy, Sheila G., MA HDipEd	Lectr (in Irish)
MacCrath, D., MSc	Asst.		
5 Assts †, 10 Demrs.			
Classics, Ancient		Irish, Modern	
Heavey, Margaret M., MA HDipEd	Prof.	Ó Máille, T S., BA PhD HDipEd	Prof.
Killeen, F., MA	Lectr	O'Brom, T P, MA	Asst
Luibhéid, C., PhD	Asst	4 Assts.†	
Economics, Commerce and Accountancy		Irish, Old and Middle, and Celtic	
Ó Buachalla, L., MComm HDipEd	Prof	Philology	
Ó Nuallán, L, BA BComm DëconSc	Lectr.	Ni Maol-Chroin, Miss Caitlin, DPhil	Prof
		Bonn, MA HDipEd	
Education		Law and Jurisprudence	
Larkin, P., RA HDipEd	Prof	Gallagher, P, BA LLB	Prof.
MacFhinn, Rev. P. E., MA DD HDipEd	Lectr. (in Irish)		
MacCabe, Br L, BA HDipEd	Asst.	Mathematical Physics	
Engineering, Civil		MacCionnath, E., MA MSc	Prof
O'Keefe, J D, BE PhD	Prof.	....	Lectr.
O'Lochlainn, P., BE MSc	Lectr.	de Róiste, S, MSc	Asst
Tobin, P, ME	Asst.	2 Assts.†	
Lec, G. J., DIC, BE	Asst.		
Engineering, Electrical		Mathematics	
Ryan, E. R., BSc ME	Asst.	Tobin, J J., MSc PhD	Prof.
		....	Lectr.

Ryan, E R, BSc ME
3 Assts.†

Medicine, see below

Natural History

De Valera, Máirín, MSc PhD
Ó Céidigh, P., MSc PhD
Birmingham, Margaret, MSc
6 Demrs.

Philosophy

Rabbotte, Rev. E, PhD DD
Ó hEidéain, Rev. Fr. E., DPhil *Rome*,
MA
2 Assts.†

Physics

O'Brolchain, C., MSc PhD
Larkin, D M., MSc
O'Connor, T., PhD
2 Assts.†, 13 Demrs

Physiology

Donegan, J F, BSc MB BCh BAO
Burns, J K., BSc MB BCh BAO
O'Toole, S, MB BCh BAO

Romance Languages

MacGiollaMáith, P, MA LLB
O'Reilly, Mary J, MA

MEDICINE

(for subjs of first 2 yrs.—Anat., etc, see above)

Bacteriology

Folan, M. E, MSc MB BCh BAO
2 Demrs.

Asst	Experimental Medicine and Practical Pharmacology	
	Lavelle, J. M, MB BCh BAO	Prof.
	Medical Jurisprudence	
	Little, M G., MB MCh PhD	Lectr.
	Medicine	
Prof	O'Donnell, M J., MD	Prof
Lectr	4 Clin Teachers	
Asst	Mental Diseases	
	Shea, J. R, DPM	Lectr
	Midwifery and Gynaecology	
Prof	O'Dwyer, E M, MB MAO	Prof
Lectr.	Ophthalmology and Otology	
		Prof
	Pædiatrics	
Prof.	McNicholl, B, MD DCH, MRCP	Lectr
Lectr	Pathology	
Asst.	Kennedy, J D, MD MSc	Prof
	1 Demr.	
	Preventive Medicine	
Prof.	McConn, C, BSc MD BCh BAO DPH,	
Lectr.	FRCP1	Lectr
	Surgery	
Prof.	O'Beirn, S, MCh MB BAO	Prof.
Lectr	2 Clin. Teachers	
	Therapeutics	
	O'Driscoll, B. J., MD BCh BAO	Lectr
	Therapeutics, Materia Medica and Pharmacology	
Prof	McDermott, E N, BSc MD, FRCSI	Prof

ADMINISTRATIVE AND OTHER STAFF

DEANS OF RESIDENCE Rev Fr T Kync,
BA, Rev R Harris, BA; Rev F J Harte,
BA BD, Rev C McNeill Caldwell, MA

LADY SUPERINTENDENT. Mrs. Mary O'Driscoll, BComm.

ASSISTANT LIBRARIAN C. Townley, BA BComm.

GENERAL INFORMATION

Queen's Coll., Galway, was founded in 1845 and opened to students in 1849. In 1908 the coll. became a constituent coll. of the newly incorporated National Univ of Ireland. A new charter for the coll. was issued on Dec 20, 1908, changing the name of the coll. to Univ. Coll., Galway.

LIBRARY. 80,000 vols

LABORATORIES. Biol, chem., engin, geol, pathol, phys., physiol.

MUSHROOMS. Anat., archæol., gynæcol, mat. med., nat. hist.

ADMISSION is by matric of NUI or its equivalent. In addition, special entrance exam in maths. for fac of engin. Students not born in Ireland must also apply to pres of the coll for admission

FIRST DEGREES (of NUI.). BA, BA (Celt. studies)—3 yrs (hons degree may be obtained in Irish, Engl., Latin, Greek, French, Italian, Spanish, German, mod hist, Breithnas (Welsh), Celtic archaeol., econ, sociol., philos., legal & pol sci.), BSc—3 yrs (hons degree may be obtained in maths, mathl phys, exper phys, chem, zool, bot., bacteriol (indust)); BComm—3 yrs, LLB—2 yrs after BA (legal & pol sci.) or 3 yrs after BA (ordinary subjs), BE (Civil)—4 yrs., MB BCh BAO—6 yrs

HIGHER DEGREES (of NUI) MA, 1 yr from BA, MSc, 1 yr from BSc, PhD, 3 yrs. from 1st degree (all facs.)

DIPLOMAS, CERTIFICATES HDipEd, 1 yr from BA or BSc, DipEd, 1 yr from 2-yr. course in teachers' trg coll.; CertComm, 1 yr

FEES Coll, £5 p.a. Inclusive approx. fee for complete degree course. arts, 3 yrs, £102, sci, 3 yrs, £144, law, at least 6 terms after BA, £78, med, 6 yrs. (incl 2 yrs' gen. hosp. fees), £343; engin, 4 yrs, £192, comm, 3 yrs., £102 Post-grad or res course, £22 Foreign students in all facs are required to pay 50 per cent in excess of normal coll fees

ACADEMIC YEAR. Oct. to June, 3 terms of 10 weeks each Term dates, 1961-62: Michaelmas, Oct 10-Dec 16; Hilary, Jan 10-March 31; Trinity, April 25-June 30

LANGUAGE OF INSTRUCTION. Full courses of lectures are given in the Irish lang. in Irish, Latin, Greek, hist., geog., maths., Celtic archaeol., econ., comm., accounting, educn., exper. phys., chem., bot., philos and mathl phys. Full courses of lectures are given in the English lang. in the subjs. of the professorships and lectureships of the coll., except in the case of the subjs. of the professorship of econ., comm. and accountancy, lectures on which are given through the medium of Irish alone.

RESIDENCE The cost of bd and lodging for a student varies from £3. 10s to £4 a week. Every student is required to register under a dean of residence, who exercises supervision over the general conduct of students outside the precincts, and every woman student under a lady supt, who exercises supervision over their conduct within the precincts of the coll

There is a UNIVERSITY APPOINTMENTS BUREAU and a STUDENT HEALTH SERVICE.

PUBLICATIONS List of licensed lodging-houses, free; *Coll Calendar* (as 6d.), univ exam papers (post free, 2s 6d.), from O'Gorman and Co, Galway

THE YEAR 1960

RETIREMENTS Prof T J Dinan (nat hist.)

Included in the figures above are —

Postgraduate students, 126

New admissions, 347

Students from other countries, 65 (Countries from which largest numbers came. Trinidad, 16, USA, 14)

DEGREES AWARDED (by NUI) (1959-60)

Arts BA, 82, MA, 2 Comm., BComm, 37
Engin: BE, 12 Law LLB, 3 Med: MB
BCh BAO, 19, MD, 2, MCh, 1 Sci BSc,
43, MSc, 6, PhD, 1 Total number of first
degrees awarded, 196

DIPLOMAS AWARDED (by NUI.) (1959-60)
HDipEd, 71

Statistics

STUDENT NUMBERS, 1960-61
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	771	49
Women	287	7
Total	1058	56

Distribution by Faculties Agric, 41, arts,
404, comm, 159, engin, 68, law, 5, med,
206, sci, 231 Total 1114

APPENDIX II

UNIVERSITIES OF SOUTH AFRICA

UNIVERSITY OF CAPE TOWN (p. 1326)
UNIVERSITY OF NATAL (p. 1336)
UNIVERSITY OF THE ORANGE FREE STATE (p. 1344)
POTCHEFSTROOM UNIVERSITY FOR CHRISTIAN
HIGHER EDUCATION (p. 1348)
UNIVERSITY OF PRETORIA (p. 1353)
RHODES UNIVERSITY (p. 1364)
UNIVERSITY OF SOUTH AFRICA (p. 1369)
UNIVERSITY OF STELLENBOSCH (p. 1373)
UNIVERSITY OF THE WITWATERSRAND,
JOHANNESBURG (p. 1382)

[Information compiled as at 31/7/61]

UNIVERSITY OF CAPE TOWN*

Incorporated 1918; previously established as South African College, 1829

Postal Address: Private Bag, Rondebosch, Cape Province, South Africa

Cables and Telegrams: University, Rondebosch

Telephones: 694351-3

VISITOR—THE STATE PRESIDENT OF THE REPUBLIC OF SOUTH AFRICA

CHANCELLOR—The Hon. Mr. Justice A. VAN DE SANDT CENTLIVRES, BA *Cape*, DCL *Oxon.*, LL.D.

PRINCIPAL AND VICE-CHANCELLOR—J. P. DUMINY, MA *Cape & Oxon.*, BSc *Oxon.*

DEPUTY PRINCIPAL—D. P. INSKIP, MA *Glas.*, LL&L *Nancy*

PRESIDENT OF CONVOCATION—A. H. BROEKEMA, QC, BA *Stell.*, LL.B.

CHAIRMAN OF COUNCIL—A. F. STEPHEN, BA LL.B.

REGISTRAR—J. G. BENFIELD, BCom *S.A.*

LIBRARIAN—R. F. M. IMMELMAN, BLS *Col.*, MA, FLA

* Member of the Association of Universities of the British Commonwealth

TEACHING STAFF

[†=Part-Time]

Accounting

Greenwood, H., FSAA, CA
 Loughout, J., BCom, CA
 20 Lectrs † and Tutors

African Studies

Lestrade, G. P., AM *Harv.*, MA, FRSSAf
 (Bantu Langs.) Prof.
 Wilson, Mrs Monica, MA PhD *Camb.*,
 FRSSAf (Soc Anthropol.) Prof.
 Simons, H. J., MA *S.A.*, PhD *Lond.*
 (African Govt & Law) Assoc Prof
 Inskeep, R. R., BA *Camb.* (Archaeol.) Sr. Lectr
 Jordan, A. C., MA *S.A.*, PhD
 (Bantu Langs.) Lectr
 Kunene, D. P., MA Lectr
 Carstens, W. P., BA *Rhodes* Lectr.
 2 Jr Lectrs., 1 Clerical Asst.

Afrikaans, see Nederlands and Afrikaans

Anatomy

Wells, L. H., MB ChB DSc *Rand* Prof
 Singer, R., MB ChB Assoc Prof.
 van der Horst, Joan H., MB ChB Lectr.
 Jarvis, J. F., MB BS *Lond* Lectr.
 Wilson, Paula M., MB ChB Lectr.
 2 Lectrs.†, 2 Assts.†, 2 Tech. Assts., 1 Demr

Architecture

White, L. W. T., FRIBA Prof., Dir. of Sch
 Pryce-Lewis, O., FRIBA
 Assoc Prof, Asst Dir. of Sch.

Butt, J. E.

(Quantity Surveying) Sr Studio Master
 Sturrock, F. L., FRIBA Sr Studio Master
 Morris, A. S. Sr Studio Master
 Bolland, F. S., DipArch DipTP
 Sr. Studio Master

Anderson, W. G. D., BA *Lond* Sr. Studio Master

Klop, U. H. Studio Master
 Floyd, H. C., BAArch Studio Master
 Emery, J. E., BAArch Studio Master
 te Water, F. K., DipArch Studio Master
 Soltynski, R., M., BArch *Warsaw* Studio Master
 James, W. B. Lectr.
 Baragwanath, R. L., DipQS Lectr.
 Rabie, J. W., DipQS Lectr.
 6 Assts., 2 Clerical Assts., 1 Demr

Astronomy

Stoy, R. H., CBE, MA PhD *Camb.*,
 FRSSAf Hon. Prof.

Bacteriology, see Pathol.

Bantu Languages, see African Studies

Botany and Bolus Herbarium

Lutjeharms, W. J., PhilNatD *Ley*, FRSSAf
 Harry Bolus Prof
 Rycroft, H. B., BSc *Stell*, MSc *S.A.*, PhD
 †Harold Pearson Prof Dir. of National
 Bot Gdns.,
 Schelpe, E. A., MSc *S.A.*, DPhil *Oxon.*,
 FLS Sr. Lectr
 Schütte, K. H., PhD *N.U.I.* Lectr
 Graves, Judith M., MSc Lectr
 1 Jr Lectr., 1 Asst., 1 Tech. Asst., 1 Clerical
 Asst

Chemistry

Hollman, F. G., MA PhD *Camb.*, FRSSAf
 (Org. C.) Mally Prof.
 Arnold, R., MSc PhD *Rand*, FRIC Sr. Lectr
 Spong, A. H., MSc *Lond*, PhD *Camb.*,
 FRIC Sr. Lectr.
 Lamchen, M., MSc *Pret*, PhD *Lond*. Sr. Lectr.
 Stephen, A. M., DPhil *Oxon*, MSc
 PhD Sr. Lectr.
 Pay, M. H., BSc *Lond* Lectr.
 Campbell, W. E., BSc *Rhodes* Lectr.
 Hotz, M. C. B., BSc PhD Lectr.
 5 Jr. Lectrs., 5 Tech. Assts., 5 Demrs.,
 1 Clerical Asst.

Classics

Pasp, A. H. R. E., LittD *Utrecht*,
 BLitt *Oxon*. Prof
 Pope, M. W. M., MA *Camb.* Prof.
 Newton, B. E., MA *Oxon* Lectr
 Conomis, N. C., BA *Athens*, BLitt *Oxon*. Lectr.
 1 Demr.

Commerce

Hutt, W. H., BCom *Lond* Prof.
 Hampton, J. D., BSc *Lond*. Sr. Lectr
 Horwitz, R., BCom MA Sr. Lectr.
 Gurzynski, Z. S. A., BCom *Lond*. Lectr.
 Buice, Mrs. Helene, BCom MA Jr. Lectr
 2 Clerical Assts., 3 Assts.†

Economics

Robertson, H. M., MA *Leeds*, PhD *Camb*
 Jagger Prof.
 van der Horst, Sheila T., PhD *Lond*,
 MA Sr. Lectr.
 Botha, D. J. J., MCom *Pret*, EcDr *Amst*.
 Sr. Lectr
 Katzen, L. H., BA *Rand*, MSc *Lond*. Sr. Lectr.
 Arkin, M., BA BCom PhD Lectr
 1 Jr. Lectr., 3 Demrs., 1 Clerical Asst.

Education

Lighton, R. E., BA *S.A.*, MA *Pret*.
 (in English) Prof.
 (in Afrikaans) Prof.

Ferguson, W T, BA <i>Rhodes</i> , MA MEd		History	
Stewart, R R., BSc <i>Rand</i> , BA <i>Rand</i> & <i>Potchef</i>	Sr Lectr.	King George V Prof	
Spilman, Mary D., BA	Lectr.	van der Pool, Jean, PhD <i>Lond</i> , MA BEd	Sr Lectr
Hart, Ida E. J., MA BEd PhD	(Elocution) Lectr	Nourse, G. B., MA <i>S.A.</i> , <i>Natal</i> & <i>Oxon</i>	Sr Lectr.
Heynes, I de V., MA MEd PhD	Lectr	Davenport, T. R. H., MA <i>S.A.</i> & <i>Oxon</i> .	Sr Lectr.
Satusky, Mrs Lily-Jean, BA	Lectr.	Katzen, Mrs Maybelle, MA <i>Rand</i> & <i>Lond</i>	Lectr.
Cilliers, J L le R, MSc <i>Stell</i> , MEd <i>OFS</i>	Lectr	2 Jr Lectrs, 1 Demr	Lectr.
Lombard, C J., BA <i>Stell</i>	Lectr.	Mathematics	
Gregorowski, Mrs Doris A.	Lectr.	Skewes, S, PhD <i>Camb</i> , MA BSc	Assoc. Prof
Groves, Mary E., MA	Asst. Lectr	Whiteman, J H M, MA <i>Camb</i> , MSc	Sr Lectr
9 Assts		Haidie, K., MSc <i>Natal</i> , PhD <i>Camb</i>	Sr Lectr
Engineering, see below		Smart, D R, PhD <i>Camb.</i> , MSc	Sr Lectr
English		Langerman, S M., MA <i>Camb.</i> , MSc	Lectr.
Howarth, R G, BA <i>Syd.</i> , BLitt <i>Oxon</i> , FRSL (E Lit.) Arderne Prof		Allison, D, BA MSc BEd	Lectr
Casson, L F., MA <i>Adel.</i> , BLitt <i>Oxon.</i> , PhD <i>Edin.</i> , FSA (E. Lang) De Beers Prof		Alma, Mrs. Irene, ME(Electr) <i>T H Delft</i>	Lectr
Cavers, Dorothy L., BLitt <i>Oxon</i> , MA BEd	Sr. Lectr.	Gravett, Isabelle N., BA <i>Natal</i>	Lectr.
Segal, P, MA <i>Lond</i> , BEd	Sr Lectr.	Kipps, Mrs H., MSc	Lectr
Levinson, Deirdre, MA BLitt <i>Oxon</i> .	Lectr	Wulfsahn, A, MSc <i>Camb</i> , BSc	Lectr
Woodward, A. G., MA <i>Oxon</i>	Lectr.	1 Jr Lectr, 4 Assts., 2 Clerical Assts	
4 Jr. Lectrs., 6 Demrs.		Microbiology	
Fine Art, Michaelis School of		Olivier, Dorothea L, BSc <i>Rand</i> , MSc	Lectr
Shephard, R N, DipFineArt <i>Lond</i>	Prof.	Mineralogy and Geology	
van Essche, M C. L.	Sr. Lectr	Simpson, E S W, PhD <i>Camb.</i> , MSc	
Lapshitz, L	Sr. Lectr	Philipson-Stow Prof	
Harvey, R	Lectr.	Mathias, Mrs. Frances C M., MA PhD	Sr. Lectr
Simmers, R. M	(Drawing) Asst	DS	Sr. Lectr
4 Assts †, 1 Demr, 1 Sec		Fuller, A. O, PhD <i>Prim.</i> , MSc	Sr Lectr
French		1 Res & Museum Asst., 1 Demr	
Shackleton, M, MA <i>Oxon</i>	Prof.	Music	
Greshoff, C. J., MA LittDrs <i>Amst</i>	Sr. Lectr.	Chisholm, E., DMus <i>Edin.</i> , FRCO	
Whitaker, Mrs. Marie H., MA	Lectr	Prof., Dir of S. African Coll of Music	
2 Jr. Lectrs, 1 Asst.		Armhold-Domsaisus, Mrs. Adelheid	Sr Lectr
Geochemistry		Rubens, H.	Sr. Lectr.
Ahrens, L. H., MA <i>Oxon.</i> , DSc <i>Pret</i> , FRIC, FGS	Prof	Robins, S.	Sr. Lectr
Geography		Fulvermacher, G.	Sr Lectr.
Talbot, W. J., BSc <i>Lond</i> .	Prof	Dennis, E. J.	Lectr
Davies, D H., MA <i>Wales</i>	Sr. Lectr	Kemp, Elizabeth	Lectr
Impey, L L H, MA	Lectr.	Hall, L, BA BMus <i>Oxon</i>	Lectr.
Beyer, Jacqueline, PhD <i>Chic</i>	Lectr.	Fiasconaro, G.	Lectr.
1 Demr, 1 Sec.		Starke, Marjorie	Lectr.
Geology, see Mineral		1 Asst, 2 Clerical Assts, 40 other staff	
German		Nederlands and Afrikaans	
Rosteutscher, J. H. W., DPhil <i>Bres.</i> , PhD <i>Camb</i> .	Prof	Scholtz, J. du P, MA <i>Stell.</i> , LittD <i>Amst</i> .	
1 Jr. Lectr, 1 Demr.	Lectr.	Hofmeyer Prof	
Hebrew		Verhage, J*A, MA PhD	Sr. Lectr.
Abrahams, I, MA <i>Lond</i> .	†Prof	Lindenberg, E, LittDots <i>Amst.</i> , BA	Lectr.
1 Demr.		PhD <i>Rand</i>	Lectr.
		1 Jr. Lectr	
		Nederlands Cultural History	
		Bax, D., LittD <i>Nijmegen</i>	Prof.

OceanographyDarbyshire, J., DSc *Wales*, FIP

Prof

Paterson, Nellie, DSc *Rand*, PhD *Camb.* Lectr.
 Brown, A. C., MSc *Rhodes* Lectr.
 2 Jr. Lectrs., 1 Clerical Asst., 2 Tech. Assts.

Pathology, see Medicine, below

PhilosophyMurray, A. H., MA *Stell*, BLitt
DPhil *Oxon.*

Prof

Versfeld, M., PhD *Glas*, MA
 du Plessis, S. I. M., DPhil *Pret.*
 2 Jr. Lectrs

Assoc Prof
 Sr Lectr

PhysicsSchaffer, W., MSc PhD *S.A.*

Prof

Grindley, E. N., MSc *Brist*, PhD
 Wiles, G. G., MSc *S.A.*, DPhil *Oxon*

Sr Lectr
 Sr Lectr

Juntz, J. W. F., MSc

Sr Lectr

Cherry, R. D., MSc

Sr Lectr

Buchowieczki, J., DipEng *Zür*

Lectr

Cilliers, W. A., MSc PhD *Camb.*

Lectr

Barrett, P. J., MA BSc *Oxon*, BScEng

Lectr

2 Jr. Lectrs., 5 Tech. Assts., 1 Clerical Asst.

Physiology and PharmacologySloan, A. W., BSc MD *Glas*, FRFPGS *Glas*

Prof

Zwarenstein, H. J., DSc *Manc*, MA MSc

Assoc Prof

Sapeika, N., BA PhD MD

Assoc Prof

van Zyl, A., MSc *Stell*, PhD *Rand*

Sr Lectr

Barber-Riley, BSc MD *Liv*

Lectr

Ramsay, A. G., BSc PhD *Glas*,

Lectr

MS *Northwestern*

1 Jr. Lectr., 3 Lectrs.†, 6 Tech. Assts.,

1 Clerical Asst

PsychologyDanziger, K., DPhil *Oxon*, BA MSc

Prof.

Taylor, J. G., MA *Aberd.*

Sr. Lectr.

Grover, Vera M., MA PhD

Sr. Lectr.

Schermann, Mrs. Ada, MSc

Lectr.

Boths, Elizabeth, PhD

Lectr

1 Jr. Lectr., 1 Lectr.†, 1 Tech. Asst.,

1 Clerical Asst

Social ScienceBatson, E., BSc(Econ) *Lond.*

Prof.

Venturi, Eileen M. E., BA *Lond*, MA *S.A.*

Supervisor, Field Work

Helm, Mrs. Brunhilde, MSocSc

Lectr

Batson, Mrs. Helen M., BSc(Econ) *Lond.*

Lectr

1 Clerical Asst., 1 Asst

Speech Training

van der Gucht, Rosalie E., DipInDramatic

Sr. Lectr

Art *Lond.*Taylor, Mavis L., BA *Natal*

Lectr

Mills, Alice G

Lectr.

5 Assts.†, 1 Clerical Asst.

ZoologyDay, J. H. O., DFC, PhD *Liv*, BSc *S.A.*

Prof.

Broekhuysen, G. J., PhD *Ley.*

Sr. Lectr.

Millard, Mrs. Naomi A. H., PhD

Sr. Lectr

ENGINEERING

(see also Maths., above)

Chemical Engineering

Carr, A. D., BSc PhD

Sr Lectr

Kropholler, H. W., BSc

Sr Lectr

Buhr, H. O., BSc

Lectr

1 Jr. Lectr., 1 Tech. Asst.

Civil EngineeringRobertson, R. G., MA *Oxon* Corporation ProfKing, W. H., BA *Manc*, BSc *Durh*

Sr. Lectr

Robertson, D. C., MSc

Sr. Lectr.

McGaw, D. J., BSc *Lond*

Lectr

Kilner, F. A., MA *Oxon*, DIC, MSc *Lond.*

Lectr

de Kock, M. O., BSc

Lectr

2 Jr. Lectrs., 2 Tech. Assts., 1 Clerical Asst

Electrical EngineeringGuelke, R. W., PhD *Gott*, FIP Corporation Prof

Besseling, J. L. N., BSc(Eng) PhD

Sr Lectr

Webster, G. H., MEng *Sheff*

Sr. Lectr

Einhorn, H., DrIng *Berl*, PhD

Sr. Lectr

Enslin, N. C. de V., MSc PhD

Lectr.

McLaren, S. G., BSc

Lectr.

2 Jr. Lectrs., 2 Tech. Assts., 1 Demr

Land Surveying

Menzies, G. H., BSc

Prof

West, I. D., BSc (Theory of Land S)

Sr. Lectr

Meadows, P. L., BSc

Lectr

Taylor, I. McL., BSc

Temp. Lectr

1 Jr. Lectr., 2 Assts., 1 Tech. Asst.

Mechanical EngineeringMetcalfe, P., MA *Oxon*, BSc

Prof.

Stegen, R. M., BSc *S.A.*, MSc *Burn*

Sr. Lectr

Machin, K. E., BSc(Eng) *Lond.*, MSc

Lectr.

Kessel, J. T., BSc *Rand*

Lectr.

de Candia, O. E., DottIng *Turnn*

Lectr.

2 Jr. Lectrs., 2 Assts., 3 Tech. Assts.

LAW(see also Accounting, African Studies and
Hist., above, and Forensic Med., below)**Roman-Dutch Law**Price, T. W., MA LLB PhD *Camb*, BALLD *S.A.*

Prof

de Vos, W., BA LLB *Stell*, LLD

Assoc Prof

...

Sr. Lectr.

6 Assts., 1 Clerical Asst

Roman LawBenart, B., LL.M. *Lond*, BA LLB

W. P. Schreiner Prof

...

Sr. Lectr

4 Assts., 1 Clerical Asst.

Commercial Law

Thomas, J. D., BA LLB
5 Assts., 1 Clerical Asst.

MEDICINE

(for subjects of the first 2 yrs —
Anat., etc., see above)

Bromilow-Downing, B, MB ChB
Prof of Med. Educn, Dean

Anæsthetics

Bull, A. B., MB ChB	Sr Lectr
Harrison, G. G., MB ChB	Sr Lectr
Pretorius, J. A., MMed ChB	Sr Lectr.
Ozinsky, J., MB ChB	Sr Lectr.
Heyns, M. V., MA O.F.S., MB ChB	Sr Lectr
Voss, T. J. V., MB ChB	Sr Lectr.
Abelsohn, J., MB ChB	†Sr Lectr
Jenkin, P. S., MB ChB	†Sr Lectr
Atkins, L., MMed ChB	Lectr
Malherbe, P. H., MMed ChB	Lectr
Lambrechts, W. v. d. M., MB ChB	Lectr
Rossouw, G. J., MB ChB MMed	Lectr
8 Assts., †, 3 Med Practs †	

Bacteriology, see Pathol. and Bacteriol.**Chemical Pathology**

Kench, J. E., MB ChB <i>Manc</i> , PhD	
DSc <i>Brist</i>	Prof
Potgieter, G. M., MB ChB MMed	Lectr.
5 Tech. Assts	

Child Health

Ford, F. J., MD *Glas.*, FRFSGlas
(Child Health) Prof.

Hansen, J. D. L., MB ChB	Sr Lectr.
Smythe, P. M., MB BChir <i>Camb.</i>	Sr Lectr.
McDonald, R., MD <i>Oxon</i>	Lectr.
Heese, H. de V., BSc <i>Stell</i> , MD	Lectr.
9 Staff†	

Dermatology

Lang, R., BA MB BCh <i>Dub.</i>	Sr Lectr
Jacobson, J. J., BA MB ChB	Sr Lectr.
Koon, R., MD	Lectr
4 Lectrs.†	

Ear, Nose and Throat

Roux, D. J., MA MB BCh <i>Dub.</i>	
MD <i>Amst</i>	†Sr Lectr.
Dickie-Clark, W. F., MB ChB <i>Aberd.</i>	†Sr Lectr.
6 Lectrs †	

Forensic Medicine

Turner, R., MB ChB DPH Prof.

Gynæcology, see Obstet. and Gynæcol**Infectious Diseases**

Ackerman, H. R., MB ChB	†Sr Lectr.
Rabkin, R., MB ChB	Lectr.

Medical Ethics

Prof	Bromilow-Downing, Prof. B., MB ChB	†Lectr.
Sr Lectr.		

Medicine, General

Brock, J. F., MA <i>Oxon</i> & <i>Camb</i> , DM <i>Oxon.</i>	Prof.
FRCP	Assoc Prof
Eales, L., MD	Sr Lectr
Forman, F., MD <i>Aberd.</i> , BA, FRCP	Sr Lectr
Brown, H. A., MB ChB	Sr Lectr
Landau, A., MB ChB	Sr Lectr
Horwitz, M., BSc MD	Sr Lectr
Schrire, V., MB ChB MSc PhD	Sr Lectr
Jackson, W. F. U., MA MD <i>Camb.</i>	Sr Lectr
Bronte-Stewart, B., MD	Sr Lectr.
Hoffenberg, R., MD	Sr Lectr.
Dowdle, E. B. D., MD	Sr Lectr.
Beck, W., MSc MMed	Lectr.
Saunders, S. J., MB ChB	Lectr.
Sougin-Mibashan, R., BSc MD	Lectr
21 Med. Practs.†	

Mental Disorders

Cheze-Brown, T. E	†Sr. Lectr
4 Assts	

Neurology and Psychiatry

Berman, S., MD <i>Lond</i> , FRCP	Sl. Lectr
Walton, H. J., MD	Sr Lectr
Ames, Mrs Frances R., MD	†Lectr
Buhrmann, M. U., MB ChB	†Lectr.
Clarke, M. R., MRCPEd	†Lectr.
Cooper, H., MD	†Lectr.
de Wet, J. S. du T., MD	†Lectr
McGregor, J. McW., MRCP	†Lectr
Wolff, S., MA BM <i>Oxon</i> .	†Lectr.
Saffery, W. A., MB ChB	†Lectr.

Obstetrics and Gynæcology

Louw, J. T., MB ChM, FRCOG	Prof
Massey, Patricia, MB ChB, FRCOG	†Sr. Lectr.
Buss, T. St. V., MB ChB, FRCOG	†Sr. Lectr.
Apthorp, J. O. E., MB ChB, FRCOI,	
FRCOG	†Sr. Lectr.
Charnock, F. N., MB ChB	†Sr Lectr.
de Villiers, D. P., MB ChB <i>Lav</i> ,	
FRCSed	†Sr Lectr.
Lipsitz, M.	†Sr Lectr.
Michael, A. M., MB ChB, FRCSEd	†Sr Lectr.
Rees, H. G	†Sr Lectr.
Resnick, L., MB ChB	†Sr. Lectr.
Louw, N., MB ChB MMed	†Sr. Lectr.
Naupe, F. K. te Water, Jr., MB ChB	
MMed	†Sr. Lectr.
5 Lectrs.†	

Ophthalmology

Townsend, R. L. H., BM BCh <i>Oxon.</i>	
BA	†Sr. Lectr
de Kock, J. K., MB ChB	†Sr Lectr.
Kay, B., MB ChB	†Sr. Lectr
Appleton, S. C., MB BS <i>Lond.</i>	Sr. Lectr.
6 Lectrs.†	

Orthopaedics

Allen, C. E. L., GM, MD *Rand*,
MChOrth *Liv*, FRCSEd
(Orthop Surg.) Pieter Moll & Nuffield Prof.
Commerell, J. J., MCh *Liv*, MB ChB,
FRCSEd †Sr. Lectr.
Sackin, T. L., MD Lectr.
Jones, B. S., MCh *Liv*, MD *Camb*,
FRCSEd Lectr.
8 Lectrs.†

Pathology and Bacteriology

Kipps, A., MD (Bacteriol.) Prof.
Thompson, J. G., MD ChB *Aberd* (Pathol.) Prof.
Uys, C. J., MD *Rand* Sr. Lectr.
Selzer, Golda, MB ChB Sr. Lectr.
Naude, W. du T., MSc *Stell*, MMed
ChB Sr. Lectr.
Don, Phyllis A., BA MB ChB †Sr. Lectr.
Campbell, J. A. H., MMed ChB Sr. Lectr.
Timme, A. H., MB ChB MMed Lectr.
Becker, W. B., MMed ChB Lectr.
17 Tech. Assts.

Plastic Surgery

Petersen, N. A. M., MB BS *Lond*, FRCS,
FRCSEd †Sr. Lectr.
3 other Lectrs.†

Public Health

Cooper, E. D., MD DPH *Glas*, FRFSPGlas
†Prof.
4 Lectrs.†

Radiology

..... (Radiodiag.) Prof.
Gneve, J. M., MB ChB *Glas*,
DMRE *Liv* Assoc. Prof.

Werbeloff, L., DMRE *Camb*, MB ChB

Todes, J. V., MB ChB *Rand* Sr. Lectr.
LeRoux, P. L. M., MSc Sr. Lectr.
Sealy, G. R. H., MA MMed ChB Lectr.

Surgery

Louw, J. H., ChM Prof.
Barnard, C. N., MMed MD MS PhD Sr. Lectr.
Forsyth, R. L., BA MB ChB, FRCSI †Sr. Lectr.
Sacks, G., BA MB BCh *Dub*, FRCS †Sr. Lectr.
Baigrie, R. D. H., BA MB ChB,
FRCSEd †Sr. Lectr.
Brown, A., MB ChB, FRCS †Sr. Lectr.
Chanock, L., MB ChB *Aberd*, FRCS †Sr. Lectr.
Heselson, J., MB ChB, FRCS,
FRCSEd †Sr. Lectr.
Katz, A., MB ChM, FRCS †Sr. Lectr.
Madden, P. C. W., BSc MB ChM †Sr. Lectr.
Malherbe, E. B., BSc MB ChM †Sr. Lectr.
Schurte, T., MA MB ChB, FRCS †Sr. Lectr.
Schulze, W., MB ChM, FRCS †Sr. Lectr.
Wilkie, W., MB ChM †Sr. Lectr.
Roberts, W., MMed ChB, FRCS Lectr.
12 Lectrs.† & Asst. Surgeons

Thoracic Surgery

3 Lectrs.†, 1 Asst.

Urology

Scher, S., MB BS *Lond*, MA †Sr. Lectr.
Currie, J. A., MB MS *Lond*, FRCS †Sr. Lectr.
5 Med. Practs.†, 1 Asst.

Vaccination

Gosling, D. C., MB ChB †Lectr.

Veneral Diseases

Cohen, L. †Lectr.

ADMINISTRATIVE AND OTHER STAFF

Public Relations Officer · D. Fourie, BA. Dir.
of Extra-Mural Studies · G. M. Sargeant, MA
Camb, BA. Accountant · P. G. McDonald, BA
S.A. Hon. Sec. of Appts. Cttee. · Prof. R. E.
Lighton. Asst. Registrar · L. P. Faber, BA *S.A.*
Asst. Accountant · L. Read. Chief Cttee. Clerk ·
D. W. Webster, BA *Oxon* Chief Clerk Accts. ·

P. W. Lee. Exams. Clerk · Doris E. MacDonald.
Bookkeeper · Ivy M. Layton. Sr. Clerks · D. S.
Cooper, BA, M. G. Hibbard; H. G. Heyden-
rych, BA *ECom*. Sr. Cttee. Clerk · B. A. A.
Riordan. Records Clerk · E. E. Bosworth.
Cttee. Clerk · R. N. Horton. Clerks · J. M.
Botha; A. N. O'Connor.

GENERAL INFORMATION

The South African Coll., founded in 1829 as a private venture by the churches and citizens of Cape Town and its neighbourhood, was until 1874 a combined primary and secondary sch. with a tiny univ. section at the top. Although the coll. had always had a senate, it was only in 1879 that the governing power passed from the body of shareholders to a council. In 1887 College House, the first univ. residence south of the Sahara, was opened and in the same yr. the general admission

of women was granted. Courses in law were added to the arts and sci. courses. From 1900 to 1918 the coll. expanded. There were the beginnings of the schs. of med., engin., and educn., the opening of the first women's residence and finally the incorporation of the coll. in the univ. which was created by Act 14 of 1916 and came into legal existence on April 2, 1918. The council took over a bequest by Sir Julius Wernher of £250,000 and a donation of equal amount from Sir Otto Beit,

who added £50,000 to a lapsed bequest by Mr Alfred Beit.

A site for the univ was provided by govt at Groote Schuur, Rondebosch. Over the past 40 yrs this has been devel (see 'Univ Precinct and Location', *below*) by the erection of tutorial bldgs, several student residences and the Jameson Memorial hall. The univ has expanded through the incorporation of the S A Coll of Music, the creation of facs of comm, soc sci, fchs of African studies, fine art and archit. and the growth of existing facs. Further land adjacent to the site has been purchased and med. bldgs. erected. Greater expansion is envisaged in view of the post-war increase in population and rapid scientific developments.

CONSTITUTION The hd of the univ is the chancellor, the chief academic officer is the principal, who is *ex-officio* vice-chancellor, the governing body is the council, which consists of the principal (*ex officio*), 5 members nominated by the govt., 6 members elected by convocation, 3 by the old students' constituency, 1 by the diocesan coll. constituency, 3 profs by senate, and 2 members elected by Cape Town corporation. The control and management of discipline and instruction within the univ is in the hands of the senate, which consists of the principal, the profs, 2 members elected by the council and 2 assessor members elected by the lecturers' assocn. of the univ.

Convocation, which consists of the profs and lectrs of the univ and its grads., elects the chancellor, 6 members of the council, and a pres of convocation; it may discuss any matter relating to the univ, and may communicate directly with the council or the senate.

INCOME The total revenue for the year 1960 was £1,058,279 (govt grants, 64.1 per cent; fees, 33 per cent; endowments, etc., 2.9 per cent).

FACULTIES Arts, comm., educn., engin., fine art & archit., law, med., music (incl. ballet and opera schs.), sci and soc. sci. Deans, except of fac. of med., are apptd. annually.

UNIVERSITY PRECINCT AND LOCATION The main bldgs., designed chiefly by Sir Herbert Baker, are set on the Cecil Rhodes estate, Groote Schuur, against the background of the eastern slopes of Table Mountain and Devil's Peak, approx. 5 mls from Cape Town. The site commands a superb view. These bldgs. house all facs except comm., med. and music, which are situated, respectively, in Cape Town, Mowbray (2 mls from the main bldgs.) and Rosebank (3 mls from the main bldgs.).

LIBRARY 330,000 vols., 35,000 pamphlets. Includes med. libr. (41,000 vols.); music libr.—books (4,500), scores (19,000) and records (6300); archit. libr. (6700 vols.); Van Zyl law libr. (early

Roman-Dutch law) and Bolus bot. libr. The Bolus herbarium includes the Guthrie collection of Cape flora.

TEACHING HOSPITALS Groote Schuur H., Cape Peninsula Maternity H., Mowbray Maternity H., Red Cross War Memorial Children's H. and certain wards in Somerset H.

ADMISSION TO SOUTH AFRICAN UNIVERSITIES* The qualif. for entrance to a course of study for a first degree of any univ. in South Africa is the matric. cert. of the Joint Matric Bd. for the nine univs. in South Africa, or a cert. of exemption issued by that bd. A successful candidate at the matric. exam. may be awarded *either* a sch. leaving cert. or a matric. cert., depending upon the subs. passed, the standards attained in specific subs., and aggregate marks. The sch. leaving cert. is not an entrance qualif. for a course leading to a degree, although it may be accepted by the univs. for admission to courses of study leading to certain dipl. and certs.

Approved subjects for the matric. exam. The list of approved subs. is as follows:

Section A. (1) Afrikaans (H. or L.), (2) Engl. (H. or L.), (3) Nederlands (H. or L.), (4) German (H. or L.), (5) Bantu langs (H. or L.), (6) Latin, (7) Greek, (8) French, (9) Hebrew, (10) Portuguese, (11) Italian, (12) maths; (13) phys. sci. (not to be taken with 14 or 15), (14) phys.; (15) chem.; (16) biol. (not to be taken with 17 or 18), (17) bot., (18) zool., (19) geol., (20) geog.; (21) hist.

Section B. (22) agric.; (23) housecraft & hygiene, (24) book-keeping & comml. arithmetic, (25) shorthand & typewriting; (26) addnl. maths. (may not be taken without maths); (27) mechanics (may not be taken with phys. or without maths); (28) art; (29) music; (30) book-keeping [as from Nov/Dec. 1963] (not to be taken with 24).

No lang. may be taken on both the higher and the lower grade.

Candidates are required to take, at one and the same exam., not fewer than 6 or more than 7 subs., and to pass in not fewer than 5 subs. with not less than 33½ per cent in each of the 5, and obtain a fixed min. aggregate, the aggregate for the matric. cert. being 1000 marks and that for the sch. leaving cert. being 800 marks. Candidates so passing obtain *either* sch. leaving certs. if the subs. passed incl. (i) an official lang. (i.e. Engl. or Afrikaans) on the higher grade and (ii) another lang., or *matric. certs.*, if the subs. passed incl. 4 subs. in each of which the candidate has obtained the matric. standard of 40 per cent, viz. (I) an official lang. (i.e. Engl. or Afrikaans) on the higher grade, (II) the other official lang., on the higher or lower grade, or an approved Bantu lang. on the higher grade or Latin or Greek or French or

* A full and official statement of the matric. requirements of the South African univs. is contained in the annual *Matric Exam. Handbook* publi. by the Joint Matric Bd., P.O. Box 392, Pretoria, South Africa. Full details of each univ.'s fac. and deptl. prerequisites, which are addnl. to the Joint Matric Bd.'s requirements, should be obtained direct from the registrar of the univ., not from the Joint Matric Bd.

§ H.=higher grade, L.=lower grade.

German or Italian or Portuguese or Hebrew, (III) maths or a sci., (IV) maths if not taken under (II) or another lang. from (II) or hist or geog. or a Bantu lang. on the lower grade (provided that a Bantu lang. on the higher grade has not been offered under (II)) or other lang. in which the bd. decides to conduct an exam. Candidates who are awarded a matric. cert. must have *either* (i) included in their 4 subs maths or an approved lang. other than Engl or Afrikaans or (ii) taken maths or an approved lang. other than Engl or Afrikaans as a 5th subj. and obtained not less than 33½ per cent. of the total marks. *Note* (i) a candidate whose home lang. is a Bantu lang. may present a recognized Bantu lang. in lieu of Engl or Afrikaans (higher grade) under (I) above. In such cases both Engl and Afrikaans must be passed on at least the lower grade. Likewise a candidate whose home lang. is German, who is attending sch. in S-W Africa and whose parents are/were domiciled in S-W Africa, may present German (higher grade) in lieu of Afrikaans or Engl (higher grade). In such cases the candidates must *enter* for both Engl and Afrikaans, one of which must be on the higher grade, and *pass* in both Engl and Afrikaans on at least the lower grade (a mark between 30 per cent. and 39 per cent. in the higher grade being recognized as equivalent to 40 per cent. on the lower grade) (ii) As from Nov./Dec. 1963 an approved lang. other than Engl. or Afrikaans will be defined as Latin, Greek, French, German or an approved Bantu lang. (iii) As from Nov./Dec. 1962 a candidate must have passed in *either* 2 langs plus maths. or 3 langs if he does not pass in maths.

The four provincial depts of educn in the union (Cape, Natal, Orange Free State and the Transvaal), and the Dept of Educn, Arts and Sci., conduct exams for a sr cert. on syllabuses approved by the bd. These exams are recognized by the bd. for exemption from its own matric exam subject to conditions prescribed by the bd.

Faculty and departmental requirements Although the bd's matric cert. or cert. of exemption is the normal requirement for admission to a univ., certain subs are prescribed by the univs. as prerequisites for enrolment in some depts or facs. A student is advised to have a broad general educn and to take for the matric cert. at least 2 of the subs, maths, Latin, Greek, French, German, in addn to both official langs, *sc* Afrikaans and Engl. Maths is essential for agric, archit, engin, for, med. and quantity surveying, and highly desirable for courses in accty, land surveying and sci. A knowledge of Latin of matric standard is necessary for law. Further particulars of fac and deptl requirements should be obtained direct from the registrars of the individual univs, *not* from the Joint Matric. Bd.

Overseas examinations The bd. recognizes for purposes of exemption sch. certs. issued by a number of overseas bodies if the certs. entitle the holder to unconditional admission to an approved univ. in the country of origin and the subs. passed

and the standard attained are in accordance with the bd's regns. for its own matric. cert. As examples, a credit in a subj. for the Cambridge Overseas Sch. Cert. is accepted as equivalent to a '40 per cent. pass', and a pass in a subj. for the Higher Cert. of the Oxford & Cambridge Schs. Exam. Bd. and a pass at ordinary level in the General Cert. of Educn. are similarly accepted. Exemption is given subj. for subj. (Engl. lang. but not Engl. lit., is recog. as fulfilling the requirement for exemption from Engl.) The bd. is, however, not prepared to recognize a Bantu lang. of the Cambridge Overseas Sch. Cert. as equivalent to a Bantu lang. at a South African exam. The bd. may issue either a cert. of full exemption or a cert. of conditional exemption which may be converted into a cert. of full exemption if the holder fulfils specified conditions within a prescribed time. For full exemption on the strength of the Cambridge Overseas Sch. Cert. or the General Cert. of Educn., the bd's requirements include passes in 2 subs. at principal or advanced level.

Overseas qualifs. recog. by the bd. incl. the Sch. Certs. awarded by each of the 9 examining bodies in England and Wales recog. by the Ministry of Educn. for England and Wales (*see below*); the General Certs. of Educn. awarded, in and after 1951, by the same 9 examining bodies, the Higher Sch. Certs. of 6 of these examining bodies (*sc* Oxford & Cambridge Schs. Exam. Bd., Northern Ir. Matric. Bd.; London Univ.; Oxford Local Exams. Delegacy; Univ. of Cambridge Local Exams. Syndicate, Central Welsh Bd.), inter. exam., 1st class, of Indian univs., matric. or other entrance cert. of other approved univs., leaving cert. of educn. depts or secondary schs. entitling holder to admission to an approved univ., leaving certs. of educn. depts of Scotland and Ire., Sr. Cert. of Educn. Dept., N. Ireland, Forces Prelim. exam.; Passing-out exam. of Royal Naval Coll., Dartmouth, Hoof-dakte (Holland); eenddiploma of a gymnasium or hogere burgerschool with 5 yrs' course (Holland); Akte van Bekwaamheid als Hoofddiend-wijzer (Holland); dipl. of the Technische Hogeschool (Delft); eenddiploma of the Middelbare Technische Sch. (Holland), eenddiploma of the Middelbare (or Koloniale) Landbouwschool (Holland), eenddiploma, gymnasium, Holland, dipl. of the École Supérieure de Jeunes Filles, Switzerland, abiturium at a gymnasium or oberrealschule in Germany or Switzerland; maturitäts-zeugnis or zeugnis der reife at gymnasium or oberrealschule in Germany or Switzerland; baccalauréat (Bès Lettres, or Bès Sciences or Bès Droit), France, Italian licenza di maturità classica and licenza di maturità scientifica, matric. cert. of the Ministry of Educn. & Culture, Israel, cert. of the 3rd cycle of a Portuguese lyceum; Greek apolytrion.

Special exemption. Non-matriculated candidates over the age of 25 who desire to proceed to a degree and are not eligible for exemption under the ordinary regns. may, under certain conditions, be specially exempted from matric. on the recommendation of a univ. Such candidates cannot be

admitted to a degree unless they have not only completed the curriculum for the degree but have also fulfilled any other conditions for exemption from the matric exam.

FIRST DEGREES. 3 yrs.—BA (4th yr for hons in any of following: archaeol., Bantu langs., classics, compar. African govt & law, econ., Engl. lang & lit., French, geog., German, Greek, Hebrew, hist., Latin, maths., Nederlands & Afrikaans, philos., psychol., soc. anthropol.), BA (art), BA (music), BSocSc, BSc (pure sci.) (4th yr for hons. in any of following: astron., bot., chem., geochem., geog., geol., maths., phys., physiol., psychol., zool.), BCom, 4 yrs.—BA (Fine Art), BMus, BSoc(ChemEng), BSc(Eng), BSc(Land Surv), 5 yrs.—LLB, 6 yrs.—MB ChB, BArch.

HIGHER DEGREES. MA, MArch, MA (fine art), MSocSc, MSc, MCom, 1 yr., BEd, 2 yrs., after approved bachelor's degree; MEd, 2 yrs., after approved master's or equivalent degree, MMed (in various specialities), ChM, MD, open to grads. of at least 4 yrs' standing. The MA, MSc, MSc in engin. and MCom courses are open to grads. of any approved univ., so also are courses for the PhD (open to bachelors of at least 3 yrs' standing), DSc (open to bachelors of at least 5 yrs' standing) and DLitt (open to bachelors of at least 8 yrs' standing), for which attendance for 2 yrs. may be required. The MCom is open to BComs of 3 yrs' standing. The LLB is open to LLBs of 2 yrs' standing; the LL.D. is open to LLBs or LL.Ms of 2 yrs' standing.

HONORARY DEGREES. Any of the degrees mentioned above may be conferred as honorary degrees.

DIPLOMA COURSES. 1 yr.—African govt. & law (lower dipl.), analyt. chem., librarianship, nursing, pub. health (postgrad.); 2 yrs.—African govt. & law (higher dipl.), 3 yrs.—comm., educn., fine art, music, physiotherapy, speech & drama, soc. scis., 6 yrs.—archit., quant. surv.

CERTIFICATE COURSES. 1 term postgrad.—exploration geochem., 1 yr. postgrad.—secondary teacher's, 3 yrs.—comm. art, fine art, higher primary teacher's, music, soc. work, speech trg.

OTHER COURSES. Classes for students in agric., theol. and vet. sci. progressing to graduate in those subjects elsewhere.

FEES. The annual academic fee covers all charges for a student's registration, classes and labs., ordinary univ. exams., graduation, library, athletics, students' socs. and, in the case of med. students, hosp. fees for clin. instrcn. In those degree courses where there is a choice of subjects the fee is charged per course taken. For courses where there is ordinarily no choice of subjects the fee is uniform throughout the normal duration of the course. BA and BSocSc, R56 p.a. per non-acc. course, max. R192 for a 1st yr. curriculum which incl. only 1st courses, BA (Fine Art), R164 p.a.; BSc, R68 p.a. per course, max. R420 for a 1st yr. curriculum which incl. only 1st courses; BArch,

R12 p.a. for 4 yrs., R56 for 5th yr., R104 for 6th yr. BEd, R156 p.a.; LLB, for 4th & 5th yr. curriculum, R168 p.a., MB ChB, 1st yr. as for BSc, 2nd and subsequent yrs., R232 p.a., BMus, R180-R240 p.a., BCom, R56 p.a. per course, max. R192 for a 1st yr. curriculum which includes only 1st courses; BSc(Eng), BSc(ChemEng), BSc (LandSurv), R212 p.a., master's degree—arts, R188 over 2 yrs., engin. and sci., R36 p.a. plus addnl. R24 when thesis is submitted; educn., R106 p.a., archit. and fine art, R80 p.a.; law, R54 p.a., med, R68 p.a., doctor's degrees PhD, R36-R84 p.a.; MD, R68 p.a., others, R36-R96 p.a.

ACADEMIC YEAR. March to Dec., 2 terms of 18 weeks each.

THE LANGUAGE OF INSTRUCTION is English.

'OPEN' ENTRANCE AWARDS. A Jagger scholop of the annual value of R400, tenable for 3 (or possibly 4) years subject to satisfactory conduct and progress, is offered to a student from Gt. Britain proposing to take his degree at the Univ. of Cape Town.

'OPEN' POSTGRADUATE AWARDS. S. A. C. Croll scholop, R600 p.a. for 2 yrs., Smartt Memorial scholop (in agric.), R700 p.a. for 2 or 3 yrs.

RESIDENCE. Fee for bd., residence and laundry, R320 p.a. Fuller Hall (215 women), warden—Mrs Doris S. Emmett, BA *Manc.*, Smuts Hall (217 men), warden—Prof. G. H. Menzies, BSc, College House (120 men), warden—W. T. Ferguson, MA MEd; University House (89 men), warden—Prof. T. W. Price, MA LL.D. PhD *Camb.*; Medical Residence (89 men), warden—R. L. Forsyth, BA MB ChB, FRCSI, Driekopp (240 men), warden—S. Skewes, PhD *Camb.*, MA BSc, Baxter Hall (198 women), warden—Mrs Joan H. van den Ende, BSc.

EXTRA-MURAL STUDIES. The bd. of extra-mural studies is responsible for the orgn. of vacation courses, week-end conferences, courses corresponding to those given for the W.E.A., extension lectures in town and country, and courses in citizenship and other current topics.

STUDY LEAVE AND FURLOUGH. Members of permanent academic staff are eligible for study leave and furlough after each cycle of 6 yrs' continuous service, i.e. 3 mos. full pay and 3 mos. half pay for either study leave or furlough, and if taken together 6 mos. full pay and 6 mos. half pay.

STUDENTS' HEALTH SERVICE. Every student is required to pay an annual fee of R2. Privileges include a full med. exam. each yr. and payment of half of doctor's account up to a max. of R50 p.a. When med. attention is necessary a student may consult any general practitioner.

APPOINTMENTS BOARD. A cttee. representative of the several facs. assists grads. seeking employment.

STUDENTS' VISITING LECTURERS FUND. Administered by cttee. consisting of students nominated

by students' representative council together with reps. of univ. senate. Object: to bring to the univ. visiting lectrs eminent in their specific fields and capable of providing cultural stimulus through their contacts with students and staff. To pay for travelling and living expenses of the lectrs and the orgn. and admin. expenses of the ctee, all registered students are charged R1 p a

PUBLICATIONS *Calendar* (Dec.), students' repve council's *Groote Schuur, Annals of the Bolus Herbarium; Report on Publications and Res. in the Univ., 1957-1959; The History of South African College, 1829-1918*, by Prof. W. Ritchie (2 vols.: Maskew Miller, Cape Town); *The S.A. College and the Univ. of Cape Town, 1829-1929*, by Prof. E. A. Walker

THE YEAR 1960

PRINCIPAL BENEFACTIONS Estate of Mrs Mary F Bremner, £76,529, estate of W D Baxter, £249,075, estate of M M Tippetts-Aylmer, £10,154; Tvl & OFS Chamber of Mines, £10,000 for promotion of work in geochem

(Total value of all benefactions received. £354,346)

MAJOR BUILDING DEVELOPMENTS Bldgs completed extensions to depts of geol and zool

NEW DEPARTMENTS AND CHAIRS. Dept & chair of geochem

RETIREMENTS Margaret I Murray (educn.); R Stubbs (archit.), J H Sutton (chem); H. C. G. Vincent (geol).

RESIGNATIONS D V Cowen (compar. law), to chair of law, Chic.; G G. Elliott (engin.), apptd to govt post, J D Fernie (phys.), to post at Tor., A Gonski (neurosurg.), to post at new med. sch, Syd, A Helfet (orthopaed surg.), apptd hd, dept. of orthopaed, Albert Einstein Med Coll, NY, B. L. Hyman (classics), apptd asst prof. of classics, Manit, J. Irving (phys.), apptd. to chair of nat. philos., Glas, W E Isaac (bot.), to chair of bot., Royal Coll, Nairobi, C Merskey (med.), to post at Albert Einstein Med Coll, NY, T B. McMurray (orthopaed surg.), to post at new med. sch., Syd, S. P. Olivier (educn.), apptd. rector, Univ. Coll for Indians, Durban, D B Sears (maths.), to chair of maths, Royal Coll, Nairobi, L M Thompson (hist.), apptd to chair of Afr hist, Calif

DEATHS. B. J. Krygsmann (assoc. prof of zool); L Mirvis (st lectr in med)

HONORARY DEGREES LLD—E. G. Malherbe, principal, Natal MSc—A C Harrison, zoologist.

* Students not attending full degree, diploma or certificate courses are classified as part-time students

Statistics

STUDENT NUMBERS, 1961

(as at the beginning of the academic year)

	Full-Time	Part-Time *
Men	3493	146
Women	1364	400
Total	4857	546

Distribution by Faculties Arts, 938, comm., 829; educn, 261, engin, 652; fine art & archit, 476, law, 139, med., 794, music, 593, sci., 581, soc sci, 140 Total 5403

Included in the figures above are —

Postgraduate students, 376.

New admissions, 1710.

Students from other countries, 691. (Countries from which largest numbers came. Fed. of Rhodesia & Nyasaland, 605, U.K., 23, High Commission Territories, 15, Kenya, 13)

DEGREES AWARDED (1960) Arts. BA, 140, BA (hons), 20, MA, 4 Comm BCom, 33; MCom, 1 Educn BED, 6 Engin BSc(Eng), 76; BSc(ChemEng), 18, BSc(LandSurv), 5 Fine art & archit. BA(FineArt), 5; BArch, 20 Law LLB, 22 Med MB ChB, 81, MMed, 10, MD, 6 Music BMus, 1. Sci BSc, 112, BSc (hons), 28, MSc, 2 Soc. sci BSocSci, 16 PhD (all facs) . 13

DIPLOMAS AWARDED (1960) Jr sec teacher's, 9, law, 13; libr, 15, archit., 4; quant surv, 10, fine art, 1; pub health, 2; speech & drama, 8; teacher's lic dipl in music, 15; performer's dipl in music, 2, physiotherapy, 6, nursing, 6, soc sci, 1

CERTIFICATES AWARDED (1960) Sec teacher's, 54; grad primary teacher's, 5, higher primary teacher's, 35, teachers of children handicapped in speech & hearing, 2, teachers sp. classes, 1, higher cert libr, 18, libr, 17; architect, 1, att admission, 9, comml art, 9, theory of accty, 36; music, 1, teacher's cert. in ballet, 11, prim. teacher's spec. endo in fine art, 2, prim. teacher's spec endo in music, 2

UNIVERSITY OF NATAL*

Incorporated 1949, previously established as Natal University College, 1909

Postal Addresses :

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(Cables and Telegrams University Durban, Telephone 58561)

P O. Box 375, Pietermaritzburg, South Africa

(Cables and Telegrams University Pietermaritzburg; Telephone 2-2385)

CHANCELLOR—Hon D. G. SHEPSTONE, Hon LLD

PRINCIPAL AND VICE-CHANCELLOR—E. G. MALHERBE, BA Cape, MA Stell., PhD Col., Hon. LLD Camb., Melb., McG & Cape T.

CHAIRMAN OF COUNCIL—G. G. CAMPBELL, MB ChB LLD Edin, FRCSed, FRSSAF

PRESIDENT OF CONVOCATION—A. GOLDBERG, BA S.A., MA Oxon.

REGISTRAR—P. G. LEEB-DU TOIT, BCom S.A.

ACCOUNTANT—A. J. LYLE, BCom S.A.

FINANCE OFFICER—E. L. BEYERS, BCom S.A.

DIRECTOR OF LIBRARY SERVICES—S. I. MALAN, MA S.A.

TEACHING STAFF

[Allocated between Durban=D and Pietermaritzburg=P]

[†=Part-Time]

Accounting and Auditing (D & P)

Fairbairn, W. J. G., FSAA Prof (D)
Waldeck, T. J. H., MCom S.A. Sr Lectr (D)
Simons, A. F. S. Sr Lectr (D)
Eggers, H. C., BCom Sr Lectr (D)
Armstrong, J., BCom Pret & Natal Sr Lectr (P)
Skinner, N. L. C., BEcon S.A., BCom Sr Lectr (P)
5 Lectrs.† for professional accty. classes

Afrikaans and Nederlands (P & D)

Nienaber, G. S., MA MEd S.A., LittD Ghent Prof (P)
Grobler, P. du P., MA S.A., PhD Sr Lectr (D)
Nienaber, C. J., MA S.A., DoctLitt Amst., DLitt Pret. Sr Lectr (P)
van der Walt, P. D., MA S.A., DLitt Potchef Sr Lectr (D)
Botha, T. J. R., BA Stell., MA Pret. Lectr (D)
Nienaber, Mrs Willemina, LittDra Amst. Lectr. (P)
Lectr. (P)

Agriculture, see below

Architecture and Quantity Surveying (D)

Connell, P. H., BArch Rand Prof.

Croft, L. T., BArch Ltv., DipITP Rand Sr. Lectr.
Dick, C. R. S., BSc(QS) Pret Sr. Lectr.
Biermann, B. E., BArch PhD Cape T. Lectr.
Lewcock, R. B., BArch Cape T. Lectr.
Brandt, Hope D., BAFineArts S.A. Lectr.
Dyke-Wells, D. N., BArch Rand Lectr.
Goldman, G. C., BArch Rand, DipITP Lond Lectr.
Tollman, E., DipITP Lond, BArch 3 Lectrs † for professional classes Lectr.

Bantu Language, see Soc Anthropol

Botany (P & D)

Bayer, A. W., DSc S.A. Prof. (P)
Meidner, H., PhD Lond. & Natal, MSc Sr. Lectr. (P)
Gordon-Gray, Kathleen, MSc S.A., PhD Lectr. (P)
Lectr. (D)
Meyer, M. A., BSc Rhodes Lectr. (P)

Chemistry and Chemistry Technology (P & D)

Warren, F. L., DIC, PhD DSc Lond., FRIC Prof. (P)

* Member of the Association of Universities of the British Commonwealth

Valentin, F. H. H., BSc *Edin*, MSc *Rand*,
PhD, FRIC Prof. (D)
Schreiner, G. D. L., BSc *Rand*, PhD *Camb*.
Prof. (P)
Bayles, J. W., DPhil *Oxon* Prof. (D)
Candy, H. A., MSc *S.A.* Sr Lectr. (D)
Higgins, T. H. F., MSc PhD Sr Lectr. (D)
Parris, S., MSc Lectr. (D)
Goosen, A., MSc Lectr. (P)
Verbeek, A. A., MSc Lectr. (P)
Jeffs, P. W., PhD Lectr. (P)
Helfer, W. E., MSc Lectr. (D)
Hawkesworth, W. A., MSc Lectr. (P)
Kyle, E., PhD *Camb*, BSc Lectr. (P)

Child Guidance Clinic (D)

Pechey, B. M., MA *S.A.* Dir.
Herbert, M., MA Asst Dir.
1 Sec, 2 Res Assts.

Classics (P & D)

White, K. D., BA *Lav*, MA *Camb* Prof. (P)
Farrer, B. H. P., MA *S.A.* & *Oxon* Sr Lectr. (P)
Hewitt, W. H., MA *Cape T.* & *Oxon*.
Sr Lectr. (D)
Whitley, S., MA *Oxon*. Lectr. (D)
Bucknell, P. J., BA *Lond*. Lectr. (P)

Commerce and Administration (D)

Kelly, T. H., MCom PhD *Birm* Prof.
Allan, I. K., BCom *S.A.* Sr Lectr.
Woods, I. R., BCom *Rand*, MCom Lectr.

Divinity (P)

Rooks, A. G., MDiv *S.A.*, CandTheol *Berl.* Prof.
Bredenkamp, V. I., BA *Rhodes*, MA *Oxon* Sr Lectr.

Drama, see Speech and Drama**Dutch, see Afrikaans and Nederlands****Economics (P & D)**

Horwood, O. P. F., BCom *Cape* Wm Hudson Prof. (D)
Hurvitz, N., MCom *S.A.*, DCom *Stell.*
Sr Lectr. (P)
Knox, Joan, BCom *Rand* Sr Lectr. (D)
Blondeel, E. E. E., BClassPhil Sr Lectr. (D)
LicHandFinWet *Antwerp* Lectr. (D)
Trotter, G. J., BA Lectr. (D)
Konczacki, Z., BSc(Econ) *Lond*, BEcon Lectr. (P)

Humphreys, A. S. B., BCom *Rand*,
MA *Camb* Sr Res Fellow (D)
Cooppan, S., BCom MA MEd PhD *Cape T.* Res Asst. (D)
Smith, E., BCom Res. Asst. (D)

Educational Psychology (P & D)

Schmidt, W. H. O., BA *S.A.*, PhD *Leip.* Prof. (P)

de Villiers, D. Z., MA PhD *Cape T.* Sr Lectr. (D)
Shiels, Florence H., BA *S.A.*, MEd *Pret.* Lectr. (P)

Educational Theory (P & D)

MacMillan, R. G., BEd MA *S.A.*, BSc
PhD *Rand* Prof. (P)
MacQuarrie, J. W., BA *Lond*, BEd *S.A.* Sr Lectr. (D)
Sr Lectr. (P)
Lectr. (P)

Engineering, see below**English (P & D)**

Gardner, W. H., BA PhD *Lond* Prof. (P)
van Heyningen, Christina, MA *Stell*,
BA *Oxon*, DLitt Sr Lectr. (P)
Sands, R., BA *Lond* Sr Lectr. (D)
Branford, W. R. G., MA *Camb*,
BEd *Cape T.* Sr Lectr. (D)
King, Sarah K., MA *S.A.* Sr Lectr. (D)
Notcutt, Elizabeth E., BA *Rhodes* Lectr. (D)
Gardner, C. O., BA *Oxon* & *Natal* Lectr. (P)
Paterson, Elizabeth, BA *Rhodes* & *Camb*,
MA Lectr. (P)
Dent, Margaret S., BA (on leave) Lectr. (D)
Berthoud, J. A., BA Sr Lectr. (P)
Hugo, F. J., BA *Rand* Lectr. (D)
Lectr. (D)
Lectr. (D)
Lectr. (D)

Experimental Physics (D)

Clarence, N. D., MSc *S.A.*, BA *Camb*,
PhD Prof.
Scott, H. W., MSc *S.A.* Sr Lectr.
Schoute-Vanneck, C. A., MSc *Cape T.*,
PhD *S.A.* Sr Lectr.
Martin, J. S., DPhil *Oxon*, MSc Sr Lectr.
Gay, L., BSc Lectr.

Fine Arts (P)

Heath, J. C. W. Prof.
Hooper, J. O. Sr Lectr.
Heath, Mrs Jane T. Lectr.
Ditchburn, Mrs Hilda L., BA *S.A.* Lectr.

French (P & D)

Tricaud, Marie L., L&L Dipd'ÉtSup
CertSecd'Ang *Paris* Prof. (P)
Laney, Y. H. R., Dipd'ÉtSup *Paris* Sr Lectr. (P)
Royle, P., BA *Oxon*. Lectr. (P)
Royle, Elizabeth A., MA *Edin*. Lectr. (P)
Cienaki, T., DPhil *Wrocton* Lectr. (D)
Temp Lectr

Geography (P & D)

Jehu, R. M., MSc <i>Wales</i> , FGS	Prof. (P)
Hobson, Peggie M., BSc <i>Lond</i> , PhD <i>St And.</i>	
	Sr. Lectr (D)
Williams, O., MA <i>Wales</i> , PhD	
(on leave)	Sr. Lectr (P)
Davies, R. J., MSc <i>Rhodes</i>	Lectr (D)
Daniel, J. B. McI., BA <i>Camb</i> , MA	Lectr. (D)
Tyson, P. D., BSc <i>Rand</i>	Lectu (P)

Geology (P & D)

King, L. C., DSc <i>N.Z.</i> , PhD <i>S.A.</i> , FGS	
FRSSAf	Prof (D)
Frankel, J. J., MSc <i>S.A.</i> , DSc <i>Cape T.</i>	
FRSSAf, FGS	Assoc Prof (D)
Matthews, P. E., MSc PhD	Sr Lectr. (D)
McCarthy, M. J., MSc	Lectr (D)
	Lectr (P)

German (P & D)

Schmidt-Ihms, Maria, PhD <i>Leip.</i>	Prof. (P)
	Lectr (P)
Stielau, Hilda I., MA	Lectr. (D)

History and Political Science (P & D)

Brookes, Hon E. H., MA <i>DLitt</i>	
Hon LLD <i>Cape T</i>	Prof. (P)
Horton, J. W., BA <i>Rhodes</i> , BLitt <i>Oxon</i>	
	Sr Lectr (D)
	Sr Lectr (P)
Prestwich, M. F., BA <i>Camb</i>	Sr Lectr (P)
Heard, K. A., MA <i>S.A.</i>	Sr Lectr. (D)
McIntyre, K. H. C., BA <i>Camb</i> & <i>S.A.</i>	
	Sr Lectr (D)
	Lectr (D)
Le Cordeur, B. A., MA <i>Rhodes</i>	Lectr (D)
	Lectr (D)
Webb, C., BA <i>Rand</i> & <i>Camb</i>	Lectr. (P)

Law (P & D)

Burchell, E. M., MA <i>Camb.</i> , LLB <i>S.A.</i>	
J. S. Wylie Prof. (P)	
	Prof. (D)
Seymour, W. G. M., BA LLB <i>S.A.</i>	
	Sr. Lectr. (P)
Mathews, A. S., BA	Sr. Lectr. (P)
Pain, J. H., BA LLB	Sr Lectr. (D)
Pape, D. L., BSc <i>S.A.</i> , LLB	Lectr. (P)
Shaw, E. G., BA LLB <i>S.A.</i>	Lectr. (D)
Copeling, A. J. C., BA LLB <i>Stell</i>	Lectr (D)
Farrer, G. B., BA LLB	Lectr. (D)
3 Lectrs †	

Mathematics, Applied (D & P)

	Prof. (D)
	Prof (D)
Schuddeboom, F. J., PhilCand <i>Ley</i> , MSc <i>Stell.</i>	
	Sr Lectr (D)
	Sr. Lectr (P)
	Lectr (D)

Mathematics, Pure (P & D)

Terpstra, F. J., DSc <i>Amst.</i>	Prof (P)
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Skinner, T. N. E., MSc	Sr Lectr (D)
Hill, C. K., MSc <i>S.A.</i> , BA <i>Camb</i>	Sr Lectr (D)
Nevin, B. M., MA	Sr. Lectr. (P)
Liberman, E., MSc <i>Rand</i>	Sr Lectr (D)
Watson, G. R., BSc <i>Manc</i>	Lectr (P)
Grasser, H. S. P., BSc <i>Stell.</i>	Lectr (D)
...	Lectr (P)

Native Administration, see Soc Anthropol

Nederlands, see Afrikaans and Nederlands

Philosophy (D & P)

Jensen, O., MA <i>Edin</i> , DPhil <i>Rand</i>	Prof (D)
Conradie, Anna L., PhD <i>Cape T</i>	Sr Lectr (P)
Brummer, V., MA <i>Stell</i> , DPhil <i>Utrecht</i>	
	Lectr (P)
Neser, Margaret, MA <i>Liv</i> , BA	Lectr (D)

Physics (P & D)

Farbrother, J. A. V., BSc <i>Lond</i> , PhD <i>R'dg</i> , FIP	Prof. (P)
Eagle, B. A., BSc <i>Rhodes</i> , MA <i>Camb</i>	
	Sr Lectr (P)
Raab, R. E., DPhil <i>Oxon</i> , BSc	Sr Lectr (P)
	Sr Lectr (P)
Cato, G. C., MA <i>BD Aberd</i>	Lectr (D)
Driver, A., MSc <i>Rhodes</i>	Lectr (P)
Goedeke, W. H., MSc	Lectr (P)

Political Science, see History and Political Science

Psychology (P & D)

Pratt-Yule, Ella T., MA PhD <i>St.And.</i>	Prof (P)
Albino, R. C., MA <i>S.A.</i>	Sr. Lectr (D)
Murray, C. O., MA	Sr Lectr (D)
Cowley, J. J., MSc	Sr. Lectr. (P)
Bloom, L., BSc <i>Lond</i>	Lectr. (D)
	Lectr (P)
Mann, J. W., BA <i>Rhodes</i> , MA <i>S.A.</i> , PhD	Lectr (D)

Social Anthropology, Native Administration and Bantu Languages (D)

Krige, Mrs Eileen C. B. J., MA	
DLitt <i>Rand</i>	Prof
Kuper, Hilda, BA <i>Rand</i> , PhD <i>Lond</i>	
(on leave)	Sr Lectr.
Cope, A. T., MA	Sr Lectr
Trapido, S., BA <i>Rand</i>	Lectr.
Torres, J. L. R., BA <i>Cape T</i>	Lectr.
Malcolm, D. McK., BA <i>S.A.</i>	Temp Lectr
Mangoela, G. L.	African Lang Asst.

Sociology and Social Work (D)

Kuper, L., BA LLB <i>Rand</i> , MA(Soc) <i>N Carolina</i> , PhD <i>Burm</i>	(on leave) Prof.
Jooste, C. J., MA DPhil <i>Stell</i>	Sr. Lectr
Shaw, Frances C., MSW <i>McG</i> , BA(SS)	
	Sr Lectr
Dickie-Clark, H. F., BA <i>Rhodes</i>	Lectr
Waldeck, Martha H., BA(SS) <i>S.A.</i>	Lectr.

Currin, Theresa E., BSocSc

Lectr.
Lectr.
Social Worker**Biometry**Rayner, A. A., MA N.Z., PhD *Edin.*
Muller, E.-R., BScAgric
Du Toit, P. S., BScAgricProf.
Lectr.
Lectr.**Speech and Drama (D & P)**Sneddon, Elizabeth, MA *Glas*
Wilson, Mrs Joan
Robertson, Mrs Pamela E. C., MA
Scholtz, P., BA
Bamford, Rosemary A., BA
Orton, R., BAProf (D)
Lectr (D)
Lectr (D)
Lectr (D)
Lectr. (P)
Lectr. (D)**Dairy Industry**Abbott, C. W., BScAgric *Pret*, MSc
PhD *Iowa State*
Stiles, M. E., MScAgric
Hinch, Helen, BScAgric *Nott*Prof
Lectr.
Lectr.**Surveying (D)**Biesheuvel, H., BSc(Survey) *Cape T.*
Scogings, D. A., BScSur
Angus Leppan, P. V., BSc(Eng) *Rand*,
PhD
McManis, P. E., DipArch DipTP *Edin.*Prof.
Sr Lectr.
Sr Lectr.
Sr. Lectr.**Entomology**Oosthuizen, M. J., BScAgric *Pret.*,
PhD *Mum.*
Bozman, T., BScAgric *Pret.*, PhD *Lond.*
Fletcher, D. J., BScAgricProf
Sr. Lectr
Lectr.

Jones, B. M., MScSur

Sr. Lectr
Lectr**Genetics**Weyers, W. H., MScAgric *Stell.*, PhD *Wit.* Prof.
Gildenhuys, P. J., MSc *S.A.* Sr. Lectr.**Zoology (P & D)**Bush, S. F., MSc *S.A.*, DPhil *Oxon.*,
FRSSAfProf (P)
Sr Lectr (P)
Lectr. (D)
Lectr (P)
Lectr. (P)
Lectr. (P)**Horticulture and Forestry**le Roux, J. C., BScAgric *Stell.*, MSc *Calif* &
Hawan
Allan, P., BScAgric PhD
Wolstenholme, B. N., BScAgricProf.
Sr. Lectr.
Lectr.**AGRICULTURE (P)****Agricultural Economics**Behrmann, H. I., MScAgric *Pret.*, PhD Prof
... Sr Lectr
Lectr.**Agricultural Engineering**Vorster, P. J. C., DIC, BScAgricEng *Pret.* Prof.
Meiring, P., BScAgricEng *Pret.* Sr. Lectr
... Lectr**Agronomy**Hulme, S. A., MScAgric *Stell* Prof.
Human, I. J., MScAgric *Pret.* Sr. Lectr
Nathanson, K., BScAgric *Pret* Sr. Lectr
Kritzing, J. H., BScAgric *Stell* Lectr**Animal Husbandry, Poultry Husbandry and Animal Diseases**Kotze, P. L., MScAgric *Pret* Prof.
Bishop, G. P., BVSc *Pret* Sr. Lectr
Wessels, J. P. H., MScAgric Sr Lectr.
Hunter, G. L., PhD *Camb*, BScAgric Sr. Lectr.
Stielau, W. J., MScAgric Lectr.
Human, J. B. B., BScAgric *Pret.* Lectr**Biochemistry**Quicke, G. V., MScAgric *Pret.*, PhD *Wis.* Prof.
de Wit, J. L., MSc *Pret.*, DrPhil *Utrecht*
... Sr Lectr
Lectr.**ENGINEERING (D)****Architecture and Quantity Surveying,**
see above**Chemical Engineering**Valentine, F. H. H., BSc *Edin*, MSc *Rand*,
PhD, FRIC Prof
... Sr Lectr
Egenes, R. J. J., BScChemTech Lectr.

Civil Engineering

Daymond, J R, MScEng <i>Wales</i> , MICE	Prof
Norman, D G, MScEng <i>S A</i>	Sr. Lectr.
Ventress, R G, BSc(Eng) <i>Lond.</i>	Sr. Lectr.
Fleming, C. J, BScEng	Sr. Lectr.
Sparks, A. D. W., BScEng	Lectr.

Electrical Engineering

Phillips, W. E, DScEng <i>S A</i> , Hon LLD <i>Alta</i> , MIEE	Prof
Hellawell, R A, MScEng	Sr. Lectr.
Horn, R. P. S, MScEng	Sr. Lectr.
Natras, H. L, MScEng	Lectr.
Michel-Smith, J. E. P., BScEng	Lectr.
..	..

Mechanical Engineering

Gould, A. J, PhD <i>Camb</i> , DSc <i>Lond.</i> , MIMEche	Prof.
..	Sr. Lectr.
Reed, M, BScEng <i>S A</i> , MScEng PhD	Sr. Lectr.
Sutcliffe, H. B., BSc <i>Edm.</i>	Sr. Lectr.
Ward, J. J.	Lectr.
..	Lectr.

Surveying, see above

MEDICINE (D)**Anatomy**

Keen, E N, MD <i>Cape T.</i>	Prof
Beiles, A, MB BCh <i>Rand</i> , FRCSEd	†Lectr.
Kane, G. J., FRCS	†Lectr.
Rafferty, J. D., BSc <i>Rand</i> , DPhil <i>Oxon.</i> , FRCS	†Demr.

First Aid

Knowles, H. R., MB ChB <i>Cape T.</i>	†Lectr.
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Forensic Medicine

Robertson, I, MB ChB <i>Cape T</i>	†Sr. Lectr
Segal, A., MB BCh <i>Rand</i>	†Sr. Lectr.

Gynaecology and Obstetrics

Crichton, D., MB ChB <i>Cape T</i> , DPhil <i>Oxon</i> , FRCSEd, FRCOG	Prof.
Boulle, T. P., MB ChB <i>Cape T</i>	Sr. Lectr
Taylor, A. B., BA MD <i>Vermont</i> , Hon. PhD, FRCSEd	†Hon. Sr. Lectr
Standing, D F., MB ChB <i>Burm.</i> , FRCOG	Hon. Sr. Lectr.
Murless, B D, BA MB BCh <i>Camb</i> , FRCOG, FRCSEd	†Cln. Lectr.
Rafferty, Lilian M. N.	†Cln. Tutor
Sacks, S., MB ChB	†Cln. Tutor
Steere, N. G., MB ChB <i>Edm.</i>	†Cln. Tutor
..	†Cln. Tutor

Medicine

Adams, E. B., BSc <i>S A</i> & <i>Oxon</i> , MB BCh <i>Rand</i> , FRCP	Prof
---	------

Wilmot, A J, BA BCh DM <i>Oxon</i> .	Sr. Lectr.
Mann, N. M., MA MD <i>Camb</i> , MRCPed	Sr. Lectr.
Powell, S J, MB ChB <i>Cape T</i>	Sr. Lectr.
Hift, W, MA BM BCh <i>Oxon</i>	Lectr.
MacFadyen, J A, BCh DM <i>Oxon</i>	Hon. Sr. Lectr
Wallace, H L, MD, FRCPEd	†Prof
Alexander, J S, OBE, MB BS <i>Lond</i>	†Hon. Sr. Cln. Lectr
Armstrong, T G, MA MD <i>Camb</i>	†Hon. Sr. Lectr.
Berger, M., MB ChB <i>Cape T</i> , MRCPed	†Cln. Lectr.
Davidson, F J, MB BCh <i>Rand</i>	†Cln. Lectr.
Leeming, J A L, BCh DM <i>Oxon</i>	†Sr. Cln. Lectr.
Drummond, J K., MB ChB <i>Edm.</i>	†Cln. Lectr.
Pooler, N R, MB BS <i>Lond.</i>	†Cln. Lectr.
Dewar, R S., MB ChB <i>Aberd.</i>	†Cln. Lectr.
Casson, M.	†Cln. Lectr.
Walt, F P	†Cln. Lectr
Campbell, G D, MB ChB <i>Edm.</i>	†Cln. Tutor
Edington, D A, MA <i>Camb</i> , MB ChB <i>Cape T</i>	†Cln. Tutor
McIntosh, E G., MB ChB <i>Edm</i>	†Cln. Tutor
Shapiro, N, MB ChB <i>Cape T.</i>	†Cln. Tutor
Walker, Jean J, MD <i>Cape T.</i>	†Cln. Tutor

Pathology

Gordon, I, MB ChB <i>Cape T</i> , FRSSAf	Prof
Wainwright, J, BSc MD <i>Sheff</i>	Assoc. Prof.
Watson, K C, MD <i>Aberd</i>	Sr. Lectr.
Neame, P B, MB ChB <i>Cape T</i>	Sr. Lectr
Joubert, S. M., MSc <i>Stell.</i> , MB ChB <i>Edm.</i>	Sr. Lectr.
Kallichurum, MB ChB	†Lectr.
Elsdon-Dew, R., MB ChB <i>Edm</i> , MD <i>Rand</i> , FRSSAf	†Hon. Sr. Lectr.
Thomas, J C	†(Consultant) Sr. Lectr.
Beemer, A M	†Hon. Sr. Lectr.
Grobelaar, B. G., MB BCh <i>Rand</i>	†Hon. Sr. Lectr
Rosch, G. G., MB ChB	†Hon. Sr. Lectr.

Physiology

Reid, J. V. O., BA BM BCh <i>Oxon.</i> , MRCP	Prof.
Rosenberg, E E., MB BCh <i>Rand</i>	Sr. Lectr
Dale, Maureen M, BSc MB BCh <i>Rand</i>	Sr. Lectr
Rupley, S H., PhD <i>Calif.</i> , MSc	Sr. Lectr
Canham, P A S., BSc PhD	Sr. Lectr.
Pettit, D. L R	†Hon. Lectr.

Psychological Medicine

.....	†Sr. Cln. Lectr
Khan, S., BA MB ChB <i>Cape T.</i>	†Cln. Lectr

Radiology

Sacks, N., MA <i>Cape T</i> , DMR <i>Lond</i>	Hon. Sr. Lectr.
Holmes, H. R., MD BS <i>Lond.</i> , FFR	Hon. Lectr.

Surgery

Chapman, D. S, MB BS *Durh.*, FRCS Prof
 Movsas, MB BCh *Rand*, FRCS Sr Lectr
 Lectr.

Radford, A., MB ChB *Edin*, FRCS Sr Clin Lectr

Grant-Whyte, B. A, MB ChB *Cape T.*, FFARCS †Prof

Gowans, R., MB ChB *Glas*, FRCSEd †Sr. Clin. Lectr

Edmunds, T Raftery, J D, BSc *Rand*, DPhil *Oxon.*, FRCs †Sr. Clin. Lectr

Barnat, I, MB BCh *Rand*, FRCS †Sr. Clin. Lectr

Bishop, B W. F., MB ChB *Cape T.*, FRCSEd Hon Sr Clin Lectr

Joubert, M, FRCS Hon. Sr. Clin. Lectr.

Holmes, H. R., MD BS *Lond*, FFR †Hon. Lectr.

Brink, D., MB ChB *Cape T* †Hon. Lectr

†Clinical Lecturers
 Goldberg, I, MB ChB *Edin*, FRCSEd
 Leonard, F. R., MB ChB *N.Z.*, FRCS
 Sweetapple, A. G., MB BS *Syd.*, FRCSEd

Were, G. L., MB ChB *Aberd*, FFARCS

†Clinical Tutors

Beales, A, MB BCh *Rand*, FRCSEd
 Cuthbert, A. D, MB ChB *Glas*, FRCSEd
 Boule, J. A, MB ChB *Cape T*, FRCSEd
 Lurie, A, MB ChB *Cape T*, FRCSEd
 Stange, H., MB ChB *Edin*
 Hedden, F. J, BSc MB ChB *Wales*, FRCSEd
 Allen, A. L, MB BCh *Rand*, FRCSEd
 Barker, E. M, MB BCh *Rand*, FRCS

Mesham, P. R, MB ChB *Cape T*, FFARCS
 Immermann, G, MB ChB *Cape T*

PAINT RESEARCH INSTITUTE (D)

Hamilton, G. M., MSc *Lond.* Dir
 Milner, A. M., MSc PhD
 (Phys. Chem. & Analyt. Sect.) Res Officer
 Moreton, T. G. Res Officer
 Drewes, S. E. MSc Res. Officer
 Nel, P. E., BSc Aast Res. Officer
 Aast Res Officer
 i Sec.

INSTITUTE FOR SOCIAL RESEARCH (D)

Holleman, J. F., MA *Stell*, PhD *Cape T* Dir.
 i Sec.

SUGAR MILLING RESEARCH INSTITUTE (D)

Douwes Dekker, K., PhD *Utrecht* Dir.
 Perk, G. M., IngCh *Amst.*

Chief Sugar Technologist
 Bruyn, J., IngCh *T.H.Delft* Sr Res Officer
 Graham, W. S., BSc PhD *Belf.* Sr. Res. Officer
 Steyn, P. J., MSc *O.F.S* Sr Res. Officer
 de Roos, R., IngCh *T.H.Delft* Res. Officer
 Buchanan, E. J., BScChemTech Res. Officer
 Van Hengel, A., IngCh *Dordrecht*

Sr. Tech Officer
 Bowles, Miss R. E., BSc Asst. Tech Officer
 Eastman, Miss R. J., BSc *Cape T* Asst. Tech Officer
 Wright, Mrs. B. F. Scientific Agst.
 i Instrument Maker, i Sec.

OCEANOGRAPHIC RESEARCH INSTITUTE (D)

Davies, D. H., MSc PhD *Cape T* Dir.
 D'Aubrey, Miss J., BSc Grad. Res Asst.
 i Sr. Technician

WATTLE RESEARCH INSTITUTE (P)

Shaw, H., MScTech PhD *Mane.*, FRIC Du.
 Martin, W. S., DIC, DSc PhD *Lond.*

Soil Chemist
 Moffett, A. A., BSc *Birm*, PhD *Lond.* Geneticist
 Nixon, Kathleen, MSc Asst Geneticist
 Sherry, S. P., BSc *S.A.*, MA *Oxon* Silviculturist
 Atkins, R. F. J. F., BSc *Stell* Asst. Silviculturist
 Asst Entomologist
 Biometrician
 Plant Physiologist

 Gordon-Gray, C. G., MSc Chemist
 Jones, R. A. Tech. Officer
 Wortmann, G. B., BSc Tech. Officer
 i Sec., 3 Jr. Tech. Assts.

ADMINISTRATIVE AND OTHER STAFF

LIBRARY Librarian R A Brown, MA *Oxon*
 Dep. Librarian L. Milburn, BA *Lond*, FLA

STUDENT ADVISER AND EMPLOYMENT OFFICER
 O. F. Black, BSc *Stell*, MA PhD *Co.*

NON-EUROPEAN SECTION Organizer I
 Allan, BCom *S.A*

WARDENS OF RESIDENCES. Pietermaritzburg.
 W. J. O'Brien (men), O. F. Black, BSc *Stell.*, MA
 PhD *Col.*, Eleanor Russell (women), Mrs
 Margaret E. Kirwood. Durban. Ansell May

Hall (men), T. H. Kelly, MCom PhD *Birm.*;
 Townley Williams Hall (men), J. R. Daymond,
 MSc(Eng) *Wales*, MICE, Lous Botha Hall
 (men), ...; Charles James Hall (women),
 Elizabeth Sneddon, MA *Glas*; Ernst Jansen Hall
 (men), ...; Florence Powell Hall (women),
 ...; Alan Taylor Residence, H. F. Dickie-
 Clark, BA *Rhodes*.

SUPTS. OF GROUNDS AND BUILDINGS. W. G.
 Vorster (Durban), R. Smith (Pietermaritzburg)

GENERAL INFORMATION

Established, by an act of 1909, Natal Univ Coll was opened in 1910 in the town hall and moved in 1912 to its own bldgs in the suburb of Scottsville, Pietermaritzburg. A new sci. block and a women's hall of residence were added in 1921 and a residence for men in 1928. A new wing was added in 1934 and a library and fine arts sch. in 1936. In 1926, a site of 50 acres at Stellatwood, Durban, was presented by the corporation of the city of Durban, for the erection of an engin. coll., and £50,000 was donated by Mr T. B. Davis in 1924 for this purpose. Howard Coll., as it is called to-day, was opened in Durban in 1931. A new comm. bldg., situated on a central site in the city of Durban, was added in 1936. By virtue of Act no. 4 of 1948, the Natal Univ Coll was incorporated as the Univ. of Natal. It came into legal existence as an independent Univ. on March 15, 1949, and, in addn. to fulfilling its previous functions, is now entitled to examine its own students and grant degrees and dipl.

CONSTITUTION. The Univ. consists of the chancellor, vice-chancellor, principal, council, senate and convocation; the profs., lectrs. and other teachers, the dirs. or hds. of res. insts. controlled by the council, and the students of the Univ. The chancellor, elected by the council, is hd. of the Univ., and as such is empowered, in the name of the Univ., to confer all degrees. The chief academic and admin. officer of the Univ. is the principal, who is *ex officio* a member of the council and chairman of the senate. The council, which elects its own chairman, is the governing body of the Univ. and administers its affairs and property.

INCOME (1960). Total income, £849,748 (govt. grant, 69.9 per cent.; annual grants from public bodies, 2.5 per cent.; interest on investments, rent received & sundry income, 0.8 per cent.; fees, 26.8 per cent.)

FACULTIES AND DEANS. *Agric.*, Prof. Susarah J. Truter (plant pathol. & microbiol.); *arts*, Prof. O. P. F. Horwood (econ.), *comm. & pub. admin.*, Prof. T. H. Kelly (comm.); *educn.*, Prof. W. H. O. Schmidt, *engin.*, Prof. A. J. Gould (mech. engin.); *law*, Prof. E. M. Burchell; *med.*, Prof. I. Gordon (pathol.), *sci.*, Prof. F. L. Warren (chem.); *soc. sci.*, Prof. Eileen Krige (soc. anthropol.).

LOCATION. The Univ. is the only Univ. inst. in S. Africa which functions in two large cities, viz. Pietermaritzburg and Durban. These cities are 56 mls. apart. One council and one senate control the Univ. as a whole, and meetings are held in alternate centres. A certain amount of duplication of work in both centres is inevitable. The facs. of arts (and dept. of fine arts), sci., law, educn. and agric. function in Pietermaritzburg. In Durban, the facs. of arts, med. and sci. (with limited choice of subjects), law, engin., comm. & pub. admin., soc. sci. and dept. of archit. function

LIBRARIES. 150,000 vols incl. 60,000 in Univ. lib. at Pietermaritzburg, 60,000 in Univ. lib. at Durban, 12,000 in lib. of non-European section, 7,000 in med. lib., 6,000 in agric. lib. and further collections in Wattle, Paint and Sugar Res. Insts. Sp. collections incl. Powell collection of early engin. and sci., Powell cancer res. lib. and Webb collection of works by Africans and negroes.

TEACHING HOSPITAL (non-European med. students) King Edward VIII Hosp. MEYRICK BENNETT CHILDREN'S CENTRE NATAL AGRIC. RES. INST. (of which the fac. of agric. is a part)

ADMISSION. See p. 1332. Students who are not qualified, or who do not desire, to take a regular course may be admitted to individual classes, provided the prof. or lectr. concerned is satisfied that they are competent to profit by the instructn. given. Students who have S.A. Jt. Matric Bd. sch. leaving certs. may, in certain cases, obtain conditional exemption from the matric. exam. which would entitle them to enrol for degree courses.

FIRST DEGREES. BA, BSc, BCom, BEcon, BSocSc—3 yrs. BAFineArts, BSCEng (civil, electr., mech., agric., chem.), BSCSur, BSCAgric—4 yrs. BAArch, BSocQS—5 yrs. MB ChB—7 yrs.

HIGHER DEGREES. BED—at least 2 yrs. after first degree. LLB—not less than 3 yrs. after first degree. BA hons. (in one of Greek, Latin, classics, Afrikaans-Nederlands, Engl., French, German, mod. langs., philos., maths., hist., geog., pol. sci., econ., psychol., Bantu studies, sociol., fine art, div.), BAFineArts (hons.), BSc hons. (in one of: maths., appl. maths., phys., chem., bot., zool., geol., geog., psychol.), BSCEng (hons.), BCom (hons.), BEcon (hons.), BSocSc (hons.), MSCEng, MScSur, MED—not less than 1 yr. after corresp. bachelor's degree. MA, MAFineArts, MSc, MScChemTech, LL.M., MCom, MEcon, MSocSc, MArch—not less than 2 yrs. from corresp. bachelor's degree. PhD—not less than 3 or 4 yrs. (according to fac.) after bachelor's degree. DSCAgric—not less than 5 yrs. after BSCEng. DLitt (DLitt in fac. of educn.—5 yrs. from BED), LLD, DSc, DEcon, DSocSc, DSCEng—not less than 6 yrs. after corresp. bachelor's degree. DAArch—not less than 7 yrs. after BAArch.

DIPLOMAS. Postgrad.: Univ. educn. dipl. (general, spec. or technical), dipl. in soc. work, dipl. in play production, 1 yr.; dipl. in logopedics, 2 yrs. Others: Univ. educn. dipl. (non-grad.), 1 yr.; dipl. in archit., 5 yrs.

CERTIFICATES. Remedial educn., 1 yr.; theory of accty., 4 yrs.; Natal law cert., 3 yrs.; archit., 5 yrs.

NON-EUROPEAN SECTION. Non-European students can study for degrees in the facs. of arts, comm., educn., med. and soc. sci., and for the dipl. in play production, Univ. educn. dipl. and cert. in remedial educn.

TERMS. 2 terms end Feb.-end June, beginning Aug.-end Nov

LANGUAGE OF INSTRUCTION English

GRADUATES' ASSOCIATION. Before 1949 the chief assocn of grads. was Natal Univ Coll union. With the attainment by the coll of univ status, the functions of the union have devolved upon convocation

FEES (inclusive). *Tuition* (for first-yr. courses). arts, fine arts, comm., law, soc. sci., £80 (160 Rands), agric., archit., engin., quant surv., sci., surveying, £90 (180 Rands); med., £60 10s for each of the two pre-med. yrs., £75. 10s p a. for subsequent yrs. In subsequent yrs of study other than the first yr. for all facs, except med., a reduction of from £5 (10 Rands) to £15 (30 Rands) is granted. *Residence fees*, £132 (264 Rands) p a.

STUDENT ORGANIZATIONS. The athletic union, which functions in both seats of the univ, is the chief student orgn, exercising control over the activities and finances of the various sporting clubs in each centre. There is also a jt athletic union orgn which concerns itself mainly with sporting tours undertaken by univ. clubs. Information concerning the various student socs, clubs and cities. is issued by the students' representative council in each centre. The S.R.C. is the body elected to deal with all student affairs

and is the students' official avenue of approach to the authorities of the univ.

RESIDENCE (For wardens, see 'Admin. and other Staff', p 1341). Students are normally expected to reside at one of the residences unless living with their parents. *European*. W J. O'Brien (men), Pietermaritzburg (tel. 2-6778), accomm. for 350 Eleanor Russell Hall (women), Pietermaritzburg (tel. 2-6648), 170 Ansell May Hall (men), Princess Alice Ave., Durban (tel. 5-7992), 140 Townley Williams Hall (men), Durban (tel. 5-7993), 94. Charles James Hall (women), Princess Alice Ave., Durban (tel. 5-7988), 60. Louis Botha Hall (men), Princess Alice Ave., Durban (tel. 51774) Florence Powell Hall (women), Princess Alice Ave., Durban (tel. 51775) Ernest Jansen Hall (men), Princess Alice Ave., Durban (tel. 57994). *Non-European* Alan Taylor Residence (men), Durban (tel. 87-7400), 60

A STUDENT ADVISORY SERVICE has been establd to help students to solve their many problems—personal, social, academic, financial, vocational, etc. An APPOINTMENTS AND EMPLOYMENT BUREAU exists to obtain suitable appts for grads. and pt-time and vacation employment for students.

PUBLICATIONS *Calendar* (Dec.), 10s.; staff publication, *Theoria*, 2s. 6d., students' newspaper, *NUX*, 3d., *Dome*, *Univ. of Natal Gazette*.

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS *Bldgs. completed* extension to memorial tower bldg; lecture theatre, library, city building, swimming-bath, Durban, women's residence extension nos 1 & 2, Pietermaritzburg; men's residence, Pietermaritzburg, extension to men's residence, Durban, union bldg, Durban

RETIREMENTS Prof G. M. J. Sweeney (law, Durban)

DEATHS Prof H R Burrows (emer prof of econ.), Dr L J J Ossowski (sr. entomologist)

RESIGNATIONS Dr J. G. Bickerton (surg.); Dr H. J. van der Bly (geol/geog.), D A Farnie (hist & pol sci.), Dr B Gampel (soc, prev & fam med.), Prof T Gillman (physiol.), C J D Harvey (Engl.), Dr J T. Hayward-Butt (surg.); M J R Hoch (phys.), Dr P Klenerman (paed.); P J Kramer (mech. engin.), J Langhour (acctg & auditing), Dr E W Laubscher (agron.), F Lloyd (educnl, psychol.), Dr D R. C. Marsh (Engl.), E G. M. Njane (soc), Dr C J G Raw (chem.), Dr D Sloan (econ.) & Prof C C Turpin (law), A. J. van der Merwe (maths.), D E. Ward (Engl.), C A D. Williams (archit.), B. S. Young (geog.), Dr W. Yourgrau (philos.).

HONORARY DEGREES. *DLitt*—Prof J McKinnell, formerly prof. of maths. *DSc*—Dr A R. Saunders, formerly dir. of Natal region (agric.).

Statistics

STUDENT NUMBERS, 1961

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	1928	1160
Women . . .	589	167
Total . . .	2517	1327

Distribution by Faculties, *Agric*, 280, *arts*, 1238, *comm.*, 600; *educn.*, 112; *engin*, 617, *law*, 123; *med*, 220, *sci*, 577, *soc. sci.*, 77. Total: 3844.

Included in the figures above are—

Postgraduate students, 552
Students from other countries, 297 (Country from which largest number came. Fed of Rhodesia & Nyasaland, 247)

DEGREES AWARDED (1960) *Agric*. BSc(Agric), 43, MSc(Agric), 3, PhD(Agric), 1 *Arts*. BA, 140, BA (hons.), 25, BAFineArts, 7, BAFine Arts (hons.), 1, MA, 4; PhD, 2; DLitt, 1 *Comm.* BEcon, 1; BCom, 12 *Educn.* BED, 11, MEd, 1, PhD(Ed), 2 *Engin*. BArch, 12; BScEng, 63; BScSurg, 3; MScEng, 4; PhD Eng, 1 *Law*. LLB, 11 *Med.*. MB ChB, 16 *Sci*. BSc, 53, BSc (hons.), 26, MSc, 13, PhD, 5 *Soc sci*. BSocSci, 7, BSocSci (hons.), 2.

UNIVERSITY OF THE ORANGE FREE STATE*

Founded 1950; previously established as Grey University College, 1904

Postal Address: P.O. Box 339, Bloemfontein, Orange Free State, South Africa

Cables and Telegrams: UOFS, Bloemfontein

Telephone: 81101

CHANCELLOR—C R SWART, BA LLB Hon LLD, State President

CHAIRMAN OF COUNCIL—A J. JACOBS, BA

RECTOR AND VICE-CHANCELLOR—Professor P. W G GROENEWOUD, MSc S.A., DPhil Oxon.

REGISTRAR—G P. J. Du TOIT, BEcon BA LLB S.A., BAdmin

LIBRARIAN—F J POTGIETER, BCom DiplLibr Pret

TEACHING STAFF

Accounting and Auditing

Faul, M. A., BEd BCom Potchef
van Niekerk, A. F., MCom
Botha, C. J., BCom Pret.

Roberts, B. R., MScAgric Natal Lectr.
Laubscher, M. de W., BScAgric Stell. Lectr.
Stanton, D. A., MScAgric Natal Lectr.
Oellermann, R. A., MScAgric Natal Lectr.
Nel, J. J. C., MScAgric Stell. Lectr.
Du Toit, A. J. L., BScAgric Pret. Lectr.
Basson, R. P., BScAgric Natal, MS Iowa Lectr.
De Jager, G., BSc Rhodes Lectr.

Afrikaans and Dutch

Kok, B., MA DLitt S.A.
Badenhorst, W. J., DLitt Pret., MA S.A.
Beukes, G. J., DLitt Pret., MA S.A.
van Rensburg, F. I. J., MA S.A., DLitt

Architecture and Quantity Surveying

Lay, G. Q., BA Lond., DArch Rand
Malan, W. H., BSc(QS)
Eksteen, M. C., BArch Pret
Mouton, J. P., DipArch Rand

Agriculture

Coetzee, W. H. K., MSc Stell., PhD Cape
Nel, J. A., MScAgric Stell.
Hofmeyr, J. H., DScAgric Stell.
Claassens, J. W., BScAgric Pret.,
MScAgric Natal
Burger, R. du T., MSc Stell., PhD Aberd.
Hartwig, E. K., DSc Pret.
Eloff, G., MA S.A., DSc Gron.
De Villiers, G. D. B., DSc Stell.
Luitingh, H. C., DScAgric Pret.
Cronje, P. J., DScAgric Stell.
Viljoen, W. C. J., BScAgric Pret.
Barrie, N., BVSc Pret.
Olivier, I. M., MScAgric Stell.
Piaget, J. E. H., MSc Stell.
Le Roux, P. L., MSc Pret., PhD Leeds

Bantu Languages, Ethnology and Bantu Administration

Language, F. J., DPhil Stell
van der Westhuizen, S. B., MA Stell.
.....

Botany

.....
Bakker, E. M. van Z., PhilNatD V.U.Amst.,
PhD Ley.
Coetzee, Johanna A., MSc Rand

Chemistry, Organic and General

Brink, C v d. M., MSc Stell., DSc Pret.
.....

Chemistry, Physical and Applied

Bok, L. D. C., MSc Stell., DIC, DrRerNat
Ley
de Wit, J. H., MSc Stell.

* Member of the Association of Universities of the British Commonwealth

Classics and Classical Culture

Steven, S J H, BA <i>Oxon.</i> , MA <i>Cape</i> , LLB	Prof
van Rooy, C. A., MA <i>S.A.</i> & <i>Oxon.</i> , DLitt	Prof.
Louw, J P, DLitt <i>Pret.</i>	Lectr.
Henderson, W., BA <i>Stell.</i>	Lectr.

Commerce

Fouree, F C. v. N., BA BCom <i>Cape</i>	Prof
Stockenström, F. F. de W, BCom <i>Stell.</i>	Lectr.
Border, T. G., MCom	Lectr

Economics and Economic History

du Plessis, C v H, MA <i>Stell.</i> , MSc <i>Minn.</i> , DPhil <i>Pret.</i>	Prof
Terreblanche, S J., MA <i>Stell.</i>	Sr. Lectr.

Education, see Teachers' Coll., below**English**

Hopwood, D, MA <i>Oxon.</i> , DLitt <i>Stell.</i>	Prof.
Gardner, W H, BA PhD <i>Lond.</i>	Prof
Mostert, C W, BA <i>S.A.</i> , MA	Sr. Lectr.
Ferreira, I S., MEd MA	Lectr.

Geography

Schmidt, A A, MA <i>Stell.</i>	Prof
Cootzee, J A, MA <i>Stell.</i>	Lectr
Jooste, P G	Lectr

Geology

De Vilhiers, J. E., PhD <i>S.A.</i> , DSc <i>Stell.</i>	Prof
Engelbrecht, C. K., MSc	Lectr

German and French

Dekker, J. J., DrPhil <i>Vienna</i> , MA <i>S.A.</i>	Prof.
Lichtenberg, K F W, MA DPhil <i>Berl.</i>	Lectr
Meiring, E G., BA <i>Pret.</i>	Lectr

Hebrew

Muntingh, L M, MA <i>Stell.</i>	Lectr
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History

Uys, C. J., DLitt <i>Pret.</i> , MA <i>S.A.</i>	Prof
Oberholster, J. J., MA DPhil <i>Stell.</i>	Sr. Lectr.
Van Schoor, M C E, MA MEd	Lectr

Hygiene

van der Merwe, I. R., BA MEd <i>Amst.</i> , DEd <i>S.A.</i>	Prof
--	------

Law

Steven, S J H, BA <i>Oxon.</i> , MA <i>Cape</i> , LLB	Prof.
...	Prof.
Van Rhy, J N R., LLB	Sr. Lectr.
Van Tonder, S I E., BA LLB	Sr. Lectr.
Van der Westhuizen, H. J., BA LLB	Sr. Lectr

Mathematics, Pure and Applied

Malan, A. P., MSc <i>S.A.</i>	Prof.
van Wyk, C. B., MSc <i>Stell.</i> , PhD <i>Camb.</i>	Prof
Eloff, C. L., BSc	Sr. Lectr.

Music

Quale, L	Prof
van der Merwe, F, BMus <i>Rand.</i> (Singing)	Sr. Lectr.
Koole, A J. C., DipIKons DLitt & Phil <i>Amst.</i> FTCL	Sr. Lectr
Koornhof, G W., BMus	Lectr.

Philosophy

Venter, E A, MTh <i>Stell.</i> , MA MDiv DD DPhil <i>S.A.</i> , PhD <i>Cape</i>	Prof.
--	-------

Physical Education

van der Merwe, I. R., BA MEd <i>Amst.</i> , DEd <i>S.A.</i>	Sr. Lectr.
Grace, Shirley, BA <i>Stell.</i>	Lectr
Brussow, A. V., BPEd BEd	Lectr.

Physics

Loubser, J H. N., BScIng <i>Cape</i> , MSc <i>Stell.</i> , DPhil <i>Oxon.</i>	Prof.
Alberts, L, DSc	Sr. Lectr.
Viljoen, P. E., MSc	Lectr.
Van Rhyneveld, W P, MSc	Lectr.

Political Science

Strauss, H. J., BA <i>S.A.</i> , DoctJur <i>V.U.Amst.</i>	Prof
Wessels, F J H., DPhil	Sr. Lectr

Psychology

Schmidt, C H, MA <i>Stell.</i> , BLitt <i>Oxon.</i>	Prof.
Kriel, R G., MSc <i>Potchef.</i> , MEd DPhil <i>Stell.</i>	Sr. Lectr.
Erasmus, C. P J, MA	Lectr

Public Administration

Fouree, P. C., MAdm <i>Pret.</i>	Sr. Lectr.
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Sociology and Social Work

Keyter, J de W., MA BEd <i>Stell.</i> , DPhil <i>Mun.</i>	Prof.
Vorster, H. R., MA DPhil <i>S.A.</i>	Sr. Lectr.
van Rensburg, W. J. J., MA <i>S.A.</i>	Sr. Lectr
Vrey, W, BA	Lectr
Retief, F P. le R., BA(SS) <i>S.A.</i> & <i>O.F.S.</i>	Lectr
Le Roux, Anna W, BA(SS)	Lectr.

Statistics and Finance

Reitsma, A., MSc <i>S.A.</i>	Sr. Lectr.
Oosthuizen, J H.,	Lectr

Zoology

De Wit, J. J. D., PhilNatD *Utrecht* Prof
 van Pletzen, R., DSc *Stell* Sr. Lectr.
 Dreyer, Maria V., BSc S.A., MSc Lectr

Hopewell, Dorothy, BA

(Fine Arts, Drawing & Hist. of Arts)
 Pretorius, Z. J., MA S.A., DLitt *Stell*

(Afrikaans)

Moller, E. L., BA BEd *Stell.* (Elocution)

Loubser, Annette S., BA (Needlework)

Pretorius, J. L., BA *Stell.*, MEd *Pret.*

DEd (School Ogr.)

Swart, C. P., MA S.A., BEd (Engl.)

van der Meulen, Maryna, BA (Phys. E.)

van Rooyen, G. H., BScAgric (Agric)

Weideman, A. J., MA (Afrikaans)

Lecturers**TEACHERS' COLLEGE**

of the University of the O.F.S.

Loubser, Prof. J. W., MA *Oxon.*, BEd, Principal

Jooste, A. J. C., BA BCom Vice-Principal

Blignault, Prof. H., BA DEd *Stell.*

Dean, Fac. of Educn.

Education

Blignault, H., BA DEd *Stell*

(Educnl Psychol.) Prof

Fourie, J. J., BA *Stell.*, DEd S.A.

(Pedagogy) Prof.

Preller, S. J., DEd

(Gen. Method & S.A. Hist.) Prof

Senior Lecturers

Hotha, G., BA BSc BEd

(Arith)

Britton, A. H., BA BEd

(Hist. of E)

Conradie, R. P., MA BEd *Stell.*

(Soc. Studies)

Schoeman, W. J., BCom BEd

(Woodwork)

Green, J. T., BA *Stell.*, MA S.A.,

PhD *Leeds* (Engl.)

Van der Riet, Rynora, BA

(Soc. Studies)

Geyser, W. P. G., MSc

(Phys. E.)

Van Rensburg, Miss H

(Hygiene)

Kruger, Miss D. C.

(Needlework)

Nel, P. R., BA (Fine Arts)

(Art)

Schoeman, G. C., BA BEd

(Woodwork)

van Staden, R. J.

(Blackboardwork)

Toerien, Miss M. S. L.

(Engl.)

van Loggenberg, Rev. J. H., BA

(Bible Hist.)

van Rensburg, P. J. N. J., MA

(Phys. E.)

Welman, H. G., BCom

(Shorthand & Typewriting)

Van Rensburg, Miss M. C., BMus

(Music)

Lemmer, P. J.

(Singing)

Van Loggenberg, N. T., BA MEd

(Educn.)

ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar: A. S. Theron, BCom

Book-keeper: H. J. Kruger, BCom

Registration Officer: H. W. D. Coetzee, BCom

Clerk: A. L. Badenhorst, BA

Admin. Equipment Officer: M. C. Schwella, BCom.

GENERAL INFORMATION

Founded in 1855 by Sir George Grey and establd. as Grey Univ. Coll. in 1904, the coll. was granted indep. status by Act no. 21 of 1949, and on March 18, 1950, became the Univ. of the Orange Free State. It provides courses for degrees in arts, sci., law, educn., comm., music, phys. educn., archit., quant. surv., agric., admin., and professional qualif. for soc. workers, also prelim. trg. for med. and chem. engin. and vet. sci. Facilities are also provided for students preparing for the 'admissie-eksamen' of the Theol. Seminary at Stellenbosch.

Bloemfontein, the capital of the Orange Free State, has a pop. of 98,900 (European, 42,400; non-European, 56,500).

CONSTITUTION The Univ. consists of the chancellor, the rector (who is *ex officio* also vice-chancellor), the council, the senate, convocation, and the profs., dirs. or hds. of res. instns. controlled by the council, lectrs., other teachers and students of the Univ.

FACULTIES AND DEANS *Agric.*, Prof. W. H. K. Coetzee; *arts*, Prof. B. Kok (Afrikaans & Dutch); *comm. & pub. admin.*, Prof. F. C. v. N. Fourie;

educn., Prof. H. Blignault, *law*, Prof. S. J. H. Steven, *sci.*, Prof. A. P. Malan (maths.), *soc. sci.*, Prof. J. de W. Keyter (social).

LIBRARIES, ETC. Univ. library, 65,000 vols. Students also have access to the Fichardt library, railway library, union govt. archives, war museum, national museum, Lamont observatory and Boyden observatory.

LABORATORIES Appl. maths., bot., chem., geog., geol., phys., phys. educn., psychol., zool.

TERMS. Feb. to June, Aug. to Nov.

ADMISSION. See p. 1332

FIRST DEGREES. BArch, BSc(QS)—5 yrs (6th yr. for hon.), BScAgric—4 yrs.; BMus—4 yrs. (5th yr. for hon.), BA, BSc, BCom, BAdmin, BSocSc—3 yrs. (4th yr. for hon.) The hon. course is a separate course of 1 or 2 yrs.; hon. courses for BA, BSc, BCom, BAdmin, BSocSc, are available in all the major subs. in the several facs.

HIGHER DEGREES LLB—3 yrs. after BA or BCom, BEd—1 yr. full-time or 2 yrs. pt.-time,

MED—1 yr after BEd; MArch, MA, MSc, MCom, MAdmin, MSocSc, MMus, MSe(QS) —1 yr after corresp hon degree DArch, DLitt, DPhil, DSc, DEd, DCom, DAdmin, DMus, LLD—4 yrs after corresp. master's degree

• HONORARY DEGREES Any of the degrees mentioned above may be conferred as honorary degrees

DIPLOMAS Educn—1 yr postgrad, soc. sci., music, jurispr, attorney's admission and public service law exam.—3 yrs, archit, quant surv—5 yrs

CERTIFICATES Theory of accounting—4 yrs

EVENING LECTURES For the convenience of candidates who are employed during the day, lectures leading to the BA, BAdmin, BCom, LLB, are given after 5 p.m. each day in the univ. bldgs. Assistance is also given to candidates for the CA (SA) exams, attorney's admission exam, and civil service law exams

TUITION FEES R50 per semester (R64 for BAgric, BSc or BArch; R75 for BMus or R100 for the dipl. in music)

USUAL LANGUAGE OF INSTRUCTION Afrikaans.

STUDENT RESIDENCES The President Steyn-tahus and Kestell-tahus for women, the Abraham Fischer-tahus, the President Rantz-saal and Huis Malherbe for men are all situated near the main univ. bldg. Accommod. 240 women, 500 men. Bd & residence: women, R224 p.a., men, R236 p.a.

ATHLETIC FACILITIES There are a number of tennis courts at the hostels for the use of students. Several good playing-fields enable students to participate in football, hockey and other sports. There is also a swimming-bath for students.

There are numerous STUDENT SOCIETIES

PUBLICATIONS *Calendar*, students' magazines —*Shimla* (annually), *Irawa* (monthly), past students' magazine—*Die Bull* (annually)

THE YEAR 1960

MAJOR BUILDING DEVELOPMENTS *Bldgs completed* maths & psychol bldg, *Approaching completion* bldg for fac of agric., men's hall of residence (to accomm. 160)

RESIGNATIONS Prof. P. J. Malherbe (comm.), to private practice, R. S. Meyer (philos.), apptd sr lectr in philos., S. A., W. F. Boshoff (Bantu admin.), apptd missionary of D.R. church, J. C. A. Booyens (chem.), apptd sr lectr in chem., S. A., J. C. de Beer (law), to private practice, Mrs Gertrude Kautzky (music), apptd sr lectr in music, Pret., E. W. Laubscher (agric.), apptd to agric coll., J. H. Smith (agric.), apptd to agric coll.

HONORARY DEGREES DPhil—T. Boydell, formerly minister of posta and telegraphs and public works.

Statistics

STUDENT NUMBERS, 1960

	Full-Time*	Part-Time
Men	1287	—
Women	744	—
Total	2031	—

Distribution by Faculties Agric, 67, arts, 614, comm & pub admin, 276; educn, 693, law, 71, sci, 273, soc sci, 37 Total 2031

Included in the figures above are —

Postgraduate students, 342

New admissions, 763.

Students from other countries, 10

DEGREES AWARDED (1960) DPhil, 2, DLitt, 1, MEd, 1, MSc, 7, MSocSc, 1, MA, 4; BAdmin (hons), 1, BCom (hons), 5, BSc (hons), 15, BSocSc (hons), 1, BMus (hons), 2, BA (hons), 22, BEd, 10; LLB, 7, BAdmin, 3, BCom, 26, BSc, 29, BSocSc, 5; BMus, 4, BA, 98

DIPLOMAS AWARDED (1960) Soc work, 4, music, 8, univ. teachers, 68, dipl. jurispr., 5.

* Includes 676 extra-mural students (624 m., 52 w.)

POTCHEFSTROOM UNIVERSITY

FOR CHRISTIAN HIGHER EDUCATION*

Founded 1869; incorporated as an independent university, 1951

Postal Address: Potchefstroom, Transvaal, South Africa

Cables and Telegrams: University Potchefstroom

Telephone: Potchefstroom 2222

CHANCELLOR—....

CHAIRMAN OF COUNCIL—Rev. D N KOTZE

VICE-CHANCELLOR, PRINCIPAL AND CHAIRMAN OF THE SENATE—Professor J C COETZEE, MA MED
DPhil S.A., FBP&S

VICE-CHAIRMAN OF THE SENATE—Professor D. J. VAN ROOY, MA S.A.

PRESIDENT OF CONVOCATION—Professor H G SCHULZE, MA S.A., DPhil Bonn

REGISTRAR—S DU TOIT, MComm

ASSISTANT REGISTRAR—G P SCHOEMAN, BA S.A., BComm Pret

LIBRARIAN—H C. VAN ROOY, MA S.A., BSc Col., FSALA

TEACHING STAFF

[† = Part-Time]

Accounting and Auditing

Grové, J. A., BComm Prof
Venter, O. T., BComm *Stell* Sr Lectr.
Sorgdrager, A. J. E., BA BComm S.A.,
MComm Sr Lectr
1 Jr Lectr., 4 Demrs †

Afrikaans and Nederlands

Dekker, G., MA S.A., DLitt&Phil *Amst* Prof.
Labuschagne, F. J., MA S.A. Emeritus Prof.
Venter, H., MA DLitt S.A. Prof
Cloete, T. T., MA S.A., DLitt&Phil *Amst*.
Sr Lectr
1 Jr Lectr †

Art, see Hist and Appreciation of Art

Bantu Languages

Breed, J., MA *Pret* Sr. Lectr
Kruger, C. J. H., MA Lectr.
Prinsloo, H. P., BA Jr Lectr.
Du Plessis, J. A., BA Jr Lectr

Bible, see Theol.

Botany

Goossens, A. P., PhD DSc S.A. Prof.
Botha, P. J., MSc PhD S.A. Prof.
Papendorf, M. C., MSc PhD S.A. Sr Lectr.
Van Wyk, J. J. P., MSc Lectr
2 Temp Assts.

Chemistry

Tiedt, J., MSc S.A., PhD *Leeds* Prof.
Van den Berg, J. A., MSc S.A. Sr Lectr.
Arnold, N., MSc S.A., MED Sr Lectr.
Williams, C. S., MSc Lectr.
Nelson, H. D., BSc Jr Lectr.
1 Lab Techn., 3 Demrs.†

Commerce

Viljoen, D. J., MComm S.A., DComm *Stell*. Prof.
Erasmus, D. P., DComm *Pret*, MComm Sr. Lectr.

Cost Accounting

Sorgdrager, A. J. E., BA BComm S.A.,
MComm Sr Lectr
Viljoen, F. P., MComm Lectr

Domestic Science

Potgieter, Mrs. Maria M., BSc(DomSc) *Pret*. Sr. Lectr.
Du Plessis, Gwendolyn, BSc(DomSc) Lectr.
Heydenreich, Mrs. Cornelia C. R.,
MA BSc(DomSc) *Pret*. Temp Lectr
Jacobsz, Marétha S., BSc(DomSc) *Pret*. Jr. Lectr
Van der Westhuizen, Elsje E., BDEd Jr Lectr

Economics

Coetzee, F. J. J., BA BComm BEcon S.A.,
MCommDEcon *Rotterdam* Prof.

* Member of the Association of Universities of the British Commonwealth

Du Plessis, F. J., MComm DEcon *V.U. Amst*Sr Lectr.
Lectr.Venter, W. J., MComm *O.F.S***Journalism**Pfenaar, G. J., BA *S.A.*, MA *Pret.*

Lectr

EducationBmgie, H. J. J., MEd DPhil *S.A.*

Prof.

Snyman, J. J., MA MEd *S.A.*, DEd

Prof.

Schutte, B. C., BA MSc *S.A.*, DEd

Prof.

2 Assts.†

LatinCoetzee, W. N., MA DPhil *S.A.*,
MEd *Stell.*

Prof.

Coetzee, J. J., MA *S.A.*

Sr Lectr

Du Plessis, M. J. H., BA

† Jr Lectr

LawSwanepool, H. L., BA LLD *Stell.*

Prof.

Du Plessis, L. J., MA MEcon LLB *S.A.*

Prof.

Van Zyl, F. J., BA LLB *Stell.*

Sr Lectr.

Postma, S., BA LLD *Ley*

Sr Lectr.

Van der Vyver, J. D., BComm LLB

Lectr.

Prollus, A. B., BComm LLB

Lectr

2 Assts †

Library ScienceMalan, S. L., MA *S.A.*

Sr Lectr.

Van Rooy, Mrs. Johanna C., BA *S.A.*,

Lectr.

BSc *Col.*, FSALA

Lectr

Schutte, P. J., BA

Lectr

Van Rooy, H. C., MA *S.A.*, BSc *Col.*,

Librarian

FSALA

Mathematics and Applied MathematicsVan Rooy, D. J., MA *S.A.*

Prof

Robertse, W. P., MSc *S.A.*,

Prof

DrScT *THE Delft*

Prof

Schutte, H. J., MSc *S.A.*, DSc *Ley.*

Sr Lectr.

Strydom, B. C., DSc *Ley.*, MSc

Lectr

Henning, J. J., MSc

Lectr

MusicRoode, M. C., BMus *S.A.*

Prof.

van der Walt, J. J. A., BSc *S.A.*, MMus

Prof.

DPhil *Cologne*

Sr Lectr.

De Villiers, P., BA *Stell.*

Sr Lectr.

Wegelin, A. W., MMus *S.A.*

Sr Lectr.

Snyman, Andriette E., BMus *Stell.*

Lectr.

Coetzee, H. P. A., MMus

Lectr

Oosthuizen, Jeannette F., BMus

† Jr Lectr.

Theron, Mrs. Sarie M. E. P.

Jr Lectr

Potgieter, J. H., MMus *Stell.*

Jr Lectr

Native Administration, see Ethnol**Pharmacy**Gerritsma, K. W., DrSc DrsFarm *Utrecht*

Prof.

Offermeier, J., BScPharm

Jr Lectr.

Van Oudtshoorn, M. C. B. v. R., BScPharm

Jr Lectr

Coetzee, M., BSc

Lectr.

2 Temp. Lectrs., 1 Asst.

PhilosophyStoker, H. G., MA *S.A.*, DPhil *Cologne*

Prof.

Taljaard, J. A. L., MA *S.A.*, DPhil *V.U. Amst.*

Prof.

Du Plessis, P. G. W., MA

Sr Lectr.

1 Temp. Asst

EnglishFoune, I. J. v. H., MA DPhil *S.A.*, DLitt

Prof

Andrew, R. V., BA *O.F.S.*, BEd DLitt

Prof

Pretorius, J., BA *S.A.*, MA

Sr Lectr.

Prinsloo, W. J. de V., BA *S.A.*,

Sr Lectr

BEd *O.F.S.*

Lectr

Lohann, Alice N. I., BA

Lectr

3 Temp Assts

Ethnology and Native AdministrationCoetzee, J. H., MA *S.A.*, DPhil

Prof

Henning, J. J., MA

Lectr

De Jager, J. J., BA

† Jr Lectr

FrenchDekker, G., MA *S.A.*, DLitt&Phil *Amst*

Prof.

Lampen, Mrs. Anna D., BA *Pret.*,

Prof, Hd. of Dept.

Dipl *Cours de Civilisation, Paris*

Temp. Lectr.

1 Temp Asst

GeographyVan der Merwe, J. S., MSc MA *S.A.*

Prof.

Duvenage, J. P., MA *S.A.*

Sr Lectr

Vermeulen, P., BA

Lectr

GeologyAckermann, P. B., MSc *Cape T.*

Prof

Bisschoff, J. A., MSc *S.A.*

Sr Lectr.

1 Temp. Asst.

GermanBrandt, P. A., MA *S.A.*, DPhil *Lesp.*

Prof

Schulze, H. G., MA *S.A.*, DPhil *Bonn*

Emei. Prof.

GreekPostma, A., MA CandTheol *S.A.*

Prof

Grobler, J. H., BA *S.A.*, MA *Pret*

Sr Lectr

HistoryKruger, D. W., MA DLitt *S.A.*

Prof.

Du Plessis, J. S., MA *S.A.*, DLitt

Sr Lectr

History and Appreciation of ArtDekker, G., MA *S.A.*, DLitt&Phil *Amst.*

Prof.

Hygiene

Van Eeden, D., MSc

Sr Lectr.

Brand, P. A. J., BSc

Lectr.

5 Demrs †

Physical Education		Statistics	
Smith, D P J., BA MEd DPhil S A, Dipl		De Wet, J M., MSc S.A., BSc(Eng) Rand,	
Turn-, Sport- u Gymn-Lehrer Berl.	Prof	PhD Lond.	Prof
Bosman, J. S K, BPEd BED	Lectr	Venter, J. H, MSc	Lectr
Putter, W J., BA	Jr. Lectr	Theology	
Schoeman, Irma, BA	Jr Lectr	Du Toit, S., MA Pret., MDiv DD S A.	Prof
Bester, Gerda W., BA	Jr Lectr	Snyman, W. J., BA BD S A,	
		TheolDrs V.U Amst	Prof
Physics		Jooste, J P., BA DD S A	Prof
Stoker, P. H., BSc S.A., MSc Cape T,		van der Walt, S P., MA BD DPhil S A	Prof.
DSc V U Amst.	Prof	Du Plessis, H., MA S A.	Prof.
Meyer, M A du T, BSc S.A., MSc Cape T,	Sr Lectr	Van der Walt, S. J., BA MDiv DD S.A.	Prof.
DSc T.H Delft		Zoology	
De Beer, J. F., BSc S A, MSc Stell.,	Sr. Lectr	Van Eeden, J. A., DSc Stell	Prof
DSc	†Lectr	Ryke, P. A. J., DSc Stell	Sr. Lectr.
De Villiers, J. A. M., MSc		Van Aardt, W. J., BSc	Jr. Lectr.
2 Instrument Makers, 1 Temp Asst, 9 Jr		Anderson, Ingrid U, BSc	†Jr Lectr
Demrs		3 Demrs	
Physiology		AFRICA SEMINAR	
Haemersma, P. J., DSc Pret	Prof	Coetzee, J H., MA S A, DPhil	Dir
Pretorius, P. J., MSc	Lectr	CONSERVATOIRE	
Oelofse, P. J., MSc	Lectr	Roode, M C, BMus S A.	
3 Demrs.†		Prof, Hd of Conservatoire	
Politics		Le Roux, Mrs Doris S	(Piano) Teacher
Van der Walt, C P, MA	Sr Lectr	Pretorius, Mrs Thelma	(Piano & Organ) Teacher
Psychology		Swanepoel, Mrs. Anna D	(Piano) Teacher
Deppe, P C W., MB BCh Rand	Hon Prof	Potgieter, Mrs Marlis	(Piano & Organ) Teacher
Hattingh, J M., MA DPhil S.A.	Prof.	Levisseur, Mrs. Maria C	(Singing) Teacher
Schoeman, C. F., BA(SS) MA S A.,		Sauerman, Susan C J	(Violin) Teacher
DPhil Amst	Sr Lectr	15 Assts †	
Strumpfer, D. J. W., BSc S.A., PhD	Purdue,	INSTITUTE FOR ECONOMIC RESEARCH	
MSc	Sr Lectr	Erasmus, D. P., DComm Pret., MComm	Dir
Roode, C. D., MA	Jr Lectr.	PLANT PHYSIOLOGY RESEARCH	
1 Temp. Asst.		INSTITUTE	
Semitic Languages		Botha, P J, MSc PhD S.A.	Dir.
Kroeze, J H., DrTheol LittSemDrs		ZOOLOGY RESEARCH INSTITUTE	
V.U Amst.	Prof	Ryke, P A J, DSc Stell	Dir
Du Plessis, S. J., MA Pret., BA MDiv		INSTITUTE FOR SOUTH AFRICAN MUSIC	
DD S.A., ThM	Sr. Lectr	van der Walt, J J. A., BSc S A., MMus	
Social Work		DPhil Cologns	Dir
Venter, C N, MSocSc	Sr. Lectr	ADMINISTRATIVE AND OTHER STAFF	
Sociology		Organizer: C. J. H Schutte, BComm S.A	
van der Walt, J P, MA DPhil	Prof	Accountant: P. J. de Wet, BComm Warden of	
Eloff, D J, BA S A	Lectr.	Residences: C. P van der Walt, MA S A	
		Supt of Grounds and Bldgs.: M G. L. Bosman.	

ADMINISTRATIVE AND OTHER STAFF

Organizer: C. J. H Schutte, BComm S.A
 Accountant: P. J. de Wet, BComm Warden of

Residences: C. P van der Walt, MA S A
 Supt of Grounds and Bldgs.: M G. L. Bosman.

INSTITUTIONS IN CO-OPERATION WITH THE UNIVERSITY

THEOLOGICAL SCHOOL OF THE REFORMED CHURCH IN SOUTH AFRICA (f 1869), P.O. Box 2004, North Bridge, Potchefstroom (tel. 159, Potchefstroom) Rector Prof S du Toit, MA Pret., MDiv DD S.A. A trg instn for the ministry of this Church Admission qualif a 1st degree of this univ While in trg at the sch,

students also take a degree in theol at the univ

POTCHEFSTROOM COLLEGE OF EDUCATION (f 1919), P.O. North Bridge, Potchefstroom (tel. 261, Potchefstroom) Rector Prof J. J. Mulder, BA BSc MEd S.A. A trg instn for primary and secondary sch teachers, the latter taking simultaneously a 1st degree at the univ

AFFILIATED INSTITUTION

CONSERVATOIRE OF THE POTCHEFSTROOM UNIVERSITY FOR CHRISTIAN HIGHER EDUCATION (f.

1959) Hd Prof. M. C. Roode, BMus S.A. Address and Telephone same as Univ

GENERAL INFORMATION

Founded in 1869, the present univ. was incorporated in 1921 as a constituent coll of the Univ of South Africa under the name of 'The Potchefstroom University College'. An amendment to the Potchefstroom Univ Coll Private Act was passed by parliament in 1933, renaming the original name Potchefstroom University College for Christian Higher Education. In 1950 parliament passed a private act whereby the coll became an independent univ as from March 17, 1951

CONSTITUTION. The univ. consists of the chancellor, vice-chancellor, principal, council, senate and convocation, the profs, lectrs and other teachers; and the students. The chancellor, elected by the council, is the head of the univ, and as such is empowered to confer all degrees. The chief academic and admin officer is the principal, who is *ex officio* a member of the council, and chairman of the senate. The hds of academic depts and hds of res insts are members of the senate. The council, which elects its own chairman, is the governing body of the univ and administers its affairs and property

INCOME (1960) Total income, £419,392 (govt grant, 77.8 per cent, annual grants from public bodies, 0.7 per cent, interest on investments, rent received and sundry income, 2.4 per cent, fees, 19.1 per cent.)

FACULTIES AND DEANS Arts, Prof H. L. Swanepoel (law); econ scis, Prof D. J. Viljoen (comm); educn, Prof H. J. Bingle; sci, Prof A. P. Goossens (bot); theol, Prof W. J. Snyman

LIBRARY Ferdinand Postma library: 142,354 vols, 2075 magazines and periodicals

LABORATORIES Appl maths, bot; chem. and pharm, dom sci, geog, geol, phys., physiol, psychol, phys educn., zool

ADMISSION See p 1332 Students who are not qualified, or who do not desire, to take an ordinary degree or dipl course may be admitted to attend classes, provided the prof or lectr. con-

cerned is satisfied that they can profit by the instructn given

FIRST DEGREES 3 yrs—BA (4th yr for hons in Afrikaans-Nederlands, Bantu langs, Bible, econ, Engl. lang. & lit, ethiol, French, geog, German, Greek, hist, hist & appreciation of art, hist of music, journalism, Latin, maths, native admin, philos, phys educn, pol, psychol., Roman law, Roman-Dutch law, Semitic langs, soc work, sociol), BMus (4th yr for hons) BSc (4th yr for hons. in appl maths, bot, chem, dietetics, geog, geol, hyg, maths, phys, phys educn, physiol, psychol, statl maths, theory of stats, zool), BComm (4th yr for hons. in acctg, comm, cost acctg, econ, psychol); 4 yrs—BA (LibrSci), BSc (Dom), BSc (Dietetics), BSc (DomSc Teachers), 5 yrs—BSc (Pharm) (6th yr for hons)

HIGHER DEGREES MA, MMus, MSc, MSc (Pharm), MComm, LLB, BEd—2 yrs from bachelor's degree; ThB—4 yrs from BA; ThM, MEd—1 yr. from ThB and BEd, D Litt, DPhil, DSc, ThD, DEd, DComm—2 yrs from corresponding master's degree, DMus—3 yrs from MMus, LLD—2 yrs from LLB

HONORARY DEGREES Any master's or doctor's degree of the univ. may be awarded as an honorary degree.

DIPLOMAS Teacher's in music; teacher's in sch music; church organists, teacher's in dom sci., univ educn dipl (non-grad)—3 yrs; artist's in music—1 yr after teacher's in music Phys educn—1 yr after teacher's. Univ. educn dipl—1 yr postgrad Lower univ dipl in library sci—2 yrs, univ. dipl. in library sci—1 yr postgrad, dom sci—1 yr postgrad, dietetics—1 yr postgrad

CERTIFICATES Theory of acctg—5 yrs; lower cert in cost acctg—2 yrs, higher cert in cost acctg—2 yrs. postgrad.

FEES Registration fee, £3 p.a. Composite fees bachelor's degrees from £50 to £60

(annually); ThB, £30 (annually) hons bachelor's degrees and BEd, from £47 to £63 (for course) Master's degrees, £27 (for course) ThM, £47 (for course); doctor's degrees, £59 (for course). Dipl courses from £34 to £55 (annually).

STUDY LEAVE AND FURLOUGH Academic staff may be granted 6 mos' leave (3 mos. full pay, 3 mos. half pay) after each period of service of 6 yrs.

ACADEMIC YEAR. 2 semesters Feb to end of June, Aug to early Dec.

USUAL LANGUAGE OF INSTRUCTION Afrikaans.

VACATION COURSES. Occasional short vac. courses may be offered if there is sufficient demand. Courses in co-operation (every 2nd yr).

BURSARIES FOR STUDENTS ENTERING THE UNIV TO READ FOR A FIRST DEGREE. Merit awards, from £10 to £60 p.a. for 3 yrs, J. M. Hansen, £100 p.a. for 1 yr., also sundry state and municipal bursaries

STUDENTS' RESIDENCES. (Address: P.U. for C.H.E., Potchefstroom) Fees, £100 p.a. Women: De Klerkhuys, 81 students; Piet Groblerhuys, 73, Klawerhof, 209. Men: Postmahuis, 27, Uitspan, 36; Heimat, 38, Ons Huis, 49, Dawie du Plessishuis, 146

STUDENTS' UNIONS Students' representative council is elected by the students to deal with all student affairs. It controls a large number of clubs and organizations and is the students' official avenue of approach to authorities of the univ.

STUDENTS' SPORT FACILITIES. Gymnasium, swimming-bath, fields for rugby, tennis, hockey, cricket, baseball, netball, athletics, Jukskei, etc.

PUBLICATIONS *Calendar* (Dec., free); *Rector's Report* (Feb, free), *Die Veteraan*, quarterly for alumni (free); *Koers* (monthly, 3s), *Die Besembos*, *Die Pukkie*, *Die Wapad* (student publications)

THE YEAR 1960

PRINCIPAL BENEFACTIONS Total value of all benefactions received £25,202

MAJOR BUILDING DEVELOPMENTS Bldgs. completed extensions to library, new lab. for dom sci, new central laundry for all hostels. Approaching completion new labs for zool., physiol, psychol, addition for phys. lab, new hostel for men students

NEW DEPARTMENTS AND CHAIRS Depts: pol, hyg

RETIREMENTS Prof G T S Eiselen (hyg), Prof. F. J. Labuschagne (Afrikaans-Nederlands), apptd emer prof

DEATHS Prof G. Davies (Engl.)

RESIGNATIONS J H van der Walt (pharm), Johanna M Schoeman (phys educn), H J. Schoombee (zool); Dr C J H Schutte (chem); Jeanette F Snyman (music), M A. Faul (acctg)

HONORARY DEGREES LLD—His Hon J. de Klerk, senator, member of the cabinet

Distribution by Faculties, etc *Arts*, 633, *econ. sci*, 330, *educn*, 260, *sci*, 556, *theol*, 61
Total 1840

Included in the figures above are —

Postgraduate students, 489

New admissions, 431.

Students from other countries, 15. (Country from which largest number came: Fed. of Rhodesia).

DEGREES AWARDED (1960) *Arts*: BA, 101, BMus, 2, BA(hons), 20, BMus(hons), 1, LLB, 4; MA, 9, DLitt, 2, DPhil, 1 *Econ sci*: BComm, 39, BComm(hons), 2, MComm, 7 *Educn*: BSc(DomSciTeachers), 3; BEd, 11, MEd, 4; DEd, 6 *Sci*: BSc, 51; BSc(Dom), 1, BSc(Dietetics), 2, BSc(Pharm), 16, BSc(hons), 10, MSc, 9, DSc, 3, DSc(Pharm), 1. *Theol*: ThB, 15

DIPLOMAS AWARDED (1960). Univ educn dipl., 25, univ educn. dipl (non-grad), 2; univ lower educn dipl, 10; teacher's dipl. in dom sci, 9, teacher's dipl in music, 3, church organists, 3, libr sci, 9, lower dipl. in libr sci., 2, hospital dietetics, 2

CERTIFICATES AWARDED (1960) Music, 8

Statistics

STUDENT NUMBERS, 1961

	Full-Time	Part-Time*
Men	1302	16
Women	510	12
Total	1812	28

* Part-time students are those not studying for a degree, diploma or certificate All occasional students are included in this category

UNIVERSITY OF PRETORIA*

Incorporated 1930; previously established as Transvaal University College, 1910

Postal Address: Brooklyn, Pretoria, Transvaal, South Africa

Cables and Telegrams: Univ, Pretoria (Bentley Code)

Telephone Pretoria 74-3111

CHAIRMAN OF COUNCIL—F. MEYER, BA *Cape T*, MSc *Stell.*, DrEng *Berl.*, Hon DSc(Eng) *Rand*, Hon, DSc

CHANCELLOR—C. TE WATER, BA LLB *Camb.*, Hon. LLD *Rand*

VICE-CHANCELLOR AND RECTOR—C. H. RAUTENBACH, MA BD *S.A.*, Hon. DUMontr, DPhil

REGISTRAR AND FINANCIAL ADVISER—M. SMUTS, MCom(B&A)

ACCOUNTANT—J. P. NEL, MCom(B&A)

LIBRARIAN—A. J. VAN DEN BURGH, BA DipLibr

TEACHING STAFF

[†=Part-Time]

Accountancy , see Commerce and Public Administration		Biochemistry	
Afrikaans Language and Literature , see Dutch, Afrikaans and Germanic Philol. and Lit.		Grotepass, F. W. K., DPhil <i>Gott</i>	Sr Lectr
Agriculture , see below		Smit, Z. M., MScAgric	Lectr
Anthropology , see Soc Anthropol		1 Tech. Asst.	
Architecture and Quantity Surveying		Botany and Biology , see also Veterinary Science	
Meiring, A. L., BA <i>Cape</i> , BArch <i>Liv.</i> , FRIBA		Grobelaar, N., BSc <i>Rhodes</i> , PhD <i>Corn</i> ,	
(Design, Bldg. Constructn, Acoustics)	Prof	MSc	
Louw, T. H., BSc(QS)		(Plant Physiol & Plant Biochem.)	
(Quantities, Mensuration, Professional Practice, Analysis of Bldg. Costs, Valuations & Reports, Estimates & Bldg Finance)	Assoc Prof.	Schweickerdt, H. G. W. J., BSc <i>S.A.</i> ,	Bertha Stoneman Prof
Wepener, F. J., BArch <i>Rand</i>	Sr Lectr	PhD <i>Bonn</i> (General Bot)	Louis Botha Prof
Brink, C. S., BArch <i>Cape T</i> , DipTP <i>Liv.</i>		van der Schyff, H. F., BSc <i>S.A.</i> ,	
	Sr Lectr	DSc <i>Potchef</i> , MSc	Sr Lectr
Burger, A. P., BArch	Lectr.	Theron, J. J., MSc <i>S.A.</i> , DPhil <i>Berl.</i>	Lectr
Viljoen, J. T. B., BSc(QS)	Lectr	Classen, Martha I., MSc	Lectr
13 Lectrs.† and 6 from other Univ. Depts.		Groenewald, E. C., BSc(Agric) BSc	Lectr
		1 Jr Lectr., 3 Tech. Assts	
Banking , see Commerce and Public Administration		Chemistry, Inorganic and Analytical	
Bantu Studies		Schilz, W. E., MSc LLB <i>S.A.</i> , DIC, PhD	
van Wyk, E. B., DPhil (Bantu <i>Langs</i>)	Prof	<i>Munch</i>	Prof
de Clercq, J., MA <i>Stell</i>	Sr Lectr.	Liebenberg, C. J., MSc <i>Stell</i> , DSc	Sr Lectr.
Groenewald, P. S., BA	Lectr	Wittmann, G. T. W., MSc <i>Stell.</i> ,	
2 Demrs.	Jr Lectr	UED <i>Natal</i>	Sr Lectr
		Norval, S., BSc	Lectr
		Bohmer, R. G., MSc	Lectr.
		2 Jr. Lectrs., 6 Tech. Assts.	
		Chemistry, Organic	
		de Waal, H. L., MSc <i>Stell.</i> , DPhil <i>Bonn</i> , DSc	Prof.

* Member of the Association of Universities of the British Commonwealth

Serfontein, W. J., MSc *Stell.*,
DrPhilNat *Ley*
Wiechers, A., MSc
2 Tech. Assts

Chemistry, Physical

Pretorius, V., DPhil *Oxon*, MSc
Clark, F. L., MSc *Sheff*, DSc *S.A.*
de Wet, J. F., DSc

Sr. Lectr.
Lectr.

Engineering, see below

English

Titlistad, R. M., MA *S.A.* & *Oxon*,
LLB *S.A.*

(on leave) Pretoria City Council Prof.
Sabbagha, N. G., MA *S.A.* & *Oxon*

Assoc. Prof.

Knowles-Williams, Gweneth, MA DLitt

Sr. Lectr.

van Huysteen, J. A., BA *Rand*

Lectr.

Jeffries, Mrs. Kathleen, MA *S.A.* & *Oxon*.

Lectr.

Bryant, E. P., BA *Cape T.*

Lectr.

1 Jr. Lectr

Entomology, see Agriculture, below

French

Viljoen du Chaillois, Mrs. Madeleine G. E. F.,

Sr. Lectr.

BA *Lond*, MA

Monnig, Mrs. Agneta A., MA

Lectr.

Geography and Economic Geography

Scheepers, G. H., BA *S.A.*, DSc *Hamburg*,

MSc

Prof

Hugo, C. F., BA *S.A.*, MA DPhil *Stell.*

Sr. Lectr.

Vorster, J. H., MSc

Sr. Lectr.

12 Tech. Assts.

Geology

Willemse, J., PhD *Zur*, MSc

Prof.

Visser, D. J. L., DSc *Stell*, FGS

St. Lectr.

Zagt, S., MSc

Sr. Lectr.

Snyman, C. P., MSc

Lectr.

1 Jr. Lectr., 2 Tech. Assts.

German

Mostert, L. C., BA *Stell.*, PhD *Hamburg*

(German Lit.) Prof.

Leue, J. A. E., DPhil *Bonn*, BA

(on leave) Sr. Lectr

Lectr

Hebrew

van Selms, A., ThD *Utrecht*

Prof.

Newman, J., MA *Manc*, DLitt

(Post-Biblical Jewish Lit.) Hon. Prof.

Labuschagne, C. J., ThDrs *Gron*, BD

Lectr.

1 Jr. Lectr.

History

Pelzer, A. N., MA DPhil

(on leave) Prof.

van Alphen, G., DLitt *Ley*.

(H of Afrikaans & Neth. Culture) Prof.

van der Westhuysen, H. M., MA DLitt

(H of Art) Prof.

Spies, F. J. du T., MA *S.A.*, LittD *Ley*.

Assoc. Prof.

van Rooyen, T. S., DPhil

Sr. Lectr.

Classics, see also Hist.

Gonin, H. L., BA *Stell*, MA *Oxon*,

(Latin) Prof.

Pistorius, P. V., MA BD *Stell*, LittD&Phil

Ley, DLitt

(on leave) (Hellenic & Patristic

Greek)

Prof.

de Kock, E. L., LittD&Phil *Ley*, BD MA

(Greek) Sr. Lectr

Richards, W. J., BCom *S.A.*, MA

(Latin) Sr. Lectr

de Wet, B. X., MA

(Greek) Lectr

la Grange, L. J. D., BA

(Latin) Lectr.

Commerce and Public Administration,
see below

Criminology

Venter, H. J., DPhil

Prof.

Steyn, D. G., DPhil

Sr. Lectr.

1 Jr. Lectr

Dentistry, see below

Domestic Science

Ackerman, Esther M., MA *Col.*, MSc *Corn.*,

BScDomSc

Sr. Lectr.

van den Berg, Anna S., MS *Harv.*,

BSc(Dietet)

Sr. Lectr.

Muller, Johanna M., BScDomSc

Sr. Lectr.

Redelinghuys, Mrs. Annette, BScDomSc

Lectr.

2 Jr. Lectrs., 1 Lectr.†

Dutch, Afrikaans and Germanic Philology and Literature

Louw, S. A., LittDrs *Utrecht*, MA DLitt

(on leave) (Afr. & Dutch Lang.)

Pretoria City Council Prof.

Grové, A. P., DLitt *S.A.* (Afrikaans Lit.) Prof.

Buning, T., BA BSc *S.A.*, MA DLitt MED

(Dutch Lit.) Prof.

Bingle, J. P., MA HED *S.A.*

(on leave) (Afrikaans Lang.) Sr. Lectr

Scholts, H. v. d. M., MA *S.A.*, DLitt&Phil

Amst (on leave) (Afrikaans Lang.) Sr. Lectr.

Economics, see Commerce and Public
Administration, below

Education, see below

Nilant, F. G. E., PhD *Rand*, MA
1 Jr. Lectr

History, Economic, see Commerce and
Public Administration, below

Industrial Economics, see Commerce and
Public Administration, below

Land Surveying, see Engineering, below

Law, see below

Library Science

Coetzee, P. C., DPhil *S.A.*, MA
de Kock, A. P. S., BA

St. Lectr
Lectr

Mathematics

Zietman, P. J., MSc BEd (on leave) Prof
van Warmelo, N. J., MSc St. Lectr.
Hattingh, D. J., BSc *Rand*, MSc Sr. Lectr.
de Wet, C. L., MSc *Potchef* Sr. Lectr.
Botha, Marie H., MSc Lectr.
Viljoen, G., MSc *O.F.S.* Lectr.
Hauptfleisch, G. J., BSc *S.A.*, MSc Lectr.
Kies, J. D., BSc *Stell.*, MSc Lectr.
van Niekerk, F. D., MSc Lectr.
2 Jr. Lectrs., 1 Tech. Asst

Mathematics, Applied

Beezhoid, W. F., DSc *Utrecht*, MSc Prof
Geldenhuys, J. J., MSc HED Sr. Lectr.
Kruger, C. J. V., MSc Sr. Lectr.
Hill, J. S., BSc BEd Lectr.
de Swardt, J. J., BSc Lectr.
du Buisson, J. F., BSc Lectr.
Prinsloo, G. C., BSc Lectr.

Medicine, see below

Metallurgy, see Engineering, below

Music

Malan, J. P., BA BMus *S.A.*, Phil *Vienna*
Prof., Du. Academy of Music St. Lectr.
Kautzky, Mrs. Gertrud Lectr.
Lamprecht, C. R., BMus *Stell* Lectr.
Gerstman, Blanche, BMus *Cape T.* Lectr.
1 Lectr., 2 Jr. Lectrs

Native Administration, see Soc. Anthropol.

Philosophy

Oberholzer, C. K., BA *S.A.*, DEd *S.A.* &
Pret., MA DPhil (on leave) Prof
Dreyer, P. S., DPhil *Gron.*, MA BD Phil
Co-Prof.
Schoeman, S. J., MA DEd Lectr.

Lectr. Physics

Verleger, H., DPhil *Giessen*, DrRerNatHabil Prof.
T.H. Darmstadt
van der Merwe, J. H., PhD *Brat.*,
MSc *Stell. & Pret.* Assoc. Prof.
Prinsloo, L. A., DSc Assoc. Prof.
Koen, J. G., BEd *Potchef.*, DSc Sr. Lectr.
Lemmer, H. R., MSc *O.F.S.*, DPhil *Oxon.*
Sr. Lectr.
van Zyl, G. J., MSc *Stell* Lectr.
Friedland, E. K. H., MSc Lectr.
Gaughey, H. L., MSc (on leave) Lectr.
Prekel, H. L., MSc Lectr.
Staass, L., BSc Lectr.
1 Jr. Lectr., 7 Tech. Assts.

Physiology, see Medicine and Veterinary
Science, below

Political Science, see Commerce and Public
Administration, below

Psychology

Schlebusch, B. J., MA DPhil *Stell* Prof.
Swagers, D. J., MA *Stell*, DPhil Assoc. Prof.
Gouws, D. J., BA *S.A.*, MSc *Potchef.*,
BSc DPhil Sr. Lectr.
Weyers, J. L., BA MCom(B&A) Lectr.
1 Jr. Lectr.

Public Administration, see Commerce and
Public Administration, below

Quantity Surveying, see Archt. and
Quant. Surv.

Semitic Languages, see Hebrew

Social Anthropology and Applied Social Anthropology (Native Administration)

Coertze, P. J., MA DPhil *Stell.* Prof.
Eloff, J. F., MA Sr. Lectr.
Coertze, R. D., MA Sr. Lectr.
de Villiers, C. M., BA *Stell. & Pret.* Lectr.
2 Jr. Lectrs.

Sociology and Social Work

Cronjé, G., MA *Stell.*, Litt&PhilDr *Amst.* Prof.
Pieterson, J. E., MA(SW) DPhil Sr. Lectr.
Loedloff, J. F., BD DPhil Sr. Lectr.
van Niekerk, Susanna E., MA(SW) Lectr.
van Wyk, S., BA(SW) MA Lectr.
van Bochove, Johanna, W., MSc *Col.*, BA
(SW) HDipSW Lectr.
3 Jr. Lectrs.

Speech Science and Logopedics

Pienaar, P. de V., MA *Rand*, PhD *Hamburg* Prof.
Weiss, Mrs. Lilo, MA *Rand* Lectr.
Hay, I. S., BSc(Eng) Lectr.

Statistics, see Commerce and Public Administration, below

Theology, see below

Veterinary Science, see below

Zoology

Eloff, F. C., DSc
Malan, D. J., MSc *S.A.*
de Graaff, G., MSc *Rand*
Nel, J. A. J., BSc *Stell.*
2 Jr. Lectrs., 2 Tech. Assts

Zootechnics, see Veterinary Science, below

AGRICULTURE

Agricultural Biochemistry

Potgieter, D. J. J., PhD *Calif.*, MSc(Agri) Prof.
de Villiers, V., BSc(Agri) Sr Lectr.
Voss, H. C., DrPhil *Bonn* Lectr.
.. Lectr.

Agricultural Chemistry, see Soil Technol.

Agricultural Economics

.. Prof.
Tomlinson, F. R., MScAgri *Stell.*,
PhD *Corn.*, DSc(Agri) Assoc Prof
Smith, D. J. G., MScAgr *Iowa*, MSc(Agri) Sr Lectr.
Gregory, J. J., MA *Chic.*, MSc(Agri) Sr Lectr.
Brand, S. S., BSc(Agri) Lectr.

Agricultural Education and Extension

.. Prof.
Kobbe, F. F. H., BSc(Agri) Sr Lectr.
Bekker, J. H., BSc(Agri) *Stell.* Sr Lectr.

Agricultural Engineering, see Engineering, below

Agricultural Entomology (and Entomology in Faculty of Science)

Mathee, J. J., PhD *Camb.*, MSc Prof.
Janse, A. J. T., DSc *S.A.*
(Taxonomy) Hon. Prof.
de Villiers, W. M., BSc Sr Lectr.
Lectr.

Agronomy and Biometry

Haylett, D. G., MSc *Ill.*, PhD *Corn.* Prof.
Nel, P. C., DScAgri *Stell.* Sr Lectr.
Havenga, C. M., MCom Sr Lectr.
Mohr, P. J., BSc(Agri) Lectr.

Animal Husbandry

Bonsma, J. C., MSc(Agri) (Animal H.) Prof.
Louw, G. N., BScAgri *Stell.*, PhD *Corn.*
Sr Lectr.
Lombard, J. H., MSc(Agri) Lectr.

Hirzel, R., BScAgri *Stell.*, MSc(Agri)
(Animal H.) †Lectr.
Lectr.

Dairying

Lombard, S. H., MScAgri *Stell.*, PhD *Ill.*
Union-Castle Prof.
de Kock, A. A., BSc(Agri) Sr Lectr.

Ecology, see Pasture Res. and Ecol.

Genetics

Hofmeyr, J. D. J., MScAgri *Stell.*,
PhD *Corn.* & *S.A.* Prof.
Geerthsen, J. M. P., BScAgri *Stell.* Sr Lectr.
van Schaik, Mrs Nancy, BSc *E.Ill.*, MSc
PhD *Wis* Lectr.
.. Lectr.

Horticulture

Oberholzer, P. C. J., PhD *Arizona*,
MSc(Agri) Prof.
von Staden, D. F. A., BSc(Agri) Sr Lectr.

Pasture Research and Ecology

.. Prof.
Pienaar, A. J., BSc *Potchef & Natal* Sr Lectr.
Rabie, J. W., BScAgri *Stell.*,
MScAgri *Natal* Sr Lectr.
Grunow, J. O., BSc(Agri) *Natal*, MSc
(Agri) Lectr.

Plant Pathology and Microbiology

le Roux, P. M., PhD *Wis.*, MSc(Agri) Prof.
Lategan, P. M., DSc(Agri) (on leave) Sr Lectr.
Rabie, C. J., MS *Wis.*, BSc(Agri) Sr Lectr.
Steyn, P. L., BSc Lectr.
Smuth, O. G., BSc(Agri) Lectr.

Poultry, see also Veterinary Science (p. 1356)

.. Prof.
du Plessis, P. H. C., DipAnGen *Edin.*,
BSc(Agri) Sr Lectr.
Erasmus, J., MSc(Agri) Sr Lectr.

Sheep Husbandry and Wool Technology

Joubert, D. M., PhD *Camb.*, MSc(Agri) Prof.
Nel, J. W., BScAgri *Stell.* Sr Lectr.
Lectr.

Soil Technology

Folscher, W. J., PhD *Calif.*, MSc Prof.
Theron, J. J., BSc(Agri) *S.A.*, PhD *Calif.*
Emer. Prof.
van der Watt, H. v. H., PhD *Calif.*,
BSc(Agri) Sr Lectr.
Oberholster, R. E., MSc(Agri) Sr Lectr.
Fuls, P. F., BSc(Agri) Lectr.

COMMERCE AND PUBLIC ADMINISTRATION

Accountancy

Wiehahn, B. S., BCom MBA <i>Harv.</i>	Prof
DBA	Co-Prof.
Zevenbergen, A. P., MCom	Sr. Lectr.
Pistorius, C. W. I., MCom	Sr. Lectr.
du Plessis, S. C. V., BCom <i>S.A.</i> , MCom	Lectr
4 Temp Lectrs.	

Banking (Commerce, Banking and Economics)

Wijnholds, H. W. J., JurDrEcon <i>Utrecht</i>	Prof
Jacobs, A. S., DCom	Sr. Lectr
	Lectr.

Commerce and Industrial Economics

Reynders, H. J. J., MBA <i>Harv.</i> , DCom	Prof.
Goudmann, J., DrIr <i>T H Delft</i>	Emer Prof
Nieuwenhuizen, P. J., MCom	Sr. Lectr
Marx, F. W., MCom <i>S.A.</i> , MCom	
(B&A)	Sr Lectr

Economic Theory and History

Lombard, J. A., PhD <i>Lond</i> , MA	Prof
Stadler, J., MCom <i>Stell</i>	Sr Lectr
Meyer, J. H., MA	Lectr

Mercantile Law, see Law, below

Public Administration and Political Science

Gey van Pittius, E. F. W., MA <i>S.A.</i> , PhD <i>Lond</i> .	Prof.
Cloete, J. J. N., MAdm DPPhil	Sr Lectr.
Nieuwoudt, C. F., MA	Lectr.
Kriek, D. J., MA	Lectr

Statistics

de Loor B., MSc <i>S.A.</i> , PhD <i>Amst</i>	Prof
Stoker, D. J., MSc <i>S.A. & Stell</i> , PhD <i>Amst</i>	
Schoeman, H. S., MCom	Sr Lectr
.....	Lectr

DENTISTRY

Conservation and Orthodontics

Schoeman, P. J., BDS <i>Rand</i> , BSc	Prof
Williams, E. G., BDS <i>HDD Rand</i>	Sr Lectr
de Villiers, J. F. v. d. S., MDS <i>DPD Rand</i> , CertOrtho Col.	†Sr. Lectr.
Stead, J. H. C.	Lectr.
Prins, F. X., MSc <i>Stell</i> , BChD	Lectr.
8 Lectrs.†, 2 Clin Assts	

Dental Pathology and Histo-Pathology

de Jager, C. L., BA <i>S.A.</i> , BDS <i>Rand</i>	
	(on leave) Prof
1 Lectr †, 1 Tech. Asst	Sr Lectr

Oral Surgery

Snyman, P. C., BDS <i>Rand</i> , FDSRCSEd	Prof
Versluis, J. J., BDS <i>Rand</i>	Sr. Lectr.
5 Lectrs.†, 1 Clin Asst.†, 1 Tech. Asst.	Lectr

Orthodontics, see Conservation

Prosthetics

du Plessis, G. T. C. F., BSc <i>S.A.</i>	
	Prof., †Hd. of Dept.
Barrowman, T. R., BDS <i>Rand</i> , BA	Sr Lectr
van Rensburg, W. H. M. J., BChD	Lectr.
4 Dent. Mechs	

EDUCATION

Educational Psychology

Nel, B. F., BA DPhil <i>S.A.</i> , DrsPed Latr& PhD <i>Amst</i> , Hon. DrLitt&PhD <i>Ghent</i> , MED	Prof
Sonnekus, M. C. H., BCom DrsPed <i>Utrecht</i> , DEd	Sr Lectr
1 Tech. Asst	Sr. Lectr.

Educational Sociology

Nel, B. F., BA DPhil <i>S.A.</i> , DrsPed Latr& PhD <i>Amst</i> , Hon. DrLitt&PhD <i>Ghent</i> , MED	Prof.
du Plessis, P. J. J., BA <i>Stell</i> , DEd	(on leave) Sr. Lectr
1 Tech. Asst., 3 Lectrs.†	

General History and Theory of Education

du Toit, J. J., DrsPed <i>Amst</i> , DEd <i>Potchef</i>	Prof.
van der Stoep, F., BA <i>Bed</i>	Lectr

History of Education in South Africa

Pelzer, A. N., MA DPhil	Prof
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Nursery School Training

Naude, Helena J., BA(SW) <i>Bed</i>	Lectr.
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Philosophy of Education

Oberholzer, C. K., BA <i>S.A.</i> , MA DPhil <i>DEd</i>	Prof.
---	-------

Physical Education

Smit, C., BA <i>Cape T</i> , DiplPhysEd <i>Berl.</i>	Prof.
Schrocker, K. A., DiplPhysEd <i>Berl</i>	Sr. Lectr.
van der Merwe, G. W., BSc <i>BedPh Stell</i> , MSc <i>Indiana</i>	Lectr.
Robertson, Gertrud, PhysEdDip <i>Basle</i>	Lectr
Jooste, M., BScEdPh <i>Stell</i> , <i>Bed</i>	Lectr

ENGINEERING

Agricultural Engineering

van Heerden, S. J. P. K., PhD(AgEng) *Mich*, Prof
 MSc(AgricEng)
 Grobler, B. J., BSc(AgricEng) Sr. Lectr.
 Venter, G., BSc(AgricEng) Lectr.

Chemical Engineering

Schoeman, D. J., MSc(Eng) PhD *Rand* Prof.
 Sr. Lectr.
 Lectr.

Civil Engineering

de Vos, D. W., BSc(Eng) *Rand* Prof
 van Rooyen, M., BScEng *Stell*, MS *Iowa*,
 PhD *Prim* Sr. Lectr.
 von Willich, G. P. R., BSc(Eng) *Rand*,
 ScD *M I T*, Sr. Lectr.
 Wolmarans, D. G. S., BSc BScEng *Stell* Lectr.
 van Wyk, B. C., MSc(Eng) *Rand* Lectr.
 Wessels, C. J., BSc(Eng) *Rand* Lectr.

Electrical Engineering

Heymann, F. G., MSc(Eng) *Rand* Prof
 van Niekerk, T., BSc(Eng) *Rand* Sr. Lectr.
 Wessels, N., BScEng *Cape T* Sr. Lectr.
 Adendorff, K., BSc(Eng) *Rand* Lectr.
 van Bijl, L., MSc(Eng) *Rand* Lectr.
 Loubser, J. A., BScEng *Stell* Lectr.

Land Surveying

Maré, W., BSc(Eng) *Rand*, MSc Sr. Lectr.
 van der Walt, J. H., BSc *S A* Lectr.
 le Roux, Z. P., BSc(Eng) *Rand* Lectr.
 Page, D., BA DipTP *Rand* Lectr.

Mechanical Engineering

du Toit, C. A., BSc(Eng) *Rand*, BSc Prof
 Botha, J. P., MSc(Eng) *Stell*, PhD *Camb* Sr. Lectr.
 Van Swieten, P., DipEng *T H Delft* Sr. Lectr.
 Visser, J., BSc(Eng) *Rand* Sr. Lectr.
 van der Merwe, D. F., BSc *Stell* Lectr.
 Lewis, W. G., BSc Lectr.
 Rautenbach, N. O., BSc(Eng) *Rand* Lectr.
 Lectr.

Metallurgy and Metallurgical Engineering

..... (Metall) Iscor Prof
 van Rooyan, G. T., BSc(Eng) *Rand*,
 ScD *M I T*, MCom(B&H) (Metall Engin) Prof
 Sr. Lectr.
 Lectr.
 Hoffman, J. P. Lectr.

LAW

Bantu Law

Masré, J. A. G., BA *Stell*, LLB Prof

Criminal, Constitutional and Administrative Law, Public International Law

Schmidt, C. W. H., BA LL.D O F S Prof
 van Rooyen, P. R., BA LLB †Lectr.
 2 Lectrs.†

Mercantile Law

Hamman, E. M., LL.D *Ley*, BA LLB Prof.
 Mostert, D. F., BA LLB Sr. Lectr.
 Sr. Lectr.

Procedure and Evidence

Loots, J. J., BA LLB †Sr. Lectr.

Roman-Dutch Law, International Private Law, Comparative Law

van der Merwe, N. J., BA LLB *Stell*,
 LL.D O F S Prof.
 Olivier, P. J. J., BA LLB Lectr.
 Nel, D. J. L., BA LLB †Lectr.

Roman Law and Jurisprudence

van Warmelo, P., LL.D *Ley*, BA LLB Prof
 de Villieus, I. W. B., BA O F S., LLB Lectr.
 2 Lectrs †

MEDICINE

Anæsthetics

Kok, O. V. S., MB ChB *Cape T*, DTM *Lw*,
 FFARCS Prof.
 Combrinck, Mrs. Johanna E., MB
 BCh *Rand*, DA Sr. Lectr.
 Cilliers, H. J., MBChB *Cape T* Sr. Lectr.
 5 Lectrs †, 2 Asst. Anæsths., 7 Clin Assts

Anatomy and Histology

Muller, Mrs. Tobie, MB ChB *Cape* Prof
 Mihaluk, P., MD *Bud*. (Histol) Sr. Lectr.
 Jonck, L. M., BChD MSc (on leave) Sr. Lectr.
 van Niekerk, I. J. M., MB ChB Sr. Lectr.
 Strauss, P. J., MB ChB Lectr.
 2 Lectrs †, 4 Tech Assts.

Bacteriology, see Pathol and Microbiol

Children's Diseases

Davel, J. G. A., MSc *S A*, MA MB BCh *Oxon*,
 DCH, MRCP, FRCSed Prof
 Pannall, L., MD *Rand*, DCH †Sr. Lectr.
 Fasser, E., MD *Rand* †Sr. Lectr.
 3 Lectrs †, 4 Clin Assts

Diseases of the Ear, Nose and Throat

Hofmeyr, J. H., BSc MB ChB *Cape T*,
 FRCSed †Sr. Lectr.
 Swanepoel, K. J., MB BCh *Dub*, DLO †Sr. Lectr.

2 Clin. Assts

Diseases of the Eye

Meyer, H, MB ChB MMed †Sr. Lectr
1 Lectr, 2 Clin. Assts

Diseases of the Skin, see Med, below**Forensic Medicine**

Loubser, C J N, BSc Stell, BA MB
BCh Dub., MD DPH Rand †Prof
Lectr

2 Temp Lectrs

Gynaecology and Obstetrics

Geldenhuys, F G, MB BCh Rand, Prof
FRCOG MD, Sr Lectr
de la Harpe, M M., MB ChB MMed Sr Lectr
Evans, W B D I., Dip O&G Rand Sr Lectr
Oosterhagen, P H., MB ChB Cape T. Sr Lectr.

Kruger, C. F, BA BM BCh DTM, Hon. Lectr
FRCS
4 Lectrs†, 3 Clin. Assts., 1 House Doctor

History of Medicine

Grotepas, F. W. K., DrPhil Gott. Hon. Lectr.

Hospital Administration and Organization

Hugo, H. J., MD Dub Hon. Lectr

Infectious Diseases

Nelson, H., MA MD BCh BAO Dub., DPH
DTM Rand Sr. Lectr
Bodenstab, A. T. B. H., MB ChB Cape T.,
DPH DTH&Hy Rand †Lectr
2 Addnl. Assts.

Medical Ethics

to Groen, L. J., Arts Anst, Hon MD,
FRCOG Emer. Prof.

Medicine

Snyman, H. W., MB BCh Rand, MD Gron. Prof.
Theron, Annie M., MB ChB MMed

(Neurol) Sr Lectr
Jordaan, F. R., MB ChB MMed Sr Lectr.
Malherbe, L. F., BSc(Eng) MB BCh Rand,
MMed Sr Lectr

Kloppers, P. J., MD Rand †Sr Lectr
du Toit, J., MB ChB Cape T., MRCPed
†Sr Lectr.

Findlay, G. H., BSc MB BCh Rand, MD
(Diseases of the Skin) †Sr Lectr.

Wessels, L. M., MB BCh Rand, MD †Sr Lectr
Ziady, F., MB ChB Cape T., MD, MRCP
†Sr Lectr.

4 Lectrs †, 12 Clin. Assts

Microbiology

Coetzee, J. N., MD Cape T Prof.
Sachs, T. G., MMed Cape T., MB ChB
Sr Lectr

Crocker, Clarice G., MSc Rand, PhD S A

Lectr.
Lectr.

1 Jr Lectr.

Orthopaedics, see Surg**Pathological Anatomy**

Barnetson, J., MB ChB Edin., DTM&H Rand,
MD Prof, Dir, Inst of Pathol

Pyppe, A., MD Ley, Hon. MD Cape T,
Dip Trop Med Hamburg, DSc Emer Prof

Pepler, W. J., BSc(Med) MD DSc Sr Lectr
de Villiers, L. S., MB ChB MMed
(Chem P) St Lectr

Samson, I. W., MB BCh Rand (on leave) Lectr.
Kingsley, C. S., MB BCh Rand, MD
(Hamathol) Lectr.

1 Clin. Asst, 11 Tech Assts

Pharmacology

Steyn, D. G., BSc Stell, DMed Vet Vienna,
DVSc Prof

Botha, D., MB ChB MMed †Sr Lectr.
1 Temp Demt, 1 Tech Asst.

Physiology

Meyer, B. J., MSc Med Stell., DSc MB ChB
Prof.

Labuschagne, C. J., MSc Stell, PhD Cape T
Sr Lectr

Rabie, J., MSc Stell. (on leave) Sr. Lectr
Booyens, J., MSc Potchef., PhD Gamb. Lectr.
Holemans, K., MD Louvain Lectr

2 Tech Assts

Preventive and Promotive Medicine

Strating, A., BA(SW) MCom(B&A) MB
ChB DPH DTM&H Sr. Lectr

Psychiatry

Lamont, A. McE., MD Glas. †Prof
du Plessis, D., MB ChB Cape T †Lectr.

1 Clin. Asst.

Public Health, see Preventive and Promotive Med.**Radio-Diagnosis**

Oosthuizen, S. F., MD Cape T, DMR Lond,
Hon DSc Natal, DSc, FRCP, FFR Prof

van Niekerk, J. M., MB ChB DMR Sr. Lectr.
Friedland, G., MB ChB Aberd., DMRE
Lso †Lectr.

Weinbren, M., BSc S A., DMRE Camb.,
FFR Hon. Lectr

6 Clin Assts.

Radio-Therapy

Fichardt, T., DMRE *Gamb.*, MD DSc,
MRCP Prof
Jacobs, E. L., MB ChB *Edm.*, BA S A.,
DMR MD †Sr. Lectr
Weinbren, M., BSc S.A., DMRE *Camb.*,
FFR Hon Lectr.

Surgery

Derksen, C., MB ChB *Cape T.*, MCh * Prof.
Schulenburg, C. A. R., MB ChM *Cape T.*,
DMR MD †Sr. Lectr
Besselaar, H. J., MD *Zür.* †Sr. Lectr.
Erasmus, J. F. P., MB MCh *Cape T.*,
MD *Rand* (Neuro-Surg.) †Sr. Lectr.
Bremer, J. K., MB ChB *Cape T.*, FRCS
†Sr. Lectr.
van der Spuy, J. C., MB ChM *Rand*
†Sr. Lectr.
Botha, D. J., MB ChB MMed Sr. Lectr.
du Toit, J. G., MB ChM *Cape T.*,
* FRCSed (Orthop) Sr. Lectr.
Marais, T. J., MB ChB *Cape T.*,
MMed †Sr. Lectr
Maas, I. P., MB ChM †Sr. Lectr
7 Lectrs †, 11 Clin Assts, 1 Tech Asst

Venerereal Diseases

2 Lectrs.†

THEOLOGY**(a) Dutch Reformed Church of Africa**

Geyser, A. S., MA DD
(New Test. Exegesis & Theol) Prof.
Mulder, E. S., BA BD S.A., TheolDrs *Utrecht*,
DD *Gron.*
(Old Test. Exegesis & Theol.) Prof.
Pont, A. D., DD *Utrecht*, BD MA
(Hist. of Christianity) Prof.
van Zyl, F. J., BA DD
(Philos. of Religion & Missions) Prof
Engelbrecht, B. J., DD *Gron.*, BA BD
(Christian Ethics & Dogma) Prof.

(b) Dutch Reformed Church

Groenewald, E. P., MA *Stell*, ThD *Amst.*
(New Test. Exegesis & Theol) Prof
Kritzinger, J. H., MA *Stell*, ThD *Amst.*
(Old Test. Exegesis & Theol) Prof
Marais, B. J., MA DPhil *Stell.*, MTh *Prin.*
(Church Hist, Hist of Dogma &
Canon Law) Prof.
du Preez, A. B., MA *Stell*, ThD *Amst.*
(Philos of Religion, Dogma &
Christian Ethics) Prof.
du Toit, H. D. A., BA *Cape T.*, ThDrs *Amst.*,
DD (Philos. of Religion & Missions) Prof.

VETERINARY SCIENCE**Genesiology**

van Heerden, J. S., BVSc Prof
McFarlane, I. S., BVSc Sr. Lectr.

Veterinary Anatomy

de Boom, H. P. A., BVSc Prof.
le Roux, J. M. W., DrMedVet *Hanover*,
BVSc Sr. Lectr
Gerneke, W. H., BSc S.A. Lectr

Veterinary Infectious Diseases

Alexander, R. A., BSc(Agric) S.A.,
Hon DSc *Cape T.*, DVSc (Virol) Prof.
Neitz, W. O., DVSc (Protozool.) Assoc Prof
van Dommelen, G. C., DVSc (Bacteriol) Assoc. Prof
Jansen, B. C., DVSc (Bacteriol) Sr. Lectr.
Lambrechts, M. C., BVSc (Vet State Med.) Sr. Lectr.
Weiss, K. E., DVSc (Protozool & Virol) Sr. Lectr

Veterinary Medicine

van der Walt, K., BVSc Prof
Malherbe, W. D., BVSc Sr. Lectr
Muller, C. J., BSc *Stell*, BVSc (Pharmacol) Sr. Lectr
Adelaar, T. F., BVSc (Toxicol) Sr. Lectr.
Abrams, L., BVSc (Poultry Dis.) Sr. Lectr.
.. †Sr. Lectr.

Veterinary Parasitology

du Toit, R. M., DVSc S.A. (Entomol) Prof
Reinecke, R. K., DVSc (Helmintol.) Sr. Lectr

Veterinary Pathology

Schulz, K. C. A., BSc BVSc S.A.,
DrMedVet *Leip.* *Prof.
Smit, J. D., BVSc Sr. Lectr.
van den Heever, L. W., BVSc Sr. Lectr.

Veterinary Physiology

Clark, R., DVSc Prof
(Chem Pathol.) Sr. Lectr
Malloch-Brown, J. M. M., BVSc Sr. Lectr.
Louw, J. G., DSc *Stell.* (Biochem.) Sr. Lectr
Mansvelt, P. R., BVSc Lectr

Veterinary Surgery and Obstetrics

Hofmeyr, C. F. B., BVSc Prof.
Irwin, D. H. G., BVSc Sr. Lectr.

Zootchnics

Bisschop, J. H. R., BSc(Agric) BVSc S.A. Prof
Sutton, G. D., BVSc (Animal Management & Hyg) Sr. Lectr.
Kellermann, J. H., DSc(Agric) *Stell*,
PhD *Wis.* (Animal Nutr) Sr. Lectr
Morris, J. J., BSc S.A. (Veld Management) Sr. Lectr.

In addition to the above, there is a considerable number of Demrs., chiefly in the Fac. of Sci.

ADMINISTRATIVE AND OTHER STAFF

UNIVERSITY OFFICE Aast. Registrar. C H Stuart, MAdm'n Asst. Accountant B Q. Wessels, BCom Stell., MCom(B&A) Liaison Officer C H Cilliers, BSc BCom Technical Adviser F. W. Meerkotter Student Coun-

sellor J A J van Vuuren, MEd Potchef., BSc MA BEd

CHAPLAINS Rev J E Potgieter, Rev Dr I J de Wet

GENERAL INFORMATION

Founded 1908, when univ. classes in arts, sci and law were establ. at Pretoria by the Transvaal govt. and placed under the control of the council of the Transvaal Univ Coll., Johannesburg, the constitution of that body being altered so as to give Pretoria equal representation. A separation took place in 1910, the Johannesburg section being reincorporated as the S.A. Sch. of Mines and Technol., whilst the Pretoria section retained the name of the Transvaal Univ Coll. The facs. of agric (1917), theol (1918), comm & pub. admin. (1919), vet sci (1920), music (1923), had also been establ. when by act no. 13 of 1930 the coll. was incorporated as the Univ of Pretoria. The following facs have been establ. since 1930: educn., med, dent, and engin.

CONSTITUTION. The univ consists of the chancellor, the vice-chancellor, the rector, the council, the senate and convocation, together with the profs., other teachers and students of the univ. The rector is *ex-officio* chairman of the senate

INCOME. £1,249,180 (govt grants, 66.3 per cent.; annual grants from public bodies, 0.6 per cent.; interest on investments, 0.1 per cent.; students' fees, 33 per cent., rentals, 0.1 per cent.)

FACULTIES AND DEANS *Agric.*, Prof P. C. J. Oberholzer (hort), *arts*, Prof. A. N. Pelzer (hist), *comm & pub. admin.*, Prof. B. de Loor (stats), *dent*, Prof C L de Jager (dent pathol), *educn.*, Prof B F Nel (educn. psychol), *engin.*, Prof C A du Toit (mech. engin), *law*, Prof E M. Hamman (mercantile law), *med.*, Prof J G A. Davel (child dis.); *sci*, Prof W E Schilz (inorg & analyt chem), *theol*, Prof E S Mulder and Prof E P Groenewald, *vet sci*, Prof M S du Toit (vet. parasitol)

In the fac of agric., particular attention is paid to study of farming in summer rainfall area of S.A. There is an experimental farm (tel. 4-4517) 1 mil. east of main univ site. The fac has two functions (a) it serves as teaching instn for trg of agriculturists and agric engineers Courses for bachelor's degrees cover 4 yrs. and candidates may specialize in any branch of agric Postgrad work may be undertaken, and about 33 per cent. of students enrolled follow postgrad courses. (b) It is also a res inst. whose work falls under direct control of dept of agric of the union govt. In this respect it functions as a division of the dept

The fac. of vet sci (tel. 5-2411) was grafted on to the vet. res. lab. at Onderstepoort, one of the

largest vet. res. insts. in the Commonwealth. The most important subjects of res comprise protozool, virus and bacterial diseases, genesiol, helminthol, entomol., poisonous plants, mineral metabolism and other nutritional problems, sterility in cattle and sheep, and other obstet and physiol problems

The clin bldgs. of the fac. of med are in the grounds of Pretoria General Hosp (tel. 2-9741) The inst of pathol is in Beatrix St, Pretoria (tel. 3-0811) The Dental and Oral Hosp., is also in Beatrix St (tel. 2-6404)

LIBRARY 232,512 vols., 1952 current periodicals. Sp collectiona Africana, Goethe, Roman and Dutch law

LABORATORIES, ETC. Appl. maths, bot., plant physiol., chem., entomol., geog., geol., phys., psychol, zool, agric. bot., agric chem., agron., vet. anat., sheep & wool, dom. sci, gen. & clin anat., histol., physiol., biochem., bacteriol., clin. pathol., pathol anat., pharmacol., med., agric. engin., surv., dent histol., dent. mech., oper. dent., dent. prosth., dent. surg. BOTANICAL GDNS in univ grounds and on univ. exper. farm VETERINARY RES INST CHILD GUIDANCE CLINIC. INST OF PATHOL. MARGARETHA MES INST. OF PLANT PHYSIOL. RES. INST. OF BUSINESS ADMINISTRATION.

TEACHING HOSPITALS Pretoria General H., Moedersbond Maternity H., Univ Dental & Oral H.

ADMISSION. See p. 1332. Non-members of univ. not admitted to classes.

FIRST DEGREES 3 yrs —BA, BA(SW), BAdm'n, BCom, BSc, BSc(Dietet), BA(LibrSc), BA(EdPhys), Blur. 4 yrs.—combined course BA(SW) and dipl. for nursery sch. teachers, and combined course BA and lower dipl in libr sci., BA(FineArts), BA(Log), BMus, BSc(Agric), BSc(DomSc), BSc(LandSurv), BScEng (in agric., chem., civil, electr., indust., mech., metallurg., mining engin.). 4½ yrs.—BA(Nursing), BSc (Nursing). 5 yrs.—BSc(QS), BVSc, BChD 6 yrs —BArch, MB ChB

HIGHER DEGREES. Hons. degrees. BA (in any of the following: Bantu langs, Dutch & Afrikaans, econ., Engl., French, geog., German, Greek, Hebrew, hist., hist. of Afrik cult, hist. of art, Latin, maths., maths. & stats, mathl stats., philos., pol., psychol., sociol., soc. anthropol., appl. soc. anthropol), BA(SW), BA(LabSc),

BA(EdPhys), BSc (in any of the following appl maths, chem, geog, geol, maths, maths & stats, mathl stats, metallurgy), BSc(Dietet), BCom, BAdmin—not less than 1 yr after corresp first bachelor's degree MA, MA(SW), MA (LibrSc)—not less than 1 semester after hon degree which is a prerequisite for admission to master's degree in fac of arts MA(FineArts), MAdmin, MCom, MSc, MSc(DomSc), MArch, MSc(QS)—not less than 18 mos after corresp bachelor's degree, the hon degree before admission to master's degree is optional in facs of sci and comm & pub admin. MSc(Agric)—not less than 1 yr after corresp bachelor's degree BED—not less than 1 yr after bachelor's degree and higher dipl in educn or equiv. dipl, MSc(Eng), MSc(Land Surv)—not less than 2 yrs after bachelor's degree; MSc(TP)—not less than 3 yrs. after bachelor's degree. MBA—4 yrs, MMed—not less than 2 yrs after MB ChB and registration for 1 yr. with the S.A. Med. and Dent. Council (depts. of radiol, diagnostic radiol, therapeutic radiol, otorhino-laryngol, ophthalmol, anaesthetics, neurol—3 yrs; med, surg, dis of children, obstet & gynaeol, pathol, dermatol, psychiatry—4 yrs) MEd—1 yr after BED LLB—2 yrs after law BA or 3 yrs after ordinary BA or other degree; LL.M.—not less than 1 yr after LLB, MD—not less than 2 yrs after MB ChB BD—3 yrs after BA, DLitt, DPhil (arts, comm and pub admin.), DSc, DCom, DBA, DMus, DEd, DEdPhys, DSc(Eng), DSc(LandSurv)—not less than 4 yrs from bachelor's degree or 2 yrs from master's degree, DSc(Agric)—not less than 3 yrs from BSc(Agric), LLD—not less than 2 yrs from LLB, DD—not less than 2 yrs from BD, DVSc—not less than 4 yrs. from BVSc or 2 yrs from BVSc if at least 1 yr after BVSc has been spent on res at an approved instn.

HONORARY DEGREES DLitt, DPhil, DSc, DSc(Agric), LLD, DD, DCom, MD, MSc(Agric), MEd. These degrees may be conferred both as honorary and 'earned'

DIPLOMAS. (a) Postgrad.: indust health, 6 months full-time or 1 yr pt-time, higher educn., 1 yr, med admin, med. phys., pub. health, 1 yr full-time or 2 yrs pt-time, soc work (higher), 1 to 1½ yrs., theol., 3 yrs, (b) other obstet for sister tutors, 1 yr, sp. educn, 1 yr. after recog teaching cert and experience; nursing for sister tutors, psychiatric nursing for sister tutors, each 1 yr after recog nursing cert and experience; diagnostic radiog for nursing sisters, occupat therapy teaching, physiotherapy teaching, each 1 yr after recog physiotherapy cert and experience; libr. sci. (lower), radiog, each 2 yrs, bus. management & admin., 2 yrs after recog experience, comm., dom. sci teaching, law (attorney's admission), law (civil service), music (in abeyance), nursery sch teaching, phys educn., primary teaching (higher), pub. admin, soc. work, each 3 yrs., town planning, 3 yrs.

after recog profess cert in land surv; quantity surv, 5 yrs., archit, 6 yrs

CERTIFICATES Quantity surv, 5 yrs

FEES The following are the composite fees Except where payable per course, amounts indicated are annual fees.

Bachelor's degrees BA, R116-R150, BSc, R132-R150, BSc(Agric), BD, Blup, R132, BCom, BAdmin, R108, BD, R100, BMus, BSc(Eng), R150, MB ChB, BVSc, R180; BChD, R190; hon's bachelor's degrees, R100-R132 **Master's degrees** MA, LLM, MCom, MAdmin, MSc(Eng), R140, MSc, MSc(Agric), R160-R200, MEd, R70, MMus, MArch, MMed, MScLand Surv, MScTown&RegPlan, R200, MChD, R300 **Doctor's degrees** per course—DLitt, DPhil, LLD, DD, DEd, R120, DMus, DSc, DSc(Agric), DVSc, R132, DSc(Eng), R160; MD, R200 **Diplomas** libr. sci, educn, Diplur, R116, soc sci, R122, higher dipl soc sci, R88, archit, quant surv, nursing, physiotherapy, R132; DipProc, R80

ACADEMIC YEAR Feb. to Dec, 2 semesters—Feb to end of June, beginning of Aug. to early in Dec

LANGUAGE OF INSTRUCTION. Afrikaans.

VACATION COURSES. Short courses may be offered in bus. management & admin. and local govt & admin if there is sufficient demand Occasional vacation courses for teachers

'OPEN' POSTGRADUATE AWARDS. Union scholps, £300 p.a. for 2 yrs., H. B. Webb scholp, £150 and £350 p.a. for 2 yrs., Rhodes scholp, £400 p.a. for 2 yrs., Elsie Ballot scholp, £400 for 3 yrs., Shell scholps., £200 p.a. for 3 yrs, Oppenheimer scholps for teaching staff, £1000, S.A. Biewerkes Ltd scholp, £300 for 1 yr, jr and ar. scholps awarded by C.S.I.R. and the Nat Council for Soc. Res. of the Union

UNIVERSITY RESIDENCES. (Postal address Univ of Pretoria, Brooklyn, Pretoria, for all univ residences except Onderstepoort, which is P.O. Onderstepoort) Women's residence (206 students): warden, Mrs Helena S. Peacock Aterhof (217 students) warden, Mrs Anna F. F. Jooste. College Hostel for men (47). Warden, Prof T. Buning. Sonop Hostel for men (154) p.m.arius elected annually from students Voor-trekker Hostel for men (140) warden, Prof P. S. Dreyer Onderstepoort Hostel (106) warden, Dr T. F. Adelaar. New College Hostel for men (258) warden, C. L. de Wet. Tsaibos men's hall of residence (270) warden, J. A. J. van Vuuren. Klaradyn women's residence (250) warden, Mrs Elizabeth H. P. van der Westhuizen Boarding fees £105 p.a.; Asterhof and Klaradyn, £115 p.a.

UNIVERSITY MILITARY FORMATION. 1 observation and sound ranging battery (1 observation regiment, S.A. Artillery)

ATHLETIC FACILITIES Gymnasia, rugby and hockey fields, tennis courts, cinder track, jukases and cricket pitches, netball and basket-ball fields, tennis courts and volley-ball pitch

EXTRA-MURAL STUDIES. A sp feature of the univ is the work done in the extra-mural facilities. At 328 Proes St., Pretoria (tel. 2-4288), lectures are given, out of ordinary business hours, for the benefit of public servants, articled clerks, commercial men and teachers. Over 1800 students are enrolled, practically all for full degree courses, for BA, law BA, LLB, BCom,

BAdmin, master's degrees, degree and dipl in business management, law cert., banker's cert., or dipls in admin.

UNIVERSITY EXTENSION. The facs of agric. and vet sci co-operate with the union dept of agric. in connexion with the extension training service organized by it. Public lectures are organized in Pretoria and surrounding districts.

PUBLICATIONS *Calendar* (Nov.), free; *Bulletins* containing result of res by members of staff.

THE YEAR 1960

PRINCIPAL BENEFACTIONS City council of Pretoria, annual capital grant of £10,000 plus £20,000 for fac of engin and £5000 for fac of music
(Total value of all benefactions received £54,129)

MAJOR BUILDING DEVELOPMENTS Bldgs completed: extension to engin bldg., new women's residence 'Klaradyn', new men's residence 'Tsaabos', portion of bldg for dept of music and academy of music

NEW DEPARTMENTS AND CHAIRS Dept & chair: music

RETIREMENTS Prof D Pont (Roman Dutch law & private internat law)

RESIGNATIONS J. P. VerLoren van Themaat (constit., admin., pub. internat. law), apptd legal adviser, dept of foreign affairs

DEATHS Prof W. G. Leemann (metall engin), Assoc Prof H Gief (chem pathol, dept physiol, dean, fac. of vet sci.)

HONORARY DEGREES *DPhil*—Rt. Hon M. D. C. de Wet Nel, minister of Bantu admin & devel. *DSc*—Dr D. F. du T. Malherbe, formerly prof of chem; A. E. Rupert, industrialist. *LLD*—Hon W. Pittman, formerly judge pres eastern prov div of Cape supreme court. *DCom*—Dr J. E. Holloway, previously sec. for finance, S.A. ambassador to U.S.A., and high commissioner for South Africa in London

Statistics

STUDENT NUMBERS, 1961

	<i>Intra-Mural</i>	
	<i>Full-Time</i>	<i>Part-Time</i>
Men	4844	108
Women	1564	25
Total	6408	133

Extra-Mural

	<i>Full-Time</i>	<i>Part-Time</i>
Men	1603	71
Women	200	4
Total	1803	75

Distribution by Faculties *Agric.*, 564; *arts*, 2682; *comm*, 936; *dent.*, 118; *educn*, 298; *engin*, 661; *law*, 277; *med*, 840; *sci*, 1745; *theol*, 113; *vet sci*, 187. Total 8421

Included in the figures above are:—

Postgraduate students, 1667 (1461 m., 206 w.)
New admissions, 2317 (1676 m., 641 w.)
Students from other countries, 116. (Countries from which largest numbers came: S Rhodesia, 41; N Rhodesia, 17)

DEGREES AWARDED (1960) *Agric.*, BSc(Agric), 57, MSc(Agric), 12, DSc(Agric), 3. *Arts*, BA, 243, BA(SW), 31, BA(LibrSc), 14, BA(EdPhys), 5; BA(FineArts), 6; BA(hons), 41, MA, 22, DLitt, 3, DPhil, 4. *Comm*: BAdmin, 4, BCom, 50, BCom (hons), 1, MCom, 9; MCom(BusMan)*, 1, MBA, 15. *Dent.*: BChD, 21. *Educn*: BEd, 12, MEd, 3; DEd, 4. *Engin*: BSc(AgricEng), 2, BSc (LandSurv), 3. *Law*: BLur, 2; LLB, 13, LLD, 1. *Med*: MB ChB, 69, MMed, 9; MD, 1. *Sci*: BSc, 111, BSc(QS), 2, BArch, 11, BSc(DomSc), 8, BSc(Dietet), 4, BSc (hons.), 7, MSc, 25, DSc, 8. *Theol*: BD div A, 5, BD div B, 2, DD div B, 1. *Vet sci*: BVSc, 25, DVSc, 2. Total number of first degrees awarded, 700

DIPLOMAS AWARDED (1960) *Arts*: Lower DipLibrSc, 4, DipLibrSc, 1; DipSW, 1, Higher DipSW, 1. *Educn*: HED, 47, HPED, 15, DipNurserySchT, 9. *Law*: DipProc, 9, DipJur, 4. *Med*: DipRadiog, 13, DipNursing for TutorSisters, 16, DipDiagnRadforSisters, 2. *Sci*: DipDomSc, 3, DipQS, 9, DipArch, 15. *Theol*: DipTheol, div B, 3

* The title of the MCom(BusMan) degree has been changed to MBA. Candidates who commenced their studies under the old regns are, however, designated MCom(BusMan)

RHODES UNIVERSITY§

Founded 1904, incorporated 1951

Postal Address : P.O. Box 94, Grahamstown, Cape Province, South Africa
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Cables and Telegrams . Rhodescol
Telephones (General) . Grahamstown 589, Port Elizabeth 28581

CHANCELLOR—Sir BASIL F. J. SCHONLAND, CBE, MA PhD ScD *Camb*, Hon. DSc *Cape T & Rand*, Hon. LLD *Natal & Rhodes*, FRS
VICE-CHANCELLOR AND PRINCIPAL—T. ALTY, PhD *Camb*, DSc *Liv*, Hon. DCL *Durh*, Hon. LLD *Glas & Tor*, FIP, FRSCan
PRO-VICE-CHANCELLOR AND VICE-PRINCIPAL—J. V. L. RENNIE, MA *Cape T*, PhD *Camb*, DipGeog *Lond.*, FRSSAf
CHAIRMAN OF COUNCIL—S. B. HOBSON, MA *Cape*, Hon. LLD
VICE-CHAIRMAN OF COUNCIL—H. A. KENDALL
PRESIDENT OF CONVOCATION—The Hon. Mr. Justice A. G. JENNETT, BA LLB *S A*
DEAN OF STUDIES, PORT ELIZABETH DIVISION—M. N. S. IMMELMAN, MSc *Cape T*.
REGISTRAR—R. MARTIN, OBE, MC
LIBRARIAN—F. G. VAN DER RIET, MA *Stell.*, DU*Paris*

TEACHING STAFF

[* = member of Port Elizabeth Division teaching staff; † = Part-Time]

Accounting		Chemistry	
Roberts, H. M., BCom <i>Rand</i>	Prof	Prout, E. G., MSc PhD <i>S A</i>	* Prof
Orpen, R. D., BA BCom <i>Cape T</i>	Sr. Lectr	Steyn, W. J. A., MSc <i>S A</i> , PhD	Sr. Lectr
Chisholm, Eugene R.	*Sr. Lectr		Sr. Lectr
Liddell, Emer. Prof. D., MA BCom <i>Edin</i>	Lectr		Sr. Lectr
African Studies			Lectr
Mayer, P., BSc DPhil <i>Oxon</i> , DrJurg <i>Heidel.</i>	Prof.	4 Jr. Lectrs.	Lectr
Hammond-Tooke, W. D., MA PhD <i>Cape T</i>	Lectr	Classics	
1 Jr. Lectr.		Dilke, O. A. W., MA <i>Camb</i>	Prof
Afrikaans-Nederlands		Baumbach, Lydia, MA <i>Stell.</i> , BA <i>Camb</i>	Sr. Lectr
Antonissen, R. K. J. E., DPhil & Lat <i>Louvain</i>	Prof.	Shillington, Mrs. Dorothy F., MA <i>Cape T</i>	Lectr.
Smuts, J., MA PhD <i>Cape T</i>	Sr. Lectr.	Milne, A., MA <i>Aberd.</i>	Lectr.
Truter, H. W., MA DLitt <i>Stell</i> , LittDrs <i>Amst.</i>	Lectr.	Commerce	
Brink, A. P., MA <i>Potchef.</i>	Lectr	Smith, H. H., MCom <i>S.A.</i> , PhD	Prof.
Botany		2 Instrs.	
Twyman, E. S., MSc PhD <i>Burm.</i>	Prof	Divinity	
Seagnief, S. C., MSc <i>S A</i> , PhD <i>Camb</i> .	Sr. Lectr	Maxwell, W. D., TD, BA BD <i>Tor.</i> , PhD	
Jacot-Guillarmod, Mrs. Amy F. M. G., MA BSc <i>St. And.</i>	Lectr.	DLitt <i>Edm.</i> , DD <i>Glas.</i>	Prof., Hd. of Dept.
3 Jr. Lectrs.		Hewson, Rev. L. A., BA <i>Rand</i> , MA <i>Camb.</i> , PhD (New Test.)	Prof.

§ Member of the Association of Universities of the British Commonwealth

Hinchliff, Canon P. B., BA *S.A. & Oxon.*,
PhD (Eccles. Hist.) Prof.
Casser, Rev W., MA BD *Glas.*, DD *S.A.*,
BThéol *Stras* Sr. Lectr.
2 Lectrs.†

Economics

Houghton, D. H., MA *Oxon.*, BA *S.A.* Prof.
Fournie, L., BA *S.A.*, MA *Stell.* Sr. Lectr.
Bell, R. T., MA *Vanderbilt*, BCom Lectr.
Orkin, Jennifer L. R., BA *Oxon. & Rhodes* Lectr.
Strauss, C. B., MA *Corn.*, PhD *Lectr.

Education

Morton, D. M., BSc MA EdB *Glas* Prof.
Gerber, J. J., BSc *Stell.*, MED *S.A.* Prof.
Earnshaw, H., OBE, MSc *Leeds* Lectr.
12 Lectrs.†

English

Butler, F. G., MA *S.A.*, BA *Oxon* Prof.
Wahl, J. R., MA PhD *Cape T.*, DPhil *Oxon* Sr. Lectr.
Terry, W. D., BA *Rand*, MA *Camb.*,
DLitt *S.A.* Sr. Lectr.
Ayling, R. F., BA *Nott* Lectr.
Shum, Mrs. Julia M., BA(FA) *BA S.A.* *Lectr.
3 Jr. Lectrs.

Entomology, see Zool. and Entomol**Fine Arts**

Bradshaw, B. Prof.
Guton, Mrs. Natalie M., BA(FA) *S.A.* Sr. Lectr.
Ewan, A. W. Lectr.
1 Jr. Lectr., 1 Instr.

French

Cattaneo, J. L., MA *S.A.*, Cert *Inst de Phon.*,
Paris Prof.
Nixon, Mrs. Hélène L., BA *Natal & S.A.* Lectr.

Geography

Rennie, J. V. L., MA *Cape T.*, PhD *Camb.*,
DipGeog *Lond.*, FRSSAf Prof.
Forbes, V. S., MA *Camb.*, PhD Sr. Lectr.
Childs, N. T., BA Lectr.
Robinson, G., BA *Camb.* *Lectr.

Geology

Mountain, E. D., MA *Camb.*, DSc *S.A.* Prof.
Ruddock, A., MSc *Durh.* Sr. Lectr.
Eales, H. V., PhD Lectr.

German

Erbe, H. E. W., PhD *Jena* Sr. Lectr.

History

Maxwell, Mrs. Winifred A., MA BLitt *Oxon* Prof.
Nuttall, M., BA *Camb.*, *Natal & Rhodes* Sr. Lectr.
Goodfellow, C. F., BA *Oxon* Lectr.
2 Jr. Lectrs.

Ichthyology

Smith, J. L. B., BA *Cape*, MSc *Stell.*,
PhD *Camb.*, FRSSAf Research Prof.

Law

McKerron, R. G., QC, MA *Aberd. & Oxon.*,
DCL *Oxon* Prof.
Copeland, L. H., QC, BA *Oxon.* Sr. Lectr.
Kerr, A. J., BA *S.A.*, LLB *Rand*,
LLM *Natal* (on leave) Sr. Lectr.
Jones, R. W., BA LLB *S.A.*, BCL *Oxon* Lectr.
3 Lectrs.†

Mathematics

Parkyn, D. G., MA *Oxon.* (Appl. M.) Prof.
Cruise, S. E., MA *Camb.* (Pure M.) Prof.
King, J. W., MSc *S.A.* Sr. Lectr.
Weigert, H., MSc *Stell.*, PhilDrs *Ley.* Sr. Lectr.
Fick, J. R. G., MSc *S.A.* Sr. Lectr.
2 Jr. Lectrs.

Music

Gruber, G., DrPhil *Vienna* Prof.
Mayr, R., DrPhil *Innsbruck* Sr. Lectr.
1 Jr. Lectr., 6 Practical Teachers

Pharmacy

Price, H., FRIC Prof.
Roberts, G. H., MSc *Belf.* Sr. Lectr.
Spenceley, Mrs. Sylvia G., BPharm *Wales* Lectr.
..

Philosophy and Politics

Oosthuizen, D. C. S., MA *Stell.*,
PhilDrs *Amst.* Prof.
Beard, T. V. R., BA *Natal & Oxon.* Sr. Lectr.
Evans, C. O., BA *Rand & Oxon* Lectr.
1 Jr. Lectr.

Physical Education

Locke, E. E., BSc *S.A.* Sr. Lectr.
Honucka, Mrs. Christa, Universitäts-dupl
Berl. Lectr.
Coghlan, D. V. Lectr.

Physics

Gledhill, J. A., PhD *Yale & S.A.*, MSc *S.A.* Prof.
Helm, H., MSc *Cape T.* Sr. Lectr.
Baart, E. E., PhD *Lev.*, BSc Sr. Lectr.
Archer, S. F. H. J., MSc *Cape T.* Lectr.
Walker, A. D. M., BSc Lectr.
1 Jr. Lectr.

Politics, see Philos. and Pol.		van Hulle, J. C., MSc PhD <i>Utrecht</i>	Sr Lectr
Psychology		Callan, E. McC., BSc <i>Manc.</i> , DIC, PhD <i>Lon</i>	Sr Lectr.
Wild, E. H., PhD <i>Lon</i> , MSc <i>S A</i> , FBPoS	Prof.	Alexander, Anne J., BSc <i>Natal</i> , PhD	Lectr.
Williams, W. H., BA BEd <i>Melb</i> , MA EdD <i>Stan</i>	Sr. Lectr Lectr	Alberts, L. E., BSc <i>Pret</i>	Lectr
Social Science	*	3 Jr Lectra.	
Irving, J., MA <i>Camb</i> , DPhil <i>S A</i>	Prof	INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH	
Watts, H. L., BA <i>S.A.</i> & <i>Rhodes</i> , PhD	Sr. Lectr		
La Grange, Mrs. Frieda H., MA(SocSci) <i>Stell.</i>	Lectr.	Houghton, D. H., MA <i>Oxon</i> , BA <i>S.A.</i>	
Zoology and Entomology		Chairman, Bd. of Management	
Ewer, D. W., MBE, MA <i>Camb</i> , PhD <i>Birm</i> , FRSSAF	Prof	Agar-Hamilton, J. A. I., MA <i>Cape T</i> , BLitt <i>Oxon</i>	Dir.
		Pauw, B. A., MA BD <i>Stell</i> , PhD <i>Cape T</i>	Res. Officer
		...	Res. Officer
		5 Jr Res. Officers	

ADMINISTRATIVE AND OTHER STAFF

Accountant D. F. Blain Asst Registrar (Academic). W. J. Askew, BCom <i>Natal</i> Asst. Registrar (Estate & Bldgs). F. W. Armutage, MA <i>Oxon</i> Admin Asst. Doreen D. Light Dep Librarian: R. A. Brown, MA <i>Oxon</i> Dean of Students H. J. Chapman, MBE, BA LLB <i>S A</i> Catering Manager. F. D. Sudano	Sheila Maritz, MSc <i>S A</i> ; Ornel Hall: Mrs. Pauline A. Sutton, BSc <i>S A</i> , Milner Hall. Margaret Igglesden, MA <i>Oxon</i> , Jan Smuts Hall H. J. Chapman, MBE, BA LLB <i>S A</i> ; Founders Hall. J. J. Geiber, BSc <i>Stell</i> , MEd <i>S A</i> , Drosty Hall J. W. King, MSc <i>S A</i> , Piet Retief Hall Rev. L. A. Hewson, BA <i>Rand</i> , MA <i>Camb.</i> , PhD, Thomas Pringle Hall E. E. Baart, PhD <i>Lev</i> , BSc
WARDENS OF RESIDENCES. St. Mary's Hall	

ASSOCIATED INSTITUTIONS

LEATHER INDUSTRIES RESEARCH INSTITUTE (tel. Grahamstown 720) Incorporated 1946 Under control of C.S.I.R. Dir & Res. Prof.—S. G. Shuttledworth, MSc PhD <i>S A</i> , FRIC.	S. A. WOOL TEXTILE RESEARCH INSTITUTE (tel. Grahamstown 1574). Incorporated 1953 Under control of C.S.I.R. Dir & Res Prof.—C. C. Kritzinger, MSc <i>Stell</i> , MS <i>Cinc.</i> , PhD <i>S A</i> .
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GENERAL INFORMATION

The beginnings of Rhodes Univ date from 1855, when St. Andrew's Coll. was founded at Grahamstown. For many yrs this sch prepared students for degree exams, as well as for the usual sch exams. In 1878 the sch establd. a separate coll. dept for the purpose of preparing students for the exams. of the Univ. of the Cape of Good Hope. In 1904, generous financial support from the Rhodes trustees, the citizens of Grahamstown and the public bodies of the Eastern Cape, made it possible to separate this coll. dept. from the sch, and it was incorporated by act of parliament as Rhodes Univ. Coll. The coll. continued to prepare students for the degrees of the Univ. of the Cape of Good Hope until 1916, when it became a constituent coll. of the Univ. of S. Africa. In 1949, parliament passed an act incorporating the coll. as Rhodes Univ, which came into being on March 10, 1951. From the same date (up to 1959), the S. African Native

Coll. (now the Univ. Coll. of Fort Hare) was affiliated to the new univ.

The univ. now owns an impressive array of bldgs. erected progressively since 1914 on an excellent site, the nucleus of which was donated to the coll. by the govt. All the bldgs, which comprise admin., academic and residential blocks, are situated within easy reach of one another, and of the univ sports fields.

Grahamstown is a town with a population of about 32,000, of whom over half are non-Europeans. The students of the univ. are, however, drawn from all parts of the Union and the Fed. of Rhodesia & Nyasaland.

For a note on the Port Elizabeth Division see 'The Year 1960', below

CONSTITUTION. The univ. consists of the chancellor, the principal, who is *ex officio* the vice-chancellor, the vice-principal, who is *ex officio* the

pro-vice-chancellor, the council, senate and convocation, together with the profs, lectrs, other teachers and the students.

LANGUAGE OF INSTRUCTION English.

INCOME (1960). R1,060,536 (govt. grant, 55 per cent, hostel fees, 26 per cent; academic fees, 16 per cent; other sources, 3 per cent)

FACULTIES AND DEANS (1961). *Arts*, Prof R K J E Antonissen (Afrikaans-Nederlands), *comm*, Prof H M Roberts, *div.*, Prof W D Maxwell; *educn*, Prof D. M. Morton; *law*, Prof R G. McKerron, *sci.*, Prof D. W. Ewe (2001); *soc sci.*, Prof. J. Irving

LIBRARY Over 100,000 vols., excl unbound periodicals, pamphlets, etc. The Cory library contains a collection of material relating to the hist. of the Eastern Cape Province.

ADMISSION See p 1332 Non-matriculated candidates may be admitted to certain dipl and cert courses.

FIRST DEGREES BA, BSc, BSc(Pharm), BCom BEcon, BSocSc—3 yrs; BA(FA), BMus—4 yrs. The hons degree in arts, fine arts, sci, comm, econ and soc sci requires 1 yr of study after the ordinary degree. In arts and soc sci, however, an hons degree may also be taken as a 1st degree after 4 yrs' study, without obtaining the ordinary degree. In this course there is more specialization in the 3rd and 4th yrs than in the more usual method of taking an ordinary degree first. Hons degrees may be taken in the following subjects: a Bantu lang., Afrikaans-Nederlands, appl. maths; bot., chem., classics, comm; econ.; Engl.; entomol.; fine art; French; geog.; geol.; German, Greek, hist., Latin, maths; pharm; philos.; philos. pol & econ.; pol., psychol., sociol., soc anthropol.; zool; or a combination of any 2 approved langs.

HIGHER DEGREES. BEd, LLB, BD—2 yrs of instrcn following an approved degree in another fac. By res.: MA, MA(FA), MSc, MCom, MEcon, MSocSc—1 yr after hons degree; MMus, MEd, LLM—1 yr after BMus, BEd, LLB, respectively; PhD (all facs except law)—2 yrs after master's degree or 3 yrs after hons degree; DLitt, DSc, DEcon, LLD, DD, DSocSc, DMus—4 yrs after master's degree or 5 yrs after hons degree or BEd, LLB, BD. All the doctorates may also be awarded as honorary degrees. The higher degrees are open to grads of other univs. provided they attend Rhodes Univ. for an approved period.

DIPLOMAS 1 yr.—leather sci, educn, soc. work, personnel welfare & management (all post-grad) 2 yrs.—soc studies (non-grad.) 3 yrs.—law, theol., music, lower secondary teacher (all non-grad.) 4 yrs.—fine art, art teacher (all non-grad.).

CERTIFICATES. 2 yrs.—religious knowledge, secretarial practice. 3 yrs.—higher primary

teacher, theory of accty. 4 yrs.—art teacher. (All non-grad.).

OTHER COURSES First-yr. courses are given for students proceeding to other univs. for degrees in engin., med., dent, vet sci and agric., and a special BSc degree enables a student to obtain exemption from two yrs of the course for a degree in surveying at certain other univs. The full courses of trg. for professl. dipls. in music are also given.

RESEARCH The Leather Industries Res. Inst (see 'Assoc Instns.', above) originated as a tanning res. section of the chem dept and gradually developed, until in 1942 it was able to move into a separate bldg and became an indep. dept. In 1946 it was formally constituted as a res. inst. under the control of the Council for Scientific and Indust. Res., but it still remains closely associated with the univ.

The S.A. Wool Textile Res. Inst (see 'Assoc Instns.', above), incorporated in 1953, is also under the control of the C S I R and closely associated with the univ.

Inst of Soc & Econ. Res (see p 1366) was established in 1954 to co-ordinate and extend res. in soc scis.

FEES The following cover all charges for registration, tuition, labs., ord exams, graduation, library and students' socs. BA, BA(FA), BCom, BEcon, BSocSc, BMus, R120 p.a., BSc, BSc (Pharm), LLB, R140 p.a., BD, BEd, R110 p.a. Hons degrees, R120 p.a. (R150 if labs. used) Master's degrees, R60 p.a. (R90 if labs. used) plus exam fee, R20 PhD, R50 p.a. (R80 if labs. used) plus exam fee, R60 Dipls. educn., fine art, secondary teacher's, R110 p.a., art teacher's, R140 p.a. Certs. primary teacher's, R110 p.a., art teacher's, R130 p.a. Other dipls and certs., R120 p.a.

ACADEMIC YEAR March to Nov., 4 terms of approx 7 weeks each

ADULT EDUCATION Extension lectures are given from time to time by members of the staff in the main towns of the Eastern Province.

ENTRANCE SCHOLARSHIPS, ETC. Several govt bursaries (up to R200 p.a. for 3 yrs), 2 Alfred Beit schols (R100 for 1 yr), 2 Reynolds bursaries (R150 p.a. for 3 yrs), other bursaries of varying amounts.

FELLOWSHIP open to grads of any univ. Hugh Le May fellowship, about R3000 for 1 yr, awarded in alternate yrs for advanced res. in humanities.

STUDY LEAVE Academic staff may be granted 6 mos' leave (3 mos full pay, 3 mos half pay) after each period of service of 5 yrs.

RESIDENCES. Men Founders Hall (Botha House), College House, Cory House, Matthews House, accomm 192 students, Drostyd Hall

(Struben House, Graham House, Drosty Lodge, Atherstone House), 197, Jan Smuts Hall (Jan Smuts House, Adamson House), 218; Piet Retief Hall (Piet Retief House, Livingstone House), 55; Thomas Pringle Hall, 120. *Women* Oriol Hall (Beit House, Jameson House, Oriol House), accomm 180 students; St. Mary's Hall (John Kotze House, Phelps House, Olive Schreiner

House), 206, Milner Hall, 60. Residence fees - R250 p.a.

ATHLETIC UNION controls all sporting activities incl sports clubs STUDENTS' REPRESENTATIVE COUNCIL controls all other student activities.

PUBLICATIONS *Calendar*, *Prospectus*; *Report* (annual), *Rhodian* (annual students' public).

THE YEAR 1960

PORT ELIZABETH DIVISION Preparations finalized for launching of a new div. of the univ in Port Elizabeth in 1961 (distinct from the parent Grahamstown division), the intention being to offer, initially, 1st-yr courses for BA and BCom plus all courses for cert in theory of accountancy (Dean of studies in charge of division M N S. Immelman).

RETIREMENTS Prof D Liddell (comm); Prof D Burnett (appl maths)

RESIGNATIONS. Anna C Snyman (soc. sci), apptd. sec & org mental health for Witwatersrand; H J Erasmus (classics), apptd lectr, S.A.; H W Taylor (econ), Dr P K Faure (chem), apptd principal res officer, S.A.W.T.R.I.

DEATHS Prof W Rollo (classics), Dr H R Burrows (dir, Inst of Soc & Econ Res).

Statistics

STUDENT NUMBERS, 1961

Grahamstown		
	Full-Time	Part-Time
Men .	927	92
Women .	470	18
Total .	1397	110

Port Elizabeth

	Full-Time	Part-Time
Men	7	107
Women .	1	7
Total	8	114

Distribution by Faculties Grahamstown—*arts*, 510; *comm*, 209, *div*, 28, *educn*, 75; *law*, 14, *sci.*, 583; *soc sci*, 46 Also 42 'special' students not studying for a degree or dipl. Total. 1507 Port Elizabeth—*arts*, 11, *comm*, 109

Included in the figures above are —

Postgraduate students, 168

New admissions, 646

Students from other countries, 282 (Country from which largest number came. Rhodesia & Nyasaland, 224)

DEGREES AWARDED (1960) *Arts*: BA, 146, BA (hons.), 15; MA, 2; BA(FA), 4 *Comm*: BCom, 20, BCom (hons), 1. *Law*: LLB, 3 *Sci.*: BSc, 77, BSc (hons), 13, MSc, 5, BSc (pharm), 11. *Soc sci*: BSocSc, 5 PhD (all facs) 3.

DIPLOMAS AND CERTIFICATES AWARDED (1960). UED, 67, dipl fine art, 3, dipl. theol, 1; HP/TC, 3; art cert, 1, cert. theory of accty, 6; cert secretarial practice, 8

UNIVERSITY OF SOUTH AFRICA*

Founded 1873 as University of the Cape of Good Hope

263 Skinner Street, Pretoria

Postal Address: P O. Box 392, Pretoria, Transvaal, South Africa

Cables and Telegrams: UNISA, Pretoria

Telephone: 2-2345, Pretoria

CHANCELLOR—F J. DE VILLIERS, BA PhD DSc, FRIC

VICE-CHANCELLOR AND CHAIRMAN OF SENATE—Professor S PAUW BSc DPhil *Pret.*, MA

CHAIRMAN OF COUNCIL—S. P. E BOSHOFF, MA LittD

PRESIDENT OF CONVOCATION— . . .

PRINCIPAL—Professor S PAUW, BSc DPhil *Pret.*, MA

REGISTRAR—B. F J VAN RENSBURG, MCom BA

ASSISTANT REGISTRAR—L G VAN DER MERWE, BCom

TEACHING STAFF

[† = Part-Time, § = Hd of Dept.]

Accounting

Cilliers, J. A., MCom *Pret*
Cilliers, H. S., BA LLB *Cape T*
de Bruin, J W. A., BCom MBA *Pret.*
Badenhorst, M. L., BCom
Coertse, C. J., MCom *Pret*
Loubser, J. W., BCom *O F S.*
Swart, J. N., MCom *Pret*

§Prof. Ziervogel, D, MA DLatt *Pret*
Sr Lectr. Louw, J. A., MA *Stell*
Sr Lectr. Ferreira, J A., MA *Pret*
Lectr. Malepe, A T., BA
Lectr. Dau, R S., BA
Lectr. Jubase, J B., BA *Rhodes*
Lectr. Mokgokong, P C., BA
Lectr. Ngidi, J., BA
Manaka, V S., BA

§Prof
Sr Lectr
Sr Lectr
Sr Lang Asst
Lang Asst
Lang Asst
Lang Asst
Lang Asst
Lang Asst

Afrikaans-Nederlands

van der Merwe, H. J J M., MA
DLatt *Pret*
Steyn, J L., MA DLatt *Potchef*
Posthumus, M J., MA DLatt *Pret*
de Pauw, W J., LPhiletLitt *Brussels*,
DLatt *Pret*
Dekker, L., MA *Potchef*, LittDrs *Amst*
Burm, O J E., BA *Pret*
Vogel, R., MA *Cape T*
van der Walt, M. J., MA *Pret*

§Prof
Prof
Sr Lectr
Sr Lectr
Sr Lectr
Lectr
Lectr
Lectr

Bibliography and Librarianship

de Vleeschauwer, H. J., PhilD CandHist
Ghent, Hon LLD *Glas*
Zastrau, H., BSc HDiplBibl *Pret*
Hartmann, E N., BA *Rand*, FLA,
FSALA

§Prof
Sr Lectr
Sr Lectr

Business Economics

Radel, F E., DiplRerOec *Dresden*,
DCom *Stell*
Winkle, F F., DrEcon *Bud*
Bak, C., EconDrs *E H Rotterdam*
de Beer, J. J., DCom *Stell*
Herbat, W., DCom *Stell*

§Prof
Sr Lectr
Lectr
Lectr
Lectr

Anthropology and Bantu Law

Myburgh, A. C., BA LLB *Stell.*,
DPhil *Pret*
Sentker, H., BA *Pret*
Monnig, H. A., MA *O F S.*, DPhil *Pret*
Dedekind, G A H., BA *Pret* *

§Prof
Sr Lectr
Lectr
Lectr

Chemistry

Peroold, G. W., DSc *Pret.*,
DrScTech *E T H Zürich*
Boeyens, J C A., MSc *O F S.*

§Prof
Lectr

Auditing

du Toit, L M., MCom *Pret*
Oosthuizen, G L., MCom *Pret.*

§Sr. Lectr
Lectr

* Member of the Association of Universities of the British Commonwealth

Classical Languages		History	
Viljoen, G van N, MA <i>Pret.</i> & <i>Camb</i> , LLB <i>Pret</i> , DLittetPhil <i>Ley</i>	\$Prof	Muller, C. F. J., MA DPhil <i>Stell.</i> van Jaarsveld, F. A., MA <i>Pret</i> , LatetPhilD ₁ <i>Gron</i>	\$Prof Prof
Naudé, C. P. T., MA <i>Rand</i> & <i>Oxon</i> , DLittetPhil <i>Ley</i>	Sr Lectr	van Wyk, T., MA	Prof
von Weber, O. A., DPhil <i>Bonn</i>	Sr Lectr	Davey, A. M., MA	Lectr
Kriel, D. M., MA <i>Pret</i>	Lectr.	van Zyl, M. C., MA <i>Pret</i>	Lectr
Foune, J. M., DLitt <i>Pret.</i> , MA	Lectr	Zietsman, P. H., MA <i>O.F.S.</i>	Lectr
Erasmus, H. J., MA <i>O.F.S.</i>	Lectr		
Criminology		Italian	
van der Walt, P. J., MA BEd DPhil <i>Pret</i>	\$Sr Lectr.	Haffter, P., DPhil <i>Zw</i>	Sr Lectr
Retief, G. M., MA DPhil <i>Pret</i>	Lectr	Jewish Studies	
		Newman, J., MA <i>Manc</i> , DLitt <i>Pret</i>	Lectr.
Economics and Economic History		Law, Mercantile	
Venter, K. D., BA MA(Econ)	\$Sr Lectr	Benade, M. L., BA <i>Stell</i> , LLB <i>O.F.S.</i>	\$Sr Lectr
Jones, J., MA <i>Stell</i> , DPhil <i>Pret</i>	Si. Lectr	Grosskopf, F. H., BA <i>Pret.</i> , LLD <i>Ley</i>	\$Adv Lectr
van den Bogaerde, F., MCom <i>Stell</i>	Si. Lectr	Page, N. S., BA <i>Rand</i> , LLB <i>Pret.</i>	\$Adv Lectr
Leistner, G. M. E., MA <i>Stell</i>	Lectr.	van Dykhorst, K., BA LLB <i>Pret</i>	\$Adv Lectr
Education		McCreath, S. W., BA <i>Pret</i> , LLB	\$Adv Lectr
Cilliers, D. H., MA MEd DPhil	(Methods & Admin) \$Prof	Reinecke, M. F. B., BA <i>Pret</i>	Asst
Erasmus, O. C., BA <i>Stell.</i> , DEd <i>Pret.</i>	(Philos of E.) \$Prof.	Law, Private	
Venter, E. H., BA BCom DEd <i>O.F.S.</i>	(Empirical E.) \$Prof	de Villiers, D., BA <i>Oxon</i>	\$Prof
Venter, I. S. J., BA DEd <i>O.F.S.</i>	(Hist of E.) Sr Lectr	Joubert, W. A., MA LLD <i>Stell.</i>	Prof
		Nienaber, P. M., BA LLB <i>Stell</i>	Prof
English		van Zyl, L. J., BA <i>Cape T</i> , LLB <i>Stell</i>	Sr. Lectr
Davis, E., MA <i>Rand</i> , BLitt <i>Oxon</i>	\$Prof	van der Walt, J. C., BA <i>O.F.S.</i>	Asst
Harvey, C. J. D., MA <i>Natal</i>	Prof	Law, Public	
Beeton, D. R., MA <i>Pret</i>	Sr Lectr	Stiauss, S. A., BA <i>Stell</i> , LLB <i>O.F.S.</i>	\$Prof
Cheadle, B. D., BA <i>Rand</i>	Lectr	Wiechers, M., BA LLB <i>Pret</i>	Sr Lectr
Perreira, E., BA	Lectr	Ackermann, L. W. H., LLB <i>Stell</i> , BA <i>Stell.</i> & <i>Oxon</i>	\$Adv Lectr.
Rappoport, R., BA <i>Natal</i>	Lectr	Law, Roman and Comparative	
French		Hosten, W. J., BA LLB <i>Stell</i>	\$Prof
de Vleeschauwer, H. J., PhilD CandHist <i>Ghent</i> , Hon. LLD <i>Glas</i>	\$Prof	Dannenbring, R. K. H. W., DrJur <i>Kiel</i>	Lectr
Haffter, P., DPhil <i>Zür</i>	Sr Lectr	Mathematical Statistics	
Morris, R., BA <i>Pret</i>	Lectr	Steyn, H. S., DSc <i>Pret</i> , PhD <i>Edm</i> , MSc	\$Prof
Valkhoff, J. W., LittCand <i>Amst</i>	Lectr	van Heerden, D. F. I., MSc <i>Pret</i>	Si Lectr
		Gonin, H. T., MSc <i>Stell</i> , PhD DiplActuariaMaths <i>Edm</i>	Sr. Lectr
Geography and Economic Geography		Mathematics and Applied Mathematics	
Moolman, J. H., MA DPhil <i>Stell.</i>	\$Prof	van der Merwe, J. H., MSc PhD <i>Cape T</i>	\$Prof
Smrt, C. B., MA <i>Pret</i>	Sr Lectr	van der Walt, B. J., MSc	Sr Lectr
Tromp, R. D., MSc <i>Pret</i>	Sr Lectr	van der Mark, J., MSc <i>Potchef.</i> & <i>S.A.</i> , DPhil <i>Ley</i>	Sr Lectr.
Niemann, W. H., BSc	Lectr.	Wiid, D. H., DSc <i>Pret</i>	Sr. Lectr
Scheepers, J. N., BA	Lectr	Wolterbeek-Muller, J., Maths&PhysDrs <i>Ley</i>	Lectr
r Tech Asst.			Asst
German		Music	
Schneider, B. A. T., MA <i>Cape T</i> , DLitt <i>Stell</i>	\$Prof	Roode, D. J., BMus	\$Prof, Dir
Hesse, A. O., MA DLitt <i>Pret</i>	Sr Lectr	Paff, W. P., PhD <i>Rand</i>	Lectr
Hebrew			
van Zyl, A. H., MA DD <i>Pret</i>	\$Prof		

Native Administration		Moller, N J, MA	Lectr.
van As, B S, MA <i>Stell</i>	§Sr. Lectr.	van den Berg, J C, MA <i>Potchef</i>	Lectr.
Olivier, J J, BA <i>Pret</i>	Lectr.	Romance Languages, see French, and Italian	
Philosophy		Russian	
de Vleeschauwer, H. J, PhilD		Foxcroft, E., MA <i>Oxon.</i>	Lectr.
CandHist <i>Ghent</i> , Hon LLD <i>Glas.</i>	§Prof		
Meyer, R. S., MA <i>Pret.</i>	Lectr.	Social Work	
Political Science and Public Administration		van Rooyen, I J J, MA DPhil	§Sr. Lectr.
Kleynhans, W A., BCom MA <i>Pret</i>	§Sr. Lectr.	de Vos, A S, MA <i>Stell</i>	Lectr.
Vosloo, W B, MA <i>Pret.</i>	Sr. Lectr.	Sociology	
Psychology		van der Walt, J A, DPhil O.F.S, MA	§Prof
Roux, A S, MA DPhil <i>Pret</i>	§Prof.	Steyn, A F, MA <i>Stell</i>	Sr Lectr
Blignaut, F W, MA DPhil <i>Phil</i>	Prof	Rip, C M., MA	Lectr
Geerling, R, MD <i>Amst</i> , LLB <i>Rand</i>	§Prof	Venter, J J, MA <i>Potchef</i>	Lectr
Kruger, C F, MA DPhil <i>Stell</i>	Sr Lectr.	de Koning, T L., BA	Lectr
Schlebusch, A, MA <i>Pret</i> & <i>Minn</i>	Sr Lectr	Theology	
Vlok, A, MA DPhil <i>Pret</i>	Sr Lectr	Lombard, J A, BA BD <i>Pret</i> , DD <i>Basle</i>	§Prof
Gerdes, L C., MA	Lectr		

GENERAL INFORMATION

By Act 12 of 1916 of the legislature of the Union of South Africa the Univ. of the Cape of Good Hope, incorporated by act of the Cape legislature in 1873, became and was incorporated in the Univ. of South Africa, with administrative seat at Pretoria.

Since 1951 the univ. has been concerned with external students only, no provision being made for attendance. The div. of studies supplies tuition (in most subjects) by correspondence in both English and Afrikaans, but it is not compulsory for students to obtain such tuition. Students resident outside the continent of Africa are not normally admitted to exams.

The following instns train students for the exams of the Univ. of South Africa: Univ. Coll. of the North, Private Bag 5060, Pietersburg, Transvaal (Rector: Prof. E. F. Potgieter, MA DPhil); Univ. Coll. of Fort Hare, P O Fort Hare, C.P. (Rector: Prof. J. J. Ross, LLB BAdm *O.F.S.*, MA *Yale*, HSED *Stell.*, BA BSc BEd); Univ. Coll. of the Western Cape, Private Bag, Bellville South, Cape Town (Rector: J. G. Meiring, BSc BEd Ph.D.); Univ. Coll. of Zululand, Private Bag, Ngoye, P O Felixton, Natal (Rector: P. W. Cooke, MA Ph.D.); University College for Indians, Private Bag, Durban, Natal (Rector: Prof. S. P. Olivier, BA *Stell.*, MEd DPhil); Prus XII Coll. (associated), P O Roma, Basutoland (Rector: Very Rev L. Doxos, PhD *Ott.*, DD SSL *Greg.*); Heidelberg Teachers' Training Coll., P O Box 220, Heidelberg, Transvaal (Rector: J. J. de Jager, BA HED); Helderberg Coll., P O Box 22, Somerset West, C.P. (Rector: E. L. Tarr, MA *Maryland*); Huguenot Coll., P O Box 5, Wellington, C.P. (Rector: Rev. E. J. du Toit, BA BD *Stell.*)

FACULTIES AND DEANS. *Arts* (incl. fine arts & music), Prof. C. F. J. Muller, *comm & admn.*, Prof. F. E. Radel (bus econ), *div*, Rev. Dr. W. Cosser, *educn*, Prof. D. H. Cilliers, *law*, Prof. W. A. Joubert, *sci*, Prof. J. H. v. d. Merwe, *soc. sci.*, Prof. J. A. van der Walt (sociol.)

ADMISSION See p 1332

FIRST DEGREES BA, BA(FA), BA(SocSc), BAdm, BCom, BEcon, BSc, 3 yrs; hons. BA, hons. BA(FA), hons. BA(SocSc), hons. BCom, hons. BAdm, 1 yr. after corresponding bachelor's degree; BMus, 4 yrs. Hons. BA may be conferred in African studies, Afrikaans-Nederlands lang. & lit, bibliog, classics, criminol, econ, Engl lang & lit, fine art, French lang & lit, geog., German lang. & lit., Greek, hist, Italian lang. & lit., Latin, maths., philol, philos., pol sci, psychol, Semitic langs., sociol.

HIGHER DEGREES BD, 3 yrs. (postgrad.); LLB, 4 yrs (postgrad.), BEEd, 1 yr (postgrad) after dipl in educn or other approved course, MA, MA(SocSc), MAdm, MCom, MEd, MSc, 1 yr after corresponding hons. bachelor's degree; MMus, 2 yrs after BMus; MDiv, LL.M, MEd, by thesis, DAdm, DCom, DLit & Phil, DMus, DD, LLD, DEd; Ph.D in sci, soc sci. Doctorates (except Ph.D) are granted for approved theses to masters of at least 2 yrs. standing. For the Ph.D degree the period is 3 yrs. The master's and doctor's degrees may also be conferred as honorary degrees.

Postgrad. study may be undertaken in acctg., African studies, Afrikaans-Nederlands, appl maths., auditing, bibliog, bot, bus econ, chem., classics, criminol, econ., educn., Engl., fine arts,

French, geog., geol., German, Greek, hist., Italian, Latin, maths., philol., philos., phys., pol. sci., pub. admin., Semitic langs., sociol., soc. work, stats., zool.

DIPLOMAS. Educn (1 yr), Bantu studies (lower, 2 yrs., higher, 1 yr.), librarianship (2 yrs.) The univ. also prepares students for the following certs. which are awarded by the relevant professional bodies: theory of accountancy (4 yrs.),

attorney candidates' (3 yrs.), and civil servants' (3 yrs.) certs

SCHOOL AND MUSIC EXAMS. The univ. controls and conducts exams. for music certs. and licentiate diplomas (for teachers of music and solo performers), and exams. in speech trg.

PUBLICATIONS. *Calendar* (Jan., free); *Ufisa* (Nov.; free); *Mousaton*; *Communications of the Univ. of South Africa* (series), *Prospectus* (free).

THE YEAR 1960

Statistics

STUDENT NUMBERS, 1960	
	<i>External</i>
Men	9006
Women	985
Total	9991*

* Distribution by Faculties. *Arts*, 5099, *comm.* & *admin.*, 3247, *educn.*, 208; *law*, 750; *sci.*, 611; *soc. sci.*, 76. Total 9991

Included in the figures above are:—

Postgraduate students, 786

New admissions, 1958

Students from other countries, 944

DEGREES AWARDED (1960) BA, 138, *hons.* BA, 36; MA, 6; DLitt&Phil, 3, BA(FA), 2; BCom, 26; BAdmin, 6; *hons.* BCom, 4; MCom, 1; DPhil, 1, BEd, 16; MEd, 3, DEd, 1, BA (SocSci), 7, LLB, 15; BSc, 17; *hons.* BSc, 3; MSc, 1, PhD, 2

DIPLOMAS AWARDED (1960) Educn., 31, librarianship, 9, higher librarianship, 5; Bantu studies, 1, banking, 3, Juris, 1.

CERTIFICATES AWARDED (1960) CTA, 127; law ex. pub. servants, 18; sr. law ex. pub. servants, 1; cert. cand. attorneys, 13

* Does not include 638 students at the non-white univ. colls

UNIVERSITY OF STELLENBOSCH*

Founded 1916

Postal and Telegraphic Address · University, Stellenbosch, Cape Province, South Africa

Telephone · 1251 Stellenbosch

CHANCELLOR—Hon T E DONGES, MA LL.D. *Lond.*, Hon DPhil

VICE-CHANCELLOR—J S GERICKS, BA

PRESIDENT OF CONVOCATION—R. W WILCOCKS, PhD *Berl*, Hon. DCL *Oxon.*, Hon. DComm

PRINCIPAL—H. B. THOM, MA DPhil

REGISTRAR—S J. PRETORIUS, PhD *Lond.*, MSc

LIBRARIAN—G. V. MARAIS, BSc *Col*, MA, FSALA

ACCOUNTANT—T G. D. VAN SCHALKWYK, BComm

TEACHING STAFF

(†=Part-Time)

Afrikaans-Dutch

Kempen, W, MA LittD Jan Marais Prof.
Erlank, W J du P, BA *Pret & Rand*,
DLitt *Pret* Prof
Opperman, D. J, MA S.A., DLitt *Cape T.* Prof
De Villiers, M., MA PhD *Cape T* Prof.
Van der Merwe, J. H., MA Lectr.
2 Jr. Tech Assts

Agriculture, see below

Bantu Studies

Van Eeden, B. I. C, MA DPhil Prof
Olivier, N J J., MA LLB Prof
Bruwer, J. P. v S, MA DPhil *Pret* Prof
Schuler, G. M. K, MA Lectr.
Olivier, M. J., MA Lectr.
Oosthuysen, P. J, MA Lectr
Weiss, Ode Temp. Jr. Lectr
6 Student Assts.

Botany

Jordaan, P. G., DSc Prof.
De Vos, Miriam P., DSc Sr Lectr.
De Bruyn, J. A., MSc *Potchef*, PhD *Chuc.* Sr Lectr.
Smuth, J. G., MSc DPhil *Utrecht* Lectr.
Van der Merwe, R. B., MSc Lectr
1 Half Jr Lectr., 2 Tech Assts., 33 Student Assts.

Chemistry

Krige, G. J. R, PhD *Gött*, MSc Prof
Rohwer, E. F. C. H, MSc S.A.,
DrRerNat *Freib* Prof.

Van der Merwe, P. W, PhD *Gött*, MSc Prof.
Kuitzing, J. H, DrIngChem *T.H. Aachen*,
MSc Sr Lectr.
Barnardt, J. H, DSc Sr. Lectr.
Malan, H. P., MSc DEd Sr Lectr.
De Vries, M. J., DrRerNat *Freib*, MSc
Garbers, C. F., MSc *Pret*, PhD *Zur.* Sr. Lectr.
Stegmann, G. F., BSc S.A., MSc Sr Lectr
Kemp, D. M, DSc Lectr.
Cruywagen, J. J, MSc Lectr.
De Kock, D. M., MSc *Pret* Lectr.
Schneider, D. F, MSc Lectr.
3 Half Jr Lectrs., 5 Tech. Assts., 50 Student Assts.

Classics

van Rensburg, J. P. J, MA *Lond. & Stell*,
DLitt Prof.
Smuts, F, LittD *Utrecht*, MA Prof
Hugo, A. M., LittD *Utrecht*, MA Sr. Lectr
Conradie, P. J, LittD *Utrecht*, MA Lectr.
1 Half Jr. Lectr., 8 Student Assts.

Commerce

Schumann, D. E. W., PhD *Virginia Poly-*
tech, MComm Prof.
Smith, C. A., BComm Prof
Van der Meulen, J, EconDrs *E.H. Rotterdam*
Dempsey, W. C., MComm Sr. Lectr.
... Sr Lectr.
Loubser, M. G, BComm Sr Lectr
Van Dyk, Hiletje A. A. Lectr.
Joubert, W. A., BComm Lectr

* Member of the Association of Universities of the British Commonwealth

Bouwwer, B., MComm
 Wessels, P. J., BComm
 Nolte, D. J., BCommMED
 Rorich, R. B., BA LLB
 Van Wyk, H. F., BComm
 Malherbe, J. F., BComm LLB *Cape T.*
 13 Student Assts.

Drama

Engelen, A. P. F. L.
 De Villiers, Margaretha E.
 Buurman, Mrs Cecile
 Tager, Gisela

Dutch, see Afrikaans-Dutch

Economics

Sadie, J. L., EcD *E.H. Rotterdam*, MComm
 (on leave) Arthur van der Langen de
 Villiers Prof
 De Reville, Mrs Maria J. C.,
 DrPol&Soc *Louvain*
 Truu, M. L., BA
 Parsons, R. W. K., BA BComm *Cape T.*
 Student Assts.

Education

Du Toit, P. S., MA Med DPhil
 Gunter, C. F. G., MA Med *S.A.*, DED
 DPhil
 la Grange, A. J., MA DPhil (Hist of E) Prof
 (Philos of E) Prof
 Swartz, J. F. A., MA DPhil (E Psychol) Prof
 Heese, J. de V., BA DED
 Uys, Anna M., MA BEd *Cape T.*
 Badenhorst, J. L., BA Med
 Visser, P. G., BA *S.A.*, Med
 McLachlan, P., MSc BEd
 Goldner, Mrs. Maria S. M., MA DED
 Muller, F. B., BSc *Pret.*, DEd *Potchef*
 McMagh, Gertrude P., BA *Rand*, DED
 Smut, J. N., BA
 Pickard, Mrs. Dorothy C., MA *Cape T.*
 Mocke, Mrs Deborah, BA *Pret*
 Smit, Mrs. Idalette, MA
 Coetzee, Marie E., BA *Potchef*
 1 Tech. Asst., 7 Student Assts

Engineering

Straszacker, R. L., MSc(Eng) *Rand*,
 DrEng *T.U. Berlin* Elizabeth Marais Prof
 Heydorn, A., DiplEng *T.H. Stuttgart*,
 M(SA)IEE Prof.
 Truter, R., BA BScEng *Cape T.*
 Sippel, J. J., BSc(Eng) *Rand*
 Olen, C. L., MSc(Eng) *Rand*
 Steenkamp, W., BSc(Eng) *Rand*, SM *M.I.T.*

 Loedolff, G. F., BSc BScEng

Lectr.
 Lectr.
 Temp Lectr
 †Lectr.
 †Lectr.
 †Lectr.
 Prof
 Lectr.
 Temp. Lectr
 †Lectr

Giljam, B., DiplMechEng *T.H. Delft*

Toerien, L. I., BSc BScEng
 Coetsce, A., BScEng *Cape T.*
 DeVilliers, J. W. R., BScEng
 Uys, J. F., BSc(Eng) *Rand*
 Braae, R., MScEng *Copenhagen*,
 BSc *S.A.*
 Kramel, B., BScEng
 Reuter, H. O., BScEng

 Pienaar, J. F., BSc BEng
 Slabber, M. J. J., BSc BEng
 5 Mechanics, 3 Tech Assts., 32 Student Assts

Sr. Lectr.
 Sr Lectr
 Sr Lectr
 Sr Lectr
 Sr Lectr
 Sr Lectr
 Sr Lectr
 Lectr.
 Lectr
 Lectr
 Lectr
 Lectr.
 Lectr.
 Lectr.

English

Johnman, C. K., MA BEd *Cape T.*
 Gilham, D. G., MA *S.A.*
 Thompson, J. B., BA *Natal*
 Paterson, Mary W., MA *S.A.*
 De Wet, Mrs Hilda, BA
 Hendelison, A. C. L., BA *Natal*

Prof
 Sr Lectr.
 Sr Lectr.
 Lectr.
 Lectr.
 Lectr.
 Lectr.

Forestry

Wicht, C. L., BA *Oxon*, DrEng *Dresden*, BSc
 Merensky Prof
 Hartwig, G. L. F., DrOecPubl *Munch*,
 BScFor
 Transvaal & O.F.S Chamber of Mines
 Prof
 Deetlefs, P. P. du T., DF *Duke*, BScFor
 Borgin, K. B., MagScient *Oslo*, DSc
 De Waal, P. H., BScFor
 Van Laar, A., DiplEng *Wageningen*,
 DScFor
 Donald, D. G. M., BScFor *Aberd*
 Grut, M., CandPhil *Copenhagen*, BScFor
 Saunders, G. R., MScFor
 10 Tech. Assts., 2 Student Assts.

Prof
 Prof.
 Sr. Lectr.
 Lectr
 Lectr.
 Jr Lectr.

French

Cuenod, Valentine, BA *Cape T.*, DU *Paris*
 De Vynck, J. E. K., BA

Prof
 Lectr
 Lectr

Geography

Nel, A., MA DPhil
 Conradie, D. J., MA DPhil
 Jansen, J. P., MA DPhil
 Barnard, W. S., MA
 2 Tech Assts., 19 Student Assts.

Prof
 Sr Lectr
 Sr Lectr
 Lectr.

Geology

Scholtz, D. L., DSc
 Taljaard, M. S., DSc
 Maske, S., MSc
 Rust, I. C., BSc
 1 Half Jr Lectr., 2 Tech. Assts., 15 Student
 Assts.

Prof.
 Prof.
 Sr Lectr.
 Lectr

German

Trumpelmann, G. P. J., BA *S.A.*,
PhD *Leip.*, DPhil *Pret.*
Haller, H. M., PhD *Natal*
Boeddinghaus, W., PhD *Cape T.*

Prof.
Sr. Lectr.
Lectr.

History

Thom, H. B., MA DPhil
Van der Merwe, F. J., LittD *Ley.*, MA

Prof.

Jan Marais Prof.

Kotzé, D. J., MA DPhil

Prof.

Swart, M. J., MA DPhil *Pret.*

Sr. Lectr.

Pretorius, J. St. E., BA O.F.S., MA

Lectr.

1 Jr. Tech. Asst.

De Villiers, Gertruida E.

Lectr.

Papé, Mrs. Naom

Lectr.

Chuver, Elizabeth H. T.

Lectr.

Bowman, L.

Sr. Lectr.

Muller, D.

Lectr.

Du Plessis, H., BMus *S.A.*, BA

Lectr.

Bouws, J.

Lectr.

De Groot, P.

Lectr.

Van Wyk, A., BMus *Durh.*

Lectr.

Scholten, B.

Lectr.

Ottermann, R. E., BA BMus

Lectr.

Lubbe, Elizabeth M. B.

Jr. Lectr.

Lambrechts, Mrs. Anny

Temp. Lectr.

Hellstrom, Mrs. Joy

Temp. Lectr.

Philosophy, Moral and Metaphysical

Kirsten, J. F., MA DPhil

Prof.

Degenaar, J. J., MA DPhil

Sr. Lectr.

Physical Education

Claven, D. H., MA DPhil

Prof.

Postma, J. W., DEDPh

Sr. Lectr.

Wierfing, C. J.

Sr. Lectr.

Steinwender, Mrs. Hilde, MEdPh

Lectr.

Kelder, J. C.

Lectr.

Van der Merwe, J. J. R., BSc MEdPh

Lectr.

Nel, Hester I., MSc *Wellesley*, BSc

Lectr.

Wud, Beatrix M., BSc

Lectr.

Roberts, Rosemarie, BA BEdPh

Lectr.

2 Student Assts.

Physics

Cilliers, A. C., PhD *Fran.*, MSc

Prof.

Zeeman, P. B., DSc

Prof.

Frahn, W. E., DrRerNat *Aachen*

Prof.

Scheffler, T. B., DSc

Sr. Lectr.

Marais, D. J., PhD *Camb.*, MSc

Sr. Lectr.

Roelofse, C. J., MSc

Sr. Lectr.

Smuts, M. C. B., MSc

Lectr.

.....

Lectr.

..

Lectr.

Stemmet, M. C., MSc

Jr. Lectr.

2 Half Jr. Lectrs., 4 Mechanics, 2 Tech. Assts.,

51 Student Assts.

Psychology

Van der Merwe, A. B., MB ChB *Cape T.*,

Prof.

MA DPhil

Prof.

Theron, P. A., MA DPhil

Prof.

Du Toit, J. M., PhD *Cape T.*, MSc

Prof.

Van Bijl, J. J., MA MEd DPhil

Sr. Lectr.

Van Niekerk, H. G., BA MEd

Sr. Lectr.

Botha, A. G., BA MEd

Sr. Lectr.

.

Sr. Lectr.

Van Rooyen, J. W., MA

Lectr.

.

Lectr.

3 Tech. Assts., 52 Student Assts.

Semitic Languages

Weiss, P. F. D., DLitt *Pret.*, MA *Pret.* & *Stell.*,

Prof.

BD

Prof.

Fensham, F. C., MA DD *Pret.*, PhD *Johns H.*

Lectr.

Home Economics

Jooste, Maitha E., PhD *Oregon State*,
MScHomeEc

Sr. Lectr.

Louw, Gertruida J., BScHomeEc

Sr. Lectr.

Malherbe, Maria, BScHomeEc

Lectr.

Van der Merwe, Maria, BScHomeEc

Lectr.

Van Zyl, Mrs. Marieta L., BScHomeEc

Lectr.

LeRoux, Mrs. Isa A., BScHomeEc

Lectr.

Smuts, Mrs. Maria J., BScHomeEc

Temp. Lectr.

Maree, Mrs. Christine A.

† Lectr.

Lategan, Mrs. Judith E., BScHomeEc

Temp. Jr. Lectr.

8 Student Assts.

Law

De Wet, J. C., LL.D. *Ley.* & *Stell.*, BA

Prof.

Yeats, J. P., BA LL.D.

Prof.

Van der Westhuizen, W. M., BA LL.D.

Prof.

De Villiers, A. B., BA LL.D.

Prof.

Schwietering, K. F. J., BA *S.A.*, LL.B.

Sr. Lectr.

Librarianship

Kesting, J. G., MA *Cape T.*

Sr. Lectr.

Marais, G. V., BSc *Col.*, MA

† Lectr.

Du Plessis, F., BA

† Lectr.

Mathematics and Applied Mathematics

Cillie, G. G., Jr., DPhil *Oxon.*, MSc

Prof.

Le Roux, J. M., PhD *Lond.*, MSc

Prof.

Goldner, S. R. F., PhD *N.Y.*, MSc

Prof.

Jacobsz, C., BSc(Eng) *Rand.*, MSc *S.A.*,

M(SA)IME

Sr. Lectr.

Kannenber, K. R., DrRerNat *Bonn*

Sr. Lectr.

Voelker, D. H., PhD *Frib.*

Lectr.

De Villiers, A. J., BScEng

Lectr.

Nel, L. D., BSc

Lectr.

Goldenhuy, G., BSc

(on leave) Lectr.

Dreyer, T. P., MSc

Jr. Lectr.

27 Student Assts.

Medicine, see below**Music**

Behrens, R. H., BA BMus

Dir.

Van der Spuy, G. Z., MMus

Sr. Lectr.

Swanepoel, C., MMus

Lectr.

Social Work and Sociology

Theron, Erika, MA DPhil	Prof.
Cilliers, S P, MA LLB DPhil	Prof
De Villiers, J J, MASocWork DPhil	Lectr
Prinsloo, Maria J M., BA MComm S.A., DPhil Gron.	Temp. Lectr
Joubert, D D., MA	(on leave) Lectr
Muller, Anette, MASocWork	Lectr.
3 Tech. Assts, 16 Student Assts	

Theology

Muller, J J, ThDr Amst., DD S.A., MA	Prof.
Potgieter, F. J. M., PhD Cape T., ThDr Amst., MA	Prof
Verhoef, P A, MA S.A., ThDr Amst	Prof
Kotzé, J C G, ThD Prim, BA	Prof
Van der Merwe, W J., PhD Hartford, BA	Prof.
Hanekom, T. N., DD S.A., MA BD	Prof.

Zoology

du Toit, C A., PhD Cape T, MSc	Prof.
Malan, Magdalena E., DSc	Sr. Lectr
Engelbrecht, D v. Z., DSc	Sr. Lectr.
De Kock, J M., MSc	Lectr.
3 Tech. Assts., 28 Student Assts.	

AGRICULTURE**Agricultural Bio-Chemistry**

Perold, I S., DScAgric	Prof
Stubbs, O J., PhD Corn, BScAgric Pret.	Sr Lectr
Buys, G. S., BScAgric Natal, MScAgric Pret.	Lectr.
5 Student Assts.	

Agricultural Chemistry

Slabber, M. H., DScAgric	Prof.
Theron, A. A., PhD Corn, MSc	Prof
Weber, H W., DrAgric Humboldt Berl.	Sr Lectr
....	Lectr.

Agricultural Economics

.....	Prof.
Van Wyk, S P, MA DPhil	Sr. Lectr.

Agricultural Engineering

Perold, R. P., BScEng Cape T., BSc MScEng	Prof.
Conradie, P. J., BScEng	Sr Lectr.
Kriek, G. C., BScEng	Sr. Lectr.

Animal Husbandry

Swart, J. C., DScAgric	Prof.
Van Rensburg, P J J, BScAgric	Sr. Lectr.
Van der Merwe, F. J., DScAgric	Sr Lectr.
4 Student Assts.	

Biometrics

.....	Prof.
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Dairy Husbandry

Dixon, A, MSc Pret. & Wis.	Prof
.....	Sr Lectr.

Entomology

Durr, H J R, DSc	Prof.
Theron, J. G., PhD Lond., MSc	(on leave) Sr Lectr
Gilmore, J. H., MScAgric	Lectr
..	Lectr

Field Husbandry

Sim, J. T. R., BSc III, MSc S.A., DScAgric	Prof.
Wasserman, V. D., MScAgric	(on leave) Sr. Lectr
Joubert, J. G. V., BSc S.A.	Lectr

Food Technology

Nel, R. I., DScAgric	Sp. Prof.
Smit, C. J. B., BSc Pret., PhD Calif.	Prof.
Koepfen, B. H., MScFoodTechnol	Lectr.

Genetics

Laubscher, F X., DScAgric	(on leave) Prof.
Stevens, J M., PhD Birm., MScAgric	Sr. Lectr.
Pienaar, R de V., BSc PhD Rand	Sr. Lectr

Microbiology

Louw, H. A., PhD Aberd., MScAgric	Prof.
Van Regenmortel, M. H. V., MScAgric	Sr. Lectr.
...	Sr. Lectr.
Schoombee, N. F., BScAgric	Lectr.

Plant Pathology

Louw, A. J., DScAgric	Prof.
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Plant Physiology

Bezuidenhout, S. J. P. K., BSc Potchef.	Lectr.
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Pomology

Reinecke, O. S. H., DScAgric S.A., BSA Tor.	Prof.
De Wet, A F, MScAgric	Prof.
Strydom, D. K., PhD Calif., MScAgric	Sr. Lectr.

Poultry Husbandry

Laebenberg, C. R., MScAgric	Prof
Erasmus, J. E., DScAgric	Sr. Lectr

Veterinary Science

De Villiers, O. T., DVSc S.A.	Prof
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Viticulture

Theron, C. J., MScAgric	Prof.
De Waal, O T., MScAgric	Sr. Lectr
Orffer, C. J., PhD Calif., MScAgric	Sr Lectr

MEDICINE**Anæsthetics**

Foster, P. A., MB ChB Cape T.	Lectr.
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Cluver, J. A., MB ChB *Cape T.*
 Hackling, E. B., MA MB BChir *Camb.*
 Hackling, Mrs. Evangeline G., MB
 ChB *Cape T.*
 Henderson, G. C., MB ChB *Cape T.*
 Allan, R. D., MB ChB *Rand*
 Wooke, J. C., MB ChB MMed *Cape T.*
 Du Plessis, C. G. G., MB ChB
 MMed *Cape T.*

†Lectr
 †Lectr
 †Lectr.
 †Lectr.
 †Lectr.
 †Lectr.
 †Lectr.

Anatomy

Kirsten, J. F. van E., MB ChB *Cape T.*,
 FRCSEd
 Toerien, M. J., PhD *Rand*, MSc
 De Kock, E. C., MB ChB *Cape T.*, BSc

Prof.
 Sr Lectr
 Temp. Lectr.

2 Tech Assts., 3 Demrs.

Dentistry

De Wet, P. D., BDS *Rand*
 Tredoux, P. L., BChD *Pret*

†Lectr.
 †Lectr

Diseases of the Ear, Nose and Throat

Wykerd, H. C., MD *Gron*, FRCSEd
 De Villiers, J., MB ChM *Cape T.*
 Maytham, D. V., MB ChB *Cape T.*

†Lectr
 †Lectr
 †Lectr.

Diseases of the Eye

Ferreira, A. B. W., MB ChB *Cape T.*
 Du Toit, P. B., MB ChB *Cape T.*

†Lectr.
 †Lectr

Diseases of the Skin

Marshall, J., MD BS *London*
 Van der Meulen, H., MD *Amst*

†Lectr.
 †Lectr

Gynaecology and Obstetrics

De Villiers, J. N., MB ChB MO&G *Cape T.*
 Roux, J. P., MB ChB *Cape T.*
 Du Toit, P. F. M., MB ChB
 MO&G *Cape T.*
 Du Toit, D. A. H., MB ChB *Cape T.*,
 MD *Ley*
 Nel, R. W. A., MB ChB *Cape T.*

Prof.
 Lectr.
 Lectr
 Lectr
 †Lectr
 †Lectr

Medicine

Brink, A. J., MB BCh *Rand*, MD *Pret*,
 MRCP
 Wicht, C. L., MB ChB MMed *Pret*
 Le Roux, D. G., MB ChB *Cape T.*,
 MRCP
 Swanepoel, A., MB ChB *Cape T.*, MRCP

Prof.
 Lectr.
 †Lectr.
 †Lectr.
 †Lectr.

Dry, T. J., MB ChB *Cape T.*, MS *Mum*

†Lectr.
 †Lectr

Neuro-Psychiatry

Cluver, P. F., BA BM BCh *Oxon.*

†Lectr.

Neuro-Surgery

De Villiers-Hammann, H. L., BA
 MD *Munch*

†Lectr.

Occupational Therapy

....

Lectr

2 Y

Orthopaedics

Bell, H., MB BCh *Belf*, MChOrth *Lav*,
 FRCSEd
 Dall, G., MB ChM *Cape T.*
 Gold, J. M., MB MChOrth *Lav*, FRCS
 Steytler, J. C. S., MB ChB *Rand*,
 FRCSEd
 Anderson, G. C., MB ChB *Cape T.*,
 MCh *Lav*, FRCSEd
 Commerell, J. J., MB ChB *Cape T.*,
 MCh *Lav*, FRCSEd

†Lectr
 †Lectr.
 †Lectr.
 †Lectr.
 †Lectr.
 †Lectr.

Pediatrics

Opie, W. H., MB ChB MMed *Cape T.*
 Maggs, R. F., MB ChB *Cape T.*,
 MRCPed, FRFPGlas
 Suckling, P. V., MD, MRCP
 Murray, A. B., MB ChB *Cape T.*,
 MRCPed

†Lectr.
 †Lectr.
 †Lectr.
 †Lectr.

Pathology

Weber, H. W., DMed *Jena*
 Retief, C. P., MB ChB MMed *Cape T.*
 Schwab, T. G., MB ChB *Pret*
 Grové, S. S., FRCS
 Brede, H. H. D., DrMed *Cologne*

Prof.
 Sr. Lectr
 †Lectr
 Lectr
 Lectr

Pharmacology

..

Physical Medicine

.....

Physiology

Brink, H. E., DSc
 Engelbrecht, F. M., DSc
 Nienaber, M. W. P., BM BCh MA *Oxon*,
 BSc
 Esterhuizen, A. C., DSc
 Thart, B. F., BSc
 Wasserman, H. P., BSc MB ChB *Pret*.
 5 Student Assts., 2 Tech Assts.

Prof.
 Sr. Lectr
 Sr. Lectr.
 Lectr
 Lectr
 Lectr

Public Health

De Villiers, J. P., BA MB ChB *Cape T.*,
 MD *Dub*

Sp Lectr.

Radiology

Muller, C. J. B., MB ChB DMR *Cape T.*
 Beyers, J. A., MB ChB *Cape T.*, MD
 MMed *Pret*
 Keet, A. D., MB ChB *Cape T.*,
 MD *Amst*
 Krige, H. N., MB ChB *Dub*, DMR *Camb.*

†Lectr.
 †Lectr.
 †Lectr.
 †Lectr.

Surgery

van Zyl, F. D. du T., MB ChM *Cape T.*,
 FRCSEd
 Dreyer, B. v. R., MD ChM *Cape T.*,
 FRCSEd

Prof
 Lectr.

LANGUAGE OF INSTRUCTION Chiefly Afrikaans

FACULTIES AND DEANS (1961) *Agric.*, Prof. J. T. R. Sum (field husbandry), *arts & philos.* (incl. depts of Bantu studies and soc. studies), Prof. W. Kempen (Afrikaans-Dutch), *comm.*, Prof. D. E. W. Schumann, *educn.*, Prof. P. S. du Toit, *engin.*, Prof. R. L. Straszacker; *for*, Prof. C. L. Wicht, *late*, Prof. W. M. van der Westhuizen, *med.*, Prof. F. D. du T. van Zyl (*surg.*); *sci.* (including dept. of dom. sci.), Prof. A. C. Cilliers (*phys.*), *theol.*, Prof. W. J. van der Merwe

LIBRARIES Christian Marais and Carnegie 144,576 vols and 1400 periodicals. The univ. receives each yr. nearly 538 different annual and other publications

LABORATORIES Chem. inst. (De Beers bldg) for biochem. *scis.*, Mercensy bldg (*phys.*), home econ bldg, educn. bldg, phys. educn. bldg., *agric.* bldg., lab and workshop of fac. of *engin.*, natural *scis* bldg., D. F. Malan bldg. (*physiol.* & *anat.*); Van der Sterr bldg. (*psychol.*).

TEACHING HOSPITAL The Karl Bremer H. at Bellville, 17 mls from Stellenbosch, provides facilities for undergrad. and grad. teaching for the fac. of med. of the univ.

SPECIAL EQUIPMENT, COLLECTIONS, ETC Bot. gdn. and 3 hot-houses containing large collection of the peculiar xerophytic flora of S. A. Herbarium. Dept. of *agric. chem.* bldg. and equipment for manual pot-experiments. Dept. of Bantu studies. collection of specimens of native art and industry. Zool and geol. museums. Vivarium. Pomol. dept. and Western Province res. stn. for study of deciduous and other fruit trees. Viticulture dept. for studies in wine and spirit production. Dept. of educn. *psychol.*, child guidance clinic.

ADMISSION See p 1332

FIRST DEGREES. 3 yrs (4th yr. for hon.)—BA (Bantu langs., classics, *comm.*, *econ.*, *ethnol.*, *geog.*, *hist.*, *law*, *mod. langs.*, *music*, *native admin.*, *philos.*, *phys. educn.*, *psychol.*, *soc. sci.*, *speech trg.* & *dram. art.*, a candidate for hon. specializes for 1 yr after BA in one of the 2 majors which he took for the BA degree), BASoc Work, BSc (appl. *maths.*, *bot.*, *chem.*, *entomol.*, *genetics*, *geol.*, *maths.*, *microbiol.*, *phys.*, *physiol.*, *psychol.*, *stat. maths.*, *zool.*), a candidate for hon. specializes for 1 yr after BSc in one of the 2 majors which he took for the BSc degree—hon. possible in appl. *maths.*, *bot.*, *maths.*, *phys.*, *stat. maths.* only), BComm (*accty.*, *comm.*, *econ.*, *statistics*, *indust. psychol.*, *transport*), BA hon. in Africa studies, 1 yr. after BA; 3 yrs—BMed, 4 yrs—BMed, BScHomeEc, BScAgric (agron. *animal husb.*, *agric. biochem.*, *pomol.*, *agric. chem.*, *viticulture*, *microbiol.*, *poultry husb.*, *dairying*, *entomol.*, *agric. econ.*, *genetics*), BScFoodTech, BScFor, 5 yrs.—BSc BEng (civil, mech., electro-tech., *agric.*), 6 yrs.—MB ChB.

HIGHER DEGREES. 1 or 2 yrs —BEd; 2 yrs after BA(Law) or 3 yrs after any other bachelor's degree—LLB, 2 yrs —MA, MASocWork, MSc, MScHomeEc, MScAgric, MScFor, MComm, MEng, 3 yrs —MED, MMcd (*surg.*, *med.*, *obstet.* & *gynaecol.*, *anesth.*, *paed. pathol.*, *radio-diag.*, *ophthalmol.*, *otorhinolaryngol.*, *dermatol.*); candidates are not allowed to register for MMed before 2 yrs. after obtaining MB ChB and after registration for 1 yr with SA Med & Dent Council); MD (*surg.*, *med.*, *obstet.* & *gynaecol.*, *paed.*, *anesth.*, *path. radiodiag.*); candidates are not allowed to register for MD before 5 yrs after obtaining MB ChB, and before complying with the requirements for MMed (or equivalent); 4 yrs —BD, 2 yrs after master's degree—DPhil, DLatt, DSc, DEd, DEdPh, DScAgric, DScFor, DComm, DEng, PhD(Eng), MD, 2 yrs after BD—DD, 2 yrs after LLB—LLD.

HONORARY DEGREES DPhil, DLatt, DSc, DEd, LLD, DComm may be conferred as honorary or 'earned' degrees.

DIPLOMAS Higher dipl. in librarianship, sec. teacher's, 1 yr postgrad.; dipl. in hosp. dietetics, 1 yr after BScHomeEc, lower sec. teacher's, higher primary teacher's, teacher's dipl. in *phys. educn.*, *soc. work*, for teachers of *sp. classes*, teaching of music, teaching of dramatic art & speech trg., occupational therapy, 3 yrs., lower dipl. in librarianship, home econ., dipl. for church organists, 2 yrs.; teaching of home econ., 1 yr after dipl. in home econ.

CERTIFICATES Sp. teacher's cert. in music, 3 yrs.; primary teacher's cert. (*sp.*) in music, primary teacher's cert. (*sp.*) in speech trg. & *dram. art.*, sp. teacher's cert. in speech trg. & *dram. art.*, elem. cert. in speech trg. & *dram. art.*, each 1 yr., cert. in theory of *accty.*, 4 yrs.

RESEARCH Res. work forms an important part of the activities of the univ. In depts. of educn. *psychol.*, *psychol.*, *sociol.*, *geog.*, *hist.*, *agric.*, Bantu studies, Afrikaans-Nederlands, *geol.*, *biol.*, *law* and *econ.*, special attention is devoted to South African problems. The results of res. work are published regularly in the *Annals* of the univ. The univ. council awards special grants for carrying on scientific investigation work.

FEES. Registration (incl. sports fee and fees payable to students' representative council), £5 10s. p. a. Composite (incl. tuition, exam, lab., library and, in final yr., graduation fees), p. a. *Bachelor's degrees* BA, BComm, £46; BAPhysEd, BASocWork, BScPhysEd, £50; BSc, BScHomeEc, BScAgric, BScFoodTech, BSc BEng, MB ChB (1st yr.), BScFor, LLL, £56; BMus, £60; BA (music), BA (speech trg. & *dramatic art.*), £66; BEd (1 yr. postgrad. course), £40, BEd (2 yrs. postgrad. course), £20; BD, registration fees for 4 yrs plus £16 for 1 yr; MB ChB (2nd-6th yr.), £85, BMed, £5 exam. fees only *Honours degrees* BA hon., BASocWork hon., BSc hon., BComm hon., £40 for 1 yr. *Master's degrees*: (following on an hon. degree and MEd

following on BEd), £10 for 1 yr; (following on bachelor's degree), MA, MASocWork, MSc, MComm, £40 for 1st yr and £10 p a for further yrs; (students residing only 1 yr for master's degree), MA, MASocWork, MSc, MComm, £50, MScHomeEc, MEdPh, MScAgric, MScFood Tech, MScFor, MEng, £50 for 1 yr and for MScHomeEc and MEng, £10 p a for each further yr. (students residing at Stellenbosch), MEng (students not residing at Stellenbosch), £34 p a for each yr after 1st yr; MMus, £66 for 1 yr, MEd, £30 for 1st and 2nd yrs, £20 for 3rd yr. *Doctor's degrees* £28 p a for 2 yrs., DEng (students who completed res. work away from Stellenbosch), £52, PhD(Eng) (students who completed res. work away from Stellenbosch), £24 p a for 2 yrs. *Diploma courses* dipl. in home econ, teacher's dipl in home econ & needlework, teacher's dipl in phys educn, sec teacher's dipl, lower sec teacher's dipl (with BA subjects), lower sec. teacher's dipl (with BSc subjects—3rd yr); higher primary teacher's dipl (also after BA), lower and higher dipls. in librarianship, dipl in soc work, dipl for teachers of sp. classes, dipl in occupational therapy, £50; dipl in hosp dietetics, £1.58. registration fees plus £1.10. exam fees, cert. in theory of accountancy, £40 p a.

ACADEMIC YEAR 4 terms Term dates (1962)
Feb 19–April 19; April 30–June 28; July 30–
Sept 21, Oct. 1–Dec 7

THE YEAR 1960

PRINCIPAL BENEFACTIONS Total value of all benefactions received: £48,517

MAJOR BUILDING DEVELOPMENTS. *Bldgs completed* new men's residence (Bendrag), extensions to women's residence (Huis ten Bosch) *Approaching completion.* extensions to Merensky bldg, bldg for phys educn, women's residence (Huis de Villiers).

NEW FACULTIES, DEPARTMENTS AND CHAIRS
Fac.: military sci. Depts.: drama, occupational therapy, microbiol., forest sci., wood sci. Chairs: military sci., drama, microbiol., agric. chem.

RETIREMENTS Prof. C. G. W. Schumann (comm.); D J Nolte (comm)

RESIGNATIONS. J M. Allen (Engl); C H M de Beer (engin); P. E. de Waal (agric econ), to farming; J G H du Preez (chem.), apptd. si. lectr. in chem. Univ. Coll. of the Western Cape, Catharina L. Ehlers (home econ.), P. R. B. Fournie (asst. acct.), to farming, Mrs Warmia C. Ghiomee (home econ.); A G. Hooper (Engl), apptd prof of Engl., Montr; W. J. F. S. Lutsch (engin), apptd engnr, Rembrandt group; W. R. Martin (Engl.), apptd. to Can univ., G. J. Ritter (phys), apptd to Can univ.; H. S. Schoeman (comm.), apptd lectr., Pret., J J van der Watt (plant pathol.), to private practice; Erika G. M. Wittmann (home econ.), on marriage.

PHYSICAL TRAINING. Although phys trg is not compulsory the majority of the students participate in rugby, cricket, tennis, baseball, netball, boxing, swimming and athletics.

HEALTH OF STUDENTS. Assistance of fully trained nurse at disposal of all students who may require her services Periodical inspections to ascertain general health of all students in univ hostels.

RESIDENCE For men John Murray-Huis (tel. 1392), accomm 437, £115 p a., Wilgenhof (tel. 0032), 104, £109 p a., Helderberg (tel. 0045), 204, £115 p a., Huis Visser and Huis Marais (tel. 0046 and 0053), together accomm 247, £115 p a., Simonsberg (tel. 0072), 278, £115 p a.; Bendrag (tel. 0105), 250, £115 p a. For women, each £111 p a., except Greylock and Macdonaldhuis, each £106 p a. Huis de Villiers (tel. 0047), accomm. 116, Huis ten Bosch (tel. 0015), 96; Huis van Niekerk (tel. 0027), 160, Harmonie (tel. 0041), 69; Monica (tel. 0028), 120, Lydia (tel. 1223), 154, Macdonaldhuis (tel. 0033), 30; Greylock (tel. 0043), 27; Minerva (tel. 0088), 236

PUBLICATIONS *Calendai* (annual, Nov), *The Stellenbosch Student* (by students' rep council), *Annals of the Univ of Stellenbosch* (by senate); *Matteland* (for old students and donors).

DEATHS Prof. F. M. P. Oosterhof (prof of French).

HONORARY DEGREES. *DED*—J. J. P. Op't Hof, sec of educn, arts & sci, Republic of S Africa. *DSc*—Dr. T. E. W. Schumann, chairman, S. African atomic energy bd.

Statistics

	STUDENT NUMBERS, JUNE 1961	
	Full-Time	Part-Time
Men	2846	289
Women	1367	100
Total	4213	389

Distribution by Faculties Agric, 387; arts, 1339, comm., 459, educn, 620; engin, 310, for., 56; law, 46, med, 297, military sci, 87, sci, 930, theol, 62 Total. 4602.

Included in the figures above are —

Postgraduate students, 676.

New admissions, 1191.

Students from other countries, 233 (Countries from which largest numbers came: S.W Africa, 179, S. Rhodesia, 24)

DEGREES AWARDED (1960). Agric., BScAgric, 51, BScFor, 7; BScFor (hons), 1; MScFor, 2, DScFor, 1; MScAgric, 7; DScAgric, 1.

Arts. BA, 223, BASocWork, 12; BMus, 8; MMus, 2, BA (hons), 72; MA, 9, DLitt, 1
Comm. BComm, 51, BComm (hons), 6;
 MComm, 2. *Educn*. BEd, 16, BEdPh, 1,
 MEd, 3, DEd, 1; DEdPh, 1. *Engin*. BScEng,
 47, MEng, 2. *Law*. LLB, 17. *Milit*. BMil,
 8. *Sci*. BSc, 97, BScHomeEc, 3; BSc (hons),
 17, MSc, 19; MScFoodTech, 1, DSc, 2
Theol. BD, 6, Med. MMed, 2

DIPLOMAS AWARDED (1960) Dipl in soc.
 work, 3, higher dipl in librarianship, 7, lower
 dipl in librarianship, 2, teacher's dipl in music,
 21; dipl for church organists, 8, dipl in home

econ., 46, sec. teacher's dipl, 131, teacher's dipl.
 in comm, 3, teacher's dipl in home econ &
 needlework, 26, lower sec teacher's dipl, 6,
 higher primary teacher's dipl., 25, teacher's dipl.
 in phys educn, 7, dipl for teachers of sp classes,
 15, dipl in comm, 4, teacher's dipl in speech trg
 & dram. art (Afr), 2

CERTIFICATES AWARDED (1960) Sp teacher's
 cert in music, 5; cert in choir trg., 30, primary
 teacher's cert (sp) in speech trg & dram. art
 (Afr), 3, elem. cert in speech trg & dram. art
 (Afr), 2, sp teacher's cert. in speech trg. &
 dram art (Afr), 1.

UNIVERSITY OF THE WITWATERSRAND JOHANNESBURG*

Founded 1921

Postal Address : Milner Park, Johannesburg, Transvaal, South Africa

Cables and Telegrams University, Johannesburg

Telephone . 835-8181

CHANCELLOR—Hon O D SCHREINER, MC, MA Hon. LLD
VICE-CHANCELLOR AND PRINCIPAL—W G. SUTTON, BA BSc(Eng) *Cape T*, MICE
VICE-PRINCIPAL—I G THOMAS, MA *Oxon*
CHAIRMAN OF COUNCIL—B L. BERNSTEIN, BA LLB
PRESIDENT OF CONVOCATION—S S ISRAELSTAM, MSc PhD, FRIC
DEAN, FACULTY OF MEDICINE—E. H. CLAVER, ED, MA MD BCh *Oxon*, DPH *Lond*
REGISTRAR—A DE V. HERHOLDT, BCom
FINANCE OFFICER—E. L. HUDDLE, BCom
LIBRARIAN—J. W. PERRY, MA *Camb.*, DipLib *Lond*, FLA

TEACHING STAFF

[†=Part-Time]

Accounting		Archæology	
Wimble, B. J. S., FSAA	Prof, Hd of Dept.	Malan, B. D., BA <i>Cape T.</i> , FSA	Prof
Cairns, T., BCom <i>Cape T</i>	Sr. Lectr.		† Lectr.
Taylor, I. R., BL <i>Glas.</i>	Sr. Lectr.	Architecture and Quantity Surveying	
Kritzinger, L.	Sr. Lectr.	Fassler, J., BArch	Prof.
Steele, J. T., BCom	Sr. Lectr.	Howie, W. D., BArch DipTP	Assoc. Prof.
King, K. W., BCom	Sr. Lectr.	Mallows, E. W. N., MA <i>Camb</i>	Sr. Lectr.
3 Lectrs †		Shunn, J. M., BArch DipTP	Lectr.
Afrikaans and Nederlands		Tomaselli, U. R., BArch	Lectr.
Louw, N. P. van W., MA BEd <i>Cape T.</i>		Beinart, J., BArch <i>Cape T</i> , MArch <i>Mass</i> ,	
Hon DLatt <i>Utrecht</i>	Prof, Hd of Dept	MCP <i>Yale</i>	Lectr.
Coetzee, A. J., DLatt&Phil <i>Nymegen</i> , MA		Pincus, M. E.	Lectr.
DLatt	Prof.	Lennard, McD D., BArch	Lectr.
Nienaber, P. J., MA S A, DLatt&Phil <i>Amst.</i>		6 Lectrs †	
	Assoc. Prof	Bantu Languages	
Van Heerden, E., MA <i>Stell.</i>		Cole, D. T., MA	Prof.
DLatt&Phil <i>Ghent</i>	Sr. Lectr	Cole-Beuchat, Mrs Phyllis D., BA	Lectr.
Du Plessis, P. G., BA	Lectr	Moephuli, I. M., BA	Lang. Asst.
1 Temp. Jr. Lectr., 1 Asst.†		Mfeka, R. M., BA <i>Rhodes</i>	Lang. Asst.
Anatomy		Sikakana, J. M. R.	Temp. Jr. Lang. Asst
Tobias, P. V., PhD MB BCh, FRAI	Prof	Botany	
Allan, J. C., MB ChM, FRCSEd	Sr. Lectr	...	Prof.
Andrew, Ann, MSc	Lectr	Roux, E. R., PhD <i>Camb.</i> , MSc	Sr. Lectr.
Goldstein, D. J., BSc MB BCh	Lectr	Hancock, Florence D., MSc	Lectr.
De Villiers, Mrs Hertha L. A., MSc	Lectr	Swart, H. J., DSc <i>Utrecht</i>	Lectr.
De Beer, Pamela M., MB BCh	Lectr	Wilsenach, R., BSc S A., MSc	Lectr.
Veenstra, Mrs. Emily M., BSc	Lectr	Balinsky, J. B., PhD <i>Lond</i>	Lectr.
8 Temp. Assts, 6 Lectrs, 3 Sr. Lab Techns			

* Member of the Association of Universities of the British Commonwealth

Lucas, Mrs Annabelle, MSc
Gillard, P.
1 Sr Lab Techn

Jr. Lectr.
Jr. Lectr.

Fosbery, M W, BA Oxon
MacLennan, D A. C., MA Edin. Temp Lectr.

Fine Arts

Chemistry and Chemical Engineering

Backeberg, O G, MA Oxon, DSc, FRIC
(Org. C) Prof, Hd of Dept
Sebba, F., DIC, MSc PhD Cape T.,
FRIC (Phys C) Prof.
Israelstam, S. S., MSc PhD, FRIC Assoc. Prof
Marais, J L C, MSc PhD Sr Lectr
Simpson, J D., MSc PhD Sr Lectr
Van Es, T., BSc Lectr
Walraven, J J., ChemEng TH Delft Lectr.
Glasser, L., BSc Cape T, PhD Lond Lectr
Ahlers, W C, MSc Pret Lectr
2 Grad Assts, 3 Sr Lab Techns.

Martenssen, Mrs. Heather, PhD Lond ,

BArch MA Prof
Long, Marjorie K, BA(FA) S A. Lectr.
Argent, C P A, BA(FineArts) R'dg. Lectr
Stein-Lessing, Maria, DPhil Bonn Lectr.
2 Lectrs†

Geography

Jackson, S P., DIC, PhD Lond, MA Prof
Fair, T. J. D., MA S A, PhD Natal Sr. Lectr.
1 Grad Asst Lectr

Geology

Gevers, T W., MA DSc Cape T.,
DrPhil Munich, FGS Prof.
Mendelsohn, E., MA Harv., MSc Assoc. Prof.
Van Bijl, W J, MSc Pret., PhD Sr. Lectr.
Plumstead, Mrs. Edna P., DSc †Sr Lectr.
Melver, J R., BSc Stell Lectr.
Morris, H C., BSc(Eng), FGS Lectr.
Brink, A. B A, BSc Pret Lectr.
1 Sr Lab. Techn.

Econ Geol Res. Unit

Pretorius, D. A., MSc Sr Res. Fellow
Roering, C, BSc(Eng) Res Fellow
Collender, F D, BSc(Eng) Res Fellow

Geophysics

Hales, A L., MA Camb, MSc PhD Cape T.,
FRSSAf Prof
Gisham, K W T, BSc Cape T Lectr.

German

Seidler, H., PhD Innsbruck Prof
Tober, K., PhD Innsbruck Sr Lectr.
1 Lectr.†

Hebrew

Rappaport, S, PhD Vienna Temp. Lectr
1 Lectr.†

History

Marais, J. S., MA Cape T., BA DPhil Oxon. Prof.
Ballinger, R. B., MLitt Camb, BA S.A. Sr. Lectr
Garson, N. G., BA Camb., MA Lectr.

International Relations

Cockram, B, MA Oxon., PhD Mich.
Jan Smuts Prof

Law

Hahlo, H. R., DrJur Halle, LLB Prof.
Kahn, E., BCom LLB Prof.
Lansdown, A. V., BA Cape T., LLB S.A.
Sr. Lectr.
Boberg, P. Q. R., BA LLB Sr. Lectr.
Hepple, B. A., BA LLB Sr. Lectr.
4 Lectrs†

Classics

Davis, S, MA Camb & Rand, DLatt Prof
Thorpe, A., BA Oxon, MA Lectr
Lagouros, A., BA Constantinople Lectr.
Saddington, D B., BA Lectr
1 Lectr†, 1 Grad Asst

Commerce and Applied Economics

Richards, C. S., MCom Durh., DSc(Econ)
Prof, Hd of Dept.
Van Waasdyk, T., EconDrs EH Rotterdam,
MCom PhD Sr. Lectr.
Goedhuys, D W, EconDrs Amst Sr. Lectr
De Swardt, Mrs. Bernice D., MA S A Lectr
Percy, Mary V., BA R'dg Res Asst

Dentistry, see below

Divinity

Prof

Economics and Economic History

Lachmann, L M., MSc(Econ) Lond.,
DrRerPol Berl Prof
Samuels, L. H., BCom Sr Lectr.
Wright, H. R. C, PhD Camb. Sr Lectr.
Welsh, Mrs. Anne, BA Oxon. & Rand Lectr.
2 Lectrs†

Education

Gourlay, N, BSc EdB MA Glas, PhD Berm. Prof.
Tunmer, R, BA Natal & Camb, BEd
Natal Lectr

Engineering, see below

English

Partridge, A C, MA Pret, PhD Cape T Prof
Gring, H K, MA Oxon Sr. Lectr.
Hall, A. D., MA Oxon Sr Lectr.
Mews, Hazel, MA Lond, FLA Sr Lectr
Gring, Mrs. Zoe N, MLitt Camb., BA Lectr.
Brinkshaw, P. C, MA DipEd Oxon Lectr
Seymour, M. C., DPhil DipEd Oxon. Lectr.

- Librarianship**
 Perry, J. W., MA *Camb*, DipLab *Lond.*, FLA Hd of Dept.
 Lunn, Mrs Betty J., BA, FSALA Temp. Lectr.
 5 Lectrs †
- Logopedics**
 Bauman, Mrs Sheila, MA Sr Lectr
 Aron, Myrtle, MA Clin. Tutor
 Marks, Margaret, MA Clin. Tutor
 3 Jr Clin Tutors, 1 Lectr †
- Mathematics**
 Isaacs, G. L., MSc *Cape T.*, PhD *Lond.* Prof, Hd. of Dept
 Young, F., MA DipActMath Assoc. Prof
 Boyd, A. V., MSc Sr. Lectr
 Harrington, Catherine F., MSc Sr. Lectr.
 Stein, B., MA *Oxon.* Lectr.
 Helmstedt, Mrs Janet M., BA Lectr
 Higgs, D. A., BA *Camb*, BSc Lectr.
 Wood, I. D., BSc *Rhodes*, MA *Camb* Lectr
 Mohamed, I. J., PhD *Lond.*, MSc Lectr
 Hardwich, Joanne C., BSc *Cape T.* Jr Lectr
 Joubert, G. R., BSc *Stell* Jr. Lectr
- Mathematics, Applied**
 Beksley, A. E. H., MSc *Stell.*, DSc Prof.
 Oliver, H. O., MSc *Stell* Sr. Lectr
 Van der Merwe, J. H., DSc *Ley*, MSc *Stell.* Lectr.
 Kuperman, I. B. Z., MSc *Cape T* Sr. Lectr
 Walker, R. M., MA *Oxon.*, BSc Lectr
 Burne, G. C., MSc Lectr
 Cronje, J. P., MSc Jr. Lectr
- Medicine, see below**
- Metallurgy, see Engineering, below**
- Mining Engineering, see Engineering, below**
- Music**
 Hartmann, F. H., DrJur *Vienna*, DMus *S.A.*, FTCL Prof.
 Schneider, U. V., MMus *S.A.*, PhD *Rhodes* Lectr
 Van Oostveen, K. Lectr
 1 Lectr †, several Instr.† in Practical Performance
- Philosophy**
 Van Ryswyck, W. A. E., LLD PhD *Louvain* Prof
 Robinson, R. G., MA *Alta* Sr. Lectr, Actg Hd. Lectr
- Phonetics and General Linguistics**
 Lanham, L. W., MA PhD Prof.
 Breckwoldt, G. H., DPhil *Hamburg* Sr. Lectr.
 2 Lectrs †, 1 Lab. Techn
- Physics**
 Nabarro, F. R. N., MBE, BSc MA *Oxon*, DSc *Birm* Prof, Hd. of Dept.
 (Exper P) Prof
 Brommert, J. W., BSc Sr. Lectr
 Eagle, B. A., BSc *S.A.*, MA *Camb* Sr. Lectr
 James, D. L., BSc(Eng) Sr. Lectr
 Ramsey, W. H., BSc *Belf*, PhD *Brist.* Sr. Lectr.
 Silk, E. C. H., PhD Sr. Lectr.
 Hiraon, B. M., BSc Sr. Lectr.
 Delatizky, B., MSc *Cape T.* Lectr.
 Jackson, P. J., BSc Lectr.
 Matthews, J. W., BSc Lectr
 Henning, BSc *Stell.* Jr Lectr
 Kushlick, I., MSc *Cape T* †Lectr
 Kerr, D. S. M., BSc Isotope Officer
 4 Lectrs †, 3 Res Assts, 2 Grad Assts, 1 Instrument Maker, 1 Sr Lab. Techn
- Nuclear Phys Res Unit**
 Sellachop, J. P. F., MSc *Stell.*, PhD *Camb* Prof.
 Mouton, W. L., MSc *O F S.*, PhysDrs *Utrecht* Res. Fellow
 Keddy, R. J., MSc *Pret.*, PhD *Lond* Res. Fellow
 Mingay, D. W., MSc Res. Fellow
 2 Res. Assts, 1 Sr. Lab. Techn
- Physiology**
 Otto Best Prof
 Levy, P. R., DPhil *Oxon.*, MSc Sr. Lectr.
 Savage, Nerina, MSc *O F S*, PhD *Camb.* Lectr.
 De Caire, E. A., MA *Camb* Lectr.
 Trout, G. E., BSc *Sheff* Lectr
 Lazarus, N. R., BSc MB BCh Lectr
 Goldstone, B. W., BSc MB BS *Lond.*, FRCSEd Temp. Lectr
 7 Lectrs.†, 3 Sr. Lab. Techns.
- Political Studies, including Local Government**
 Le May, G. H. L., BA *S.A.*, MA *Oxon.* Prof.
 Fryer, A. K., BA PhD *Rhodes* Sr. Lectr
 Livingstone, D. S., MA *Durh.* Sr. Lectr
- Psychology**
 MacCrone, I. D., MA *Cape T. & Oxon.*, DPhil Prof
 Hannon, Mrs. Alma E., MA *Cape T* Lectr.
 Lejeune, Yvonne A., PhD Lectr
 Radloff, W. P., BSc *Natal* Lectr.
 2 Lectrs †
- Quantity Surveying, see Archit. and Quant Surv. •**
- Romance Studies**
 Valkhoff, M., DLitt&Phil *Amst* (French) Prof, Hd of Dept
 Naldi, G., DotinLett *Florence* (Italian) Temp. Sr. Lectr

Bettencourt, Mrs. Maria E. (Portuguese) Lectr
Axelson, E. V., MA S A, DLitt Rea. Asst
2 Lectrs †, 1 Grad Asst.

Social Anthropology and African Administration

Marwick, M G, MA BA(SS) S.A Prof
Lewin, J, BA LLB Cape T Sr. Lectr
Blacking, J. A R, MA Camb Lectr.

Sociology and Social Work

Wagner, O. J. M, MA Cape T, DPhil Stell Prof
Badenhorst, L. T, MA Stell, DLitt Sr Lectr
Engelbrecht, G. K., MA PhD S A Sr. Lectr.
Muller, Mrs. Ceciel, BA(SocSc) Stell. Lectr.
Seawright, Mrs. Thelma R,
MSocSc Cape T, PhD Supt of Field Work
Schlemmer, L., BA Pret Jr Lectr
1 Grad Tutor

Statistics

Kerich, J E, DiplActuarialMaths Edm, Prof
MSc
Van der Meyden, F, BCom S A Lectr

Surveying, see Engineering, below

Zoology

Balinsky, B I, DBiolSc Kiev Prof
Nolte, D J, MSc Pret, DSc Sr. Lectr.
Kalk, Mrs. Margaret J, BSc Lond, PhD Sr. Lectr
MacNae, W, BSc Glas, PhD Cape T Lectr.
Hartmann-Goldstein, Mrs. Ingeborg J.,
BSc Pret, PhD Vienna Lectr
Gable, Mrs. Vivian, PhD Lectr
James, V G, BSc Jr. Lectr.
1 Grad Asst, 1 St Lab Techn

DENTISTRY

(for subjects of first 2 yrs — Anat., etc., see above;
for other subjects common to D and Medi-
cine — e.g. Pathol, see Medicine, below)

Children's Dentistry

†Lectr. & Clin. Lectr.

Clinical and Applied Oral Anatomy

Stein, I, MB BCH MDS Hon Lectr

Conservative Operative Dentistry

Shepherd, G. F, LDS Luv. †Prof

Dental Anaesthetics

Bentel, H, MB BCH †Clin. Lectr
London, M S., MB BCH DA †Clin. Lectr.
Fischer, M., MB ChB Luv, DA
†Lectr. & Clin. Lectr

Dental Ethics and Jurisprudence and Conduct of Dental Practice

Kessel, A., BDS †Lectr

Dental Metallurgy and Properties of Dental Materials

Valcke, C F, FDSRCS Lectr.

Dental Prosthetics

Hossack, F A, Hon MDS Durh. †Prof

Dental Radiology

Gordon Stewart, F, MB BCH Dub.,
DMRE Camb, FRCSI Hon. Radiologist
Dodds, A E, BSc BEd S A, BDS Prof.

Dental Science

Staz, J, DDS, FRSSAf Prof., Hd of Dept
Hossack, F. A, Hon MDS Durh. †Prof
Shepherd, G. F., LDS Luv †Prof

Dental Surgery

Staz, J, DDS, FRSSAf Prof

Experimental Odontology

Dreyer, C. J., BSc S A, BDS HDipIDent Prof.

Maxillo-Facial and Oral Surgery

Brown, L J †Prof
Brown, J. M., BDS, FDSRCS †Lectr.

Oral Medicine

Dodds, A. E, BSc BEd S A., BDS Prof

Orthodontia

Gavron, G, BDS DipOrth †Lectr.

Pathology and Histopathology of the Teeth and Oral Cavity

Baikle, G G, FDSRCS Sr Lectr.

Pharmacology

Beyer, J H, Tandtarts Utrecht
Lectr & Clin. Lectr

Pre-Clinical Prosthetic Dentistry

Van Reenen, J. F, DiplBact Lond., BDS
HDipIDent Lectr. & Demr.

Public Dentistry

Laug, Jean, LDS DPD St.And Hon. Lectr

Special Anatomy and Physiology

Staz, J., DDS, FRSSAf Prof

Clinical Lecturers

Shear, M., BDS HDipIDent Lectr.
Viljoen, P. T., BDS Lectr.

Copelyn, M., BDS HDplDent	Temp Lectr	Van Gorp, A. B M, Ir <i>T.H Delft</i>	Lectr
Joffe, B. M., BDS	Temp. Lectr.	1 Techn Asst, 1 Sr Lab Techn	
Lemmer, J., BDS	Temp Lectr.		
Wingrin, D. B., BDS	Temp Lectr.		
Van Rensburg, B G J, BDS	Temp Lectr	Metallurgy	
Spruyt, J L L, BDS	Temp Lectr.		
37 Hon Clin. Lectrs. in Operative, Conservative or Prosthetic Dent., 7 Hon. Clin Lectrs in Orthodontics; 7 Dent Mechanicians		Mavrocordatos, C E, BMet <i>Sheff</i> , FIM	Prof.
		Timmermans, O. E B, BSc(Eng) PhD	Sr. Lectr.
		Siff, A., MA <i>Cape T</i>	Sr. Lectr.
		Le Roux, D B., BSc(Eng)	Lectr.
		Robinson, F P. A., BSc(Eng) PhD, 1 Sr Lab Techn.	Lectr

ENGINEERING

(see also Archit, above)

Chemical Engineering

Volckman, O. B., BSc PhD <i>Lond</i>	Prof
Woodburn, E. T, BSc <i>Cape T</i>	Sr. Lectr
3 Temp Jr Lectrs.	

Civil Engineering

Jednings, J E. B., SM <i>M.I.T.</i> , BSc(Eng), MICE	Prof, Hd of Dept.
Ockleston, A. J, BE <i>N Z</i> , PhD <i>Brist</i> , DSc(Eng), MICE	(Structural E.) Prof
Midgley, D. C., BSc(Eng)	
PhD <i>Natal</i>	(Hydraulic E.) Prof.
Mills, R H., BSc(Eng)	Sr Lectr.
Maltz, M., BSc(Eng)	Sr Lectr
Knight, K., BSc(Eng)	Lectr
Schwartz, H. I., DIC, BSc(Eng)	Lectr
Wolhuter, C W., BSc(Eng) <i>Stell.</i>	Lectr
Blight, G. E., DIC, PhD <i>Lond.</i> , MSc(Eng)	Lectr.
Nutt, L P., BSc(Eng)	Lectr
1 Sr. Lab. Techn.	

Electrical Engineering

Bozzoli, G. R., DSc(Eng), MIEE	
(Light Current) De Beers Prof., Hd of Dept	
Cormack, W., BSc(Eng) <i>Cape T.</i> , DSc(Eng), MIEE	(Heavy Current) Prof.
Kitsa, R., MSc(Eng)	Sr. Lectr.
Wood, N R., MA <i>Camb.</i>	Sr. Lectr.
Webb, V L., BSc(Eng)	Lectr
Posel, K., BSc(Eng) PhD	Lectr.
Milner, M., BSc(Eng)	Lectr
Vlaskamp, N. E., BSc(Eng)	Jr. Lectr.
2 Sr Lab. Techns.	

Mechanical Engineering

Smolensac, S., MSc <i>Warsaw</i> , DIC, PhD <i>Lond.</i>	John Orr Prof.
Rallis, C. J., MSc(Eng)	Sr Lectr.
Simon, H. A., BSc(Eng)	Sr. Lectr
Duggan, T O'D., BSc(Eng)	Sr Lectr
O'Donovan, K H. J, MSc(Eng)	Sr Lectr.
Favero, R. A C R., Dotling <i>Genoa</i> , MSc(Eng)	Sr Lectr.
Boyd, C. O., BS(MetEng) <i>Carnegie Tech Inst.</i> , BSc	Lectr
Dimitriou, C., BSc(Eng) <i>Glas</i>	Lectr

Mining Engineering

Black, R. A L, DSC, BSc(Eng) <i>Lond</i>	Chamber of Mines Prof
Edwards, E P, BSc(Eng) <i>Lond</i>	Sr Asst.
Edwards, T., BSc <i>Lond.</i>	Sr Lectr.
Simpson, T P.	Sr Lectr.
Johnston, H. A., BSc(Eng)	Res. Fellow
Sutherland, R B., BSc(Eng)	Res. Fellow

Surveying

Lauf, G B, DSc(Eng)	Prof.
Freslich, J G, BSc(Eng)	Sr Lectr
Watt, I B., BSc(Eng)	Sr Lectr.
Meyer, O. H H, DiplIng <i>Berl.</i>	Lectr

MEDICINE

(for subjects of first 2 yrs.—Anat., etc., see above)

Anæsthetics

Nicholson, J C, MB ChB <i>Manc.</i> , DA	Chief Anæsthetist
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Diseases of Children

Heymann, S C., BSc MB BCh	†Chief Pediatrician
---------------------------	---------------------

Diseases of Children, Surgical

Trubshaw, W. H D, FRCS	†Sr. Surgeon
------------------------	--------------

Diseases of the Skin

Gluckman, I	†Chief Dermatologist
-------------	----------------------

Dispensary Practice

Granat, L., MB BCh <i>Cape T.</i>	Tutor
-----------------------------------	-------

Ear, Nose and Throat, Diseases of

Kerr, W. A., DLO	†Sr. Aural Surgeon
------------------	--------------------

Eye, Diseases of the

Franks, M., MB BCh DOMS, FRCSEd	†Chief Ophthalmologist
---------------------------------	------------------------

Forensic Medicine

Friedman, J., MD BCh DPH	Hon. Prof.
--------------------------	------------

Kemp, V D, MB BCh
Weintraub, C M, MB BCh

Hon Sr. Lectr.
†Lectr.

Yodaiken, R E, MB BCh
2 Grad Assts, 3 Lab Techns

Lectr.

Medicine

Elliott, G. A, OBE, MD *Cape T.*, FRCP,
FRSSAf Prof., Chief Physician
Gear, J. H., BSc MB BCh DTM&H
Assoc Prof., Sr Physician, Sr Asst to
Prof

Torrance, J D., MSc Lectr
2 Sr. Lab Techns.

Medicine, Physical

Lomey, A L, MD BCh DPhysMed
†Chief Specialist

Nursing Education

†Hd of Sub-Dept

Teaching in this sub-dept. is also undertaken by staffs of depts of Anat., Chem., Educn., Obstet. & Gynaecol., Pathol., Pharmacol., Physiol., Physiotherapy, Psychol., Surg. and Zool., and by teaching staffs of Johannesburg General Hosp. and Nursing Coll.

Obstetrics and Gynaecology

Heyns, O S, MA BSc *Cape T.*, DSc, FRCOG
Prof., Chief Obstetrician & Gynaecologist
Daubenton, F., BSc MB BCh
Sr Asst to Prof., Sr. Obstetrician & Gynaecologist
1 Sr Lab. Techn

Occupational Therapy

Lomey, A L, MD BCh DPhysMed
†Hd of Sub-Dept.
Grieves, S. G. Lectr.
Cynkin, Simme, DipOT Lectr.
Jack, Beatrice I. Craft Instr.
2 Instrs.†

Orthopaedics

Edelstein, J M, MB ChB *Edm.*,
MChOrth *Lon.*, FRCSEd
†Nuffield Lectr., Chief Orthopaedic Surgeon

Pathology and Microbiology

Becker, B J P., MD BCh DPH DTM&H
(Merbid Anat. & Histopathol.)
Prof., Hd of Dept
Stein, H. B., MSc MD BCh DPH DCP
(Chem. Pathol.) Prof.
Murray, J. F., MD ChB DPH *St. And*
(Clin. Pathol.) Hon. Prof.
Shuppel, S., MD BCh Sr Lectr.
Heinz, H J R E., PhD *Munch* Sr Lectr.
Stew, Shirley, MB BCh Sr Lectr.
Getz, G S, BSc MB BCh Lectr.
Mendelsohn, D., BSc MB BCh Lectr.
Bradlow, B. A., BSc MB BCh Lectr.
Abrahams, C., MB BCh Lectr.

Pharmacology and Therapeutics

Hovy, J W H, BSc *Pret.*, PhD Prof
1 Temp Jr Lectr., 1 Sr. Lab Techn Sr. Lectr

Physiotherapy

Lomey, A L, MD BCh DPhysMed
†Hd of Sub-Dept
Blair, Jean Sr Lectr
Taylor, Mrs Gwendoline D. Lectr.
Hinze, Margaret F H Lectr.
Kastell, Mrs Helen B †Lectr
1 Temp Jr. Lectr

Teaching in this dept is also contributed to by staffs of depts of Phys., Chem., Zool., Anat., Physiol., Surg. and Obstet. & Gynaecol

Plastic Surgery

Cuthbert, J. B, MA PhD *Cape T.*,
MB BS *Lon.*, FRCSEd
†Sr Plastic Surgeon

Preventive Medicine

Hon. Prof.

Psychological Medicine

Hust, L. A, BA BSc MB BCh PhD *Cape T.*,
MD *Pret* Prof.
6 Lectrs †, 4 Clin Lectrs, 9 Clin Demrs.

Radiology

Kaye, J, DMR *Cape T.* Chief Radiologist

Surgery

Du Plessis, D J., MB ChB *Cape T.*, ChM,
FRCS Prof., Chief Surgeon
2 Sr. Lab. Techns.

Thoracic Surgery

Fatti, L., MB BS *Lon.*, FRCS
†Sr. Thoracic Surgeon

Tropical Medicine

Gear, J H S, DipBact *Lon.*, BSc MB
BCh DPH DTM&H †Sr Lectr.

Urology

Jordaan, J. C., MB MCh *Cape T.*
†Chief Urologist

Vascular Diseases

2 Second Medical Assts †

Veneral Diseases

Sieff, B, MB BCh †Sr. Clin. Lectr.

ADMINISTRATIVE AND OTHER STAFF

Asst Registrar H van Huyssteen, BA Cape T, LLB S.A. Accountant G E S Burns, Asst. Accountant. F. H. Barnett Public Relations Officer: K Andrew Chief Clerk D A. Duggan, BA Pret. Asst Registrar (Med) Mrs. E. C. Phillips Asst Registrar (Engn) J P Evert, BCom Asst. Registrar (Dent) V. D. Woods, DipNativeAffairs

LIBRARY Dep. Librarian I Isaacson, BA, FSALA Asst. Librarians Mavis E. G Anderson, BA Brist, DupLib Lond, FLA, Moira E Farmer, BA LibDipl Cape T, FSALA, Betty J Lunn, BA, FSALA, Mary B. Lucas, BA, FSALA.

CONSTITUENT INSTITUTIONS

BERNARD PRICE INSTITUTE OF GEOPHYSICAL RESEARCH, Milner Park, Johannesburg (tel. 835-1578) Founded 1936 Dir—Prof A L Hales, MA Camb, MSc PhD Cape T. The inst is situated on the univ campus and is governed by a bd apptd by the univ council. Apart from its own activities, the inst provides teaching for engin students as well as trg and res facilities for advanced students.

BERNARD PRICE INSTITUTE FOR PALAEONTOLOGICAL RESEARCH, Milner Park, Johannesburg (tel. 835-8181) Founded 1949 Dir—S H.

Haughton, BA Camb, DSc Hon. LLD Cape T, FGS, FRSSAf The inst is accomm in the univ and is governed by a bd apptd by the univ council. Library, museum and res facilities are available for the use of students and visiting res. workers

ERNEST OPPENHEIMER INSTITUTE OF PORTUGUESE STUDIES is housed in the univ library and administered by the univ. Visiting profs are brought to the univ by the inst which also provides a lectr in Portuguese lang, library facilities and study grants.

ASSOCIATED INSTITUTIONS

GOVERNMENT ARCHAEOLOGICAL SURVEY, Milner Park, Johannesburg (tel. 835-1378). Dir — B. D. Malan, BA.

GOVERNMENT METALLURGICAL LABORATORY, Milner Park, Johannesburg (tel. 835-1181) Actg Dir.—J. Levin, BSc(Eng)

NATIONAL INSTITUTE FOR TELECOMMUNICATIONS RESEARCH, Milner Park, Johannesburg (tel. 835-5255). Dir.—F J Hewitt, MSc PhD

NATIONAL INSTITUTE FOR PERSONNEL RESEARCH,

P O Box 10319, Johannesburg (tel. 835-2466) Dir —S Biesheuvel, MBE, MA PhD.

RESEARCH UNITS. The univ, jointly with the C.S.I.R., participates in the following res. units: dental, nutrition, cardio-pulmonary. Res units in nuclear phys and in econ geol. are subvented from outside sources

SOUTH AFRICAN INSTITUTE FOR MEDICAL RESEARCH, Hospital St, Hillbrow, Johannesburg (tel. 44-1444) Establd 1912 Dir—J H S Gear, DipBact Lond, BSc MB BCh DPH DTM&H

GENERAL INFORMATION

The Univ. of the Witwatersrand, Johannesburg, has developed out of the South African Sch. of Mines (1896), the Transvaal Technical Inst. and the Transvaal Univ. Coll. (1906), the South African Sch. of Mines and Technol (1910), and the Univ. Coll, Johannesburg (1920) In 1921 Univ. Coll, Johannesburg, was incorporated as the Univ of the Witwatersrand, Johannesburg, with effect from March 1, 1922 This devel. was made possible partly by support from the public, amounting in all, up to the end of 1922, to over R440,000 The municipality provided a fine site (80 acres) at Milner Park, a mile from the centre of the town Expenditure on bldgs. totals R5,809,504. The med sch is a separate bldg. in Hospital Hill on a site donated by the govt.

CONSTITUTION. The main authorities are the

council, in which the govt. and executive authority of the univ is vested, the senate, which superintends and controls the discipline and instruct of the several depts., exams, award of degrees, etc.; and the bds. of facs, which are cttees of the senate

INCOME (1960) R2,708,214 (fees, 30 per cent., govt. grant, 60 per cent., other grants, interest on investments, etc., 10 per cent.)

FACULTIES AND DEANS. *Archit.*, Prof. J. Fassler; *arts*, Prof O J M Wagner (sociol), *comm.*, Prof. C S. Richards (comm & appl econ), *dent.*, Prof. J. Staz, *engin.*, Prof. R. A. L. Black (mining engn.); *law*, Prof H R. Hahlo, *med*, Prof E H. Cluver, *sci.*, Prof. S. P. Jackson (geog.).

LIBRARIES Main library, 307,000 vols, 4150 current periodicals; Witwatersrand med. library, serving the med. sch., and the profession, several dept. libraries and museums

RESEARCH STATIONS Univ field res. stn. situated on the farm Flankewald, which is owned by the univ., mainly bot. res. Marine biol. res. stn. situated on Inhaca Island, Mozambique, which is owned by the govt. of Portuguese E. Africa. **UGANDA GORILLA RES. UNIT** at Kisoro

TEACHING HOSPITALS Med. main teaching hosp.—the Johannesburg H., which includes the General H., Non-European H., Queen Victoria Maternity H., Transvaal Memorial H. for Children; associated teaching hosp.—Baragwanath H., Coronation H., Tara H., Bridgman Memorial H., St. John Ophthalmic H. **Dent.** Univ. Oral & Dental H.

ADMISSION. See p. 1332

FIRST DEGREES BA, BSc, BCom, BMus, 3 yrs pass (4th yr. for hon.), BA hon. may be taken in langs, philos. scis., classics or soc. scis., BSc hon. in chem., phys. or theoret. phys. BA Logopedics, BAFineArts, BASocWork, BAPubAdmin, BScPhysiotherapy, BSc(Eng), 4 yrs, BSc hon. may be taken by 1 yr.'s further study after BSc in anat., appl. maths, bot., geog., geol., maths, psychol., zool.; BSc(QS), 5 yrs; BDS, 5½ yrs, MB BCh, BArch, 6 yrs.

HIGHER DEGREES (open to grads. of other univs). BED (1 yr. full-time, 2 yrs. pt.-time course), exam. and dissertation, LLB, 3 yrs., MMed(Path), 4 yrs. Thesis MA, MSc, 1 yr. after hon., MArch, MEd, MSc(Eng), LL.M., MD, MCom (exam. and thesis). Thesis, with yrs. from 1st degree ChM, DDS (thesis), 3 yrs., PhD, 4 yrs. (not in med., law, or dent.), DArch, DSc(Econ), LL.D. (thesis), 7 yrs. Original pub. work DLitt, DSc, DSc(Eng), 4 yrs. after 1st degree

HONORARY DEGREES DLitt, DSc, DSc(Eng), MD, LL.D. may be conferred as honorary or as 'earned' degrees.

DIPLOMAS Librarianship, educn. of the deaf, 2 yrs., logopedics, 3 yrs., native affairs, 2 yrs. pt.-time, anesth., child health, pub. health, indust. health, 1 yr., psychol. med., 2 yrs., radiol. diag., radiotherap., 3 yrs., trop. med. & hyg., 6 mos.; nursing, 1½ yrs., occupnl. therapy, 3½ yrs.; physiotherap. educn., 1½ yrs.; econ. of local govt. & admin., 2 yrs. pt.-time; cert. in theory of accty., 4 yrs. pt.-time, law, law (public service), 3 yrs.; higher dipl. in dent., 1 yr., pub. dent., 1 yr., orthodontics, 2 yrs. (full-time) or 3 yrs. (pt.-time), maxillo-facial surg., 2 yrs., quant. surv., 5 yrs., town planning, 3 yrs. pt.-time.

RESEARCH All depts. have facilities for post-grad. res., over-all supervision being exercised by the univ. res. cttee. In addn. the univ. administers res. grants made to members of staff by

govt.-controlled bodies, chiefly the S.A. Council for Scientific and Indust. Res. and the Natl. Council for Soc. Res., from funds voted by parliament for the purpose. See also 'Constituent Institutions' and 'Assoc. Institutions' (p. 1388) and 'Research Stations' above

STUDY LEAVE 4 mos.' leave of absence during an academic term may be granted by the council to an officer who has completed 6 yrs' continuous service. Salary arrangements are: 2 mos. full pay, 2 mos. half pay, after 6 yrs' service, 3 mos. full pay, 1 mo. half pay, if taken after 7 yrs' service, 4 mos. full pay, if taken after 8 yrs' service. Sp. leave without salary may be granted by the council for certain purposes, e.g. overseas study

FEEs BA, R530, BMus, R600, BASocWork, BALogopedics, BAFineArts, BAPubAdmin, R760, BA hon., BSc hon., BCom hon., R150 for 1st yr. and R100 for every yr. or portion of yr. thereafter, BSc, R660, MB BCh, R1320, BSc Physiotherapy, R760, DipOccTherapy, R496, BSc(Eng), R880, BCom, R530, cert. in theory of accty., R340; LLB, R420, BArch, R1104; BSc(QS), R840, DipQS, R840, BDS, R1210.

ACADEMIC YEAR. Feb. to Nov., 2 terms totaling about 28 wks.

LANGUAGE OF INSTRUCTION. English.

'OPEN' AWARDS FOR FIRST DEGREE COURSES. Numerous state and municipal bursaries.

'OPEN' SCHOLARSHIPS FOR GRADUATES. Ainsworth (mod. hist.), R300 p.a. for 1 yr., G. A. Denny (soc. scis.), R500 p.a. for 2 yrs., Mellor (biochem. & biophys.), R600 p.a. for 1 yr. in first instance.

GRADUATES' ASSOCIATIONS. Convocation (all grads.), mining engin. graduates' assocn.; med. graduates' assocn.

STUDENT RESIDENCES College House and Dalrymple House, Milner Park (tel. 34-4419); accomm. 150 men, fee R320 p.a. Univ. Residence, Cottesloe, Auckland Park (tel. 31-2836), 350 men, R320 p.a. Isabel Dalrymple House, Milner Park (tel. 835-7830), 150 women, R320 p.a. Douglas Smut House, Milner Park (tel. 835-7698), 30 African med. students, R230 p.a.

STUDENT HEALTH SERVICES. A students' health insurance soc. exists for all students taking a 1st degree (except MB BCh).

STUDENTS' REPRESENTATIVE COUNCIL. The functions, powers and privileges of the S.R.C. are prescribed in rules made by the council.

PUBLICATIONS. *Calendar* (annual), 50 cents; *Gazette* (twice a year), free; *African Studies* (quarterly), R3 p.a.; *S.A. Journal of Medical Sci.* (quarterly), R2.10 p.a.; *Palaeontologia Africana* (annuals of the Palaeontological Res. Inst.); *English Studies in Africa* (twice a year), R1 p.a.

WITWATERSRAND UNIVERSITY PRESS. Under control of a publcons. cttee., the press publishes work of staff and sr students and three journals, *African Studies*, *S A Journal of Medical Scis* and

English Studies in Africa (see above). The prof of Bantu langs supervises the first journal and the publishing of books in and on African langs. All printing is done by commercial firms.

THE YEAR 1960

PRINCIPAL BENEFACTORS. Transvaal & O F S Chamber of Mines, R20,000 for postgrad. res in mining engin.

MAJOR BUILDING DEVELOPMENTS. New bldg for geol & mining engin., extensions to labs. for mech. engin.; Jan Smuts House for Inst of Internatnl Relns.

RISIGNATIONS Prof N. P. Badenhuizen (bot.)

HONORARY DEGREES. *LLD*—Hon H A Fagan, retired chief justice, Sir John Maud, U.K. high commissioner.

Statistics

STUDENT NUMBERS, 1961
(as at the beginning of the academic year)

	Full-Time	Part-Time*
Men . . .	4284	85
Women . .	1227	64
Total . . .	5511	149

Distribution by Faculties *Archit*, 226, *arts*, 1343, *comm.*, 1107, *dent*, 202, *engin*, 993, *law*, 168; *med*, 895; *sci.* 726 Total: 5660.

Included in the figures above are:—

Postgraduate students, 692

New admissions, 2035.

Students from other countries, 195 (Country from which largest number came, Fed of Rhodesia & Nyasaland, 119)

DEGREES AWARDED (1960) *Archit* BArch, 18; BSc(QS), 6. *Arts* BA, 152; BAFincArts, 8; BALogopedics, 13, BASocWork, 4, BMus, 1, BA(hons.), 27; BMus (hons.), 1, MA, 4, BEd, 6, PhD, 4. *Comm.* MCom, 1, BCom, 43. *Dent* BDS, 26, MDS, 1. *Engin* BSc (Eng), 122, MSc(Eng), 10, PhD, 4. *Law* LLB, 18. *Med* MB BCh, 84, BScPhysiotherapy, 13, MD, 1. *Sci* BSc, 47, BSc (hons), 30, MSc, 8, PhD, 4.

DIPLOMAS AND CERTIFICATES AWARDED (1960)

Postgrad: anesth, 2, med, 2, surg., 2, obstet & gynæcol, 2, psychol med, 4, indust. health, 1, radiotherapy, 1; *dent* (higher), 1; orthodontics, 1, town planning, 1. *Other*: law, 17, physiotherapy educn., 2; archit., 5; quantity surveying, 7; cert. in theory of acctg, 48.

* Part-time students are 'occasional students', extra-mural students being included in numbers for full-time students, + e those following a full-degree curriculum.

APPENDIX III

UNIVERSITY ADMISSION

QUALIFICATIONS FOR ENTRY TO FIRST DEGREE COURSES:

(A) <i>Australia</i>	.	p. 1391
(B) <i>Canada</i>	.	p. 1401
(C) <i>United Kingdom</i>	.	p. 1423

(A) AUSTRALIA

[The statement which follows relates only to the admission of students proposing to take full courses leading to a first degree. For information regarding admission to courses leading to higher degrees, see the entries for the several univs., above.]

GENERAL NOTE

The primary and secondary educational systems of the Australian states are the responsibility of the various state govts. Consequently they differ in many respects. However, they are all alike in that they prepare students to the standard necessary for matric. at the univ. or univs. establd. in their home state. In all cases there is some liaison between the state educational system and the univs. in that state to ensure that candidates coming forward to the univs. will be able to comply with the matric. requirements.

In Australia, each univ. controls its own admission requirements. Thus the Univs. of Adelaide, Melbourne, Monash, New England, New South Wales, Queensland, Sydney, Tasmania and Western Australia, and the Australian National Univ., have individual matric. requirements which are specified below.

The Australian National Univ. comprises 2 sections, namely the inst. of advanced studies and the sch. of general studies. The inst. is concerned with postgrad. res. and study and does not conduct courses leading to a first degree. The minimum academic requirement for admission as a student studying for a doctor's degree is a first degree with honrs. from a recognized univ., but the inst. needs to be satisfied as to the student's

capacity for res. The sch. of general studies (formed from the former Canberra Univ. Coll.) is responsible for courses leading to the degrees of bachelor or master. For 1961 and 1962 a person qualified to be admitted to any Australian univ. will be granted matric. status in the sch.

The admission requirements of the Australian univs. have the same purpose, being designed to ascertain whether candidates are educationally fitted to undertake courses leading to a first degree. This may be done either at a public exam. open generally to secondary sch. students or at a sp. matric. exam. conducted by the univ. In some cases passes are required in sp. subjs. for entrance to the different facs., in addn. to the requirements for matric.

Although the requirements for entrance to the various univs. are not uniform, all possible reciprocity is exercised in the interchange of students, whether from Australian or British univs. In general the univs. will admit to matric. *ad eundem statum* a student who has matriculated or qualified to matric. at another univ. of recog. standing, but in some cases passes in particular subjs. at matric. standard, or in compulsory 'pre-requisite' subjs. for particular courses, may be required.

Sp facilities are offered for matric in some univs to persons of mature age who have not had the opportunity of qualifying in the ordinary way and who pass certain sp entrance tests

The table below shows the public exams in each state recog by the univs for matric pur-

poses, except as indicated by an asterisk. The exams. are fully recog only by the univ conducting them, though, as mentioned above, qualification by a student for matric at the univ of his home state is generally recog, in so far as standard is concerned, by the other Australian univs

PUBLIC EXAMINATIONS IN AUSTRALIA

<i>State</i>	<i>Examination</i>	<i>Secondary School Year in which Examination normally taken</i>	<i>Conducting Body</i>
New South Wales and Australian Capital Territory	*Intermediate Cert Leaving Cert Matric §||Qualifying §||Qualifying (Deferred)	3rd yr 5th yr 5th yr	N S W Dept of Educn N.S.W Dept of Educn Univ. of Sydney N S W Dept of Tech Educn N S W Dept of Tech Educn
Queensland	*Junior Public Senior Public Matric	2nd yr 4th yr.	Queensland Dept of Educn Univ of Queensland Univ of Queensland
South Australia	*Intermediate Leaving Leaving Hons	3rd yr 4th yr 5th yr	Univ. of Adelaide Univ of Adelaide Univ of Adelaide
Tasmania	*Schools Board Cert Matric	4th yr 5th yr	Schools Bd of Tasmania Univ of Tasmania
Victoria	*Intermediate School Leaving Matric.	4th yr. 5th yr 6th yr	Univ of Melbourne Univ of Melbourne Univ. of Melbourne
Western Australia	Junior Cert Leaving Cert Matric.	3rd yr. 5th yr. 5th yr	Univ of Western Australia Univ of Western Australia Univ of Western Australia

§ Recognized by the Univ of Sydney only under certain conditions

|| Not recognized by the Univ. of New England

Note—The age of transfer from primary to secondary sch varies from state to state, ranging from 12 yrs in Victoria to 14 yrs in Queensland

The average age of entrance upon univ study is 17 plus in most states, 18 plus in Queensland

Exams are also conducted in music in each state under the general auspices of the Australian Music Exams Bd Passes in appropriate grades at these exams are accepted as passes at leaving

cert. standard and, consequently, for matric purposes, in most states In Victoria, however, the exams are recog for purposes of inter and leaving cert. exams but the Univ of Melbourne conducts its own exams in matric music.

SPECIFIC CONDITIONS

ADELAIDE

The minimum age for matric is 16 yrs

South Australian Candidates

In general the requirements for matric in the Univ of Adelaide are 5 subs. taken at the leaving exam held annually in Nov-Dec and chosen from the following groups with certain subs specified for the various facs. as follows .

Group A Engl

Group B. (i) Latin, Greek, French, German, and such other langs. as may be approved for matric purposes by the council on the recommendn of the matric bd ;
(ii) anc. hist., mod hist , econ hist., econ , geog., music.

Group C. (i) maths pt. I, maths pt II ;

- (ii) phys., chem., geol., bot.,
physiol., agric sci.
Group D. Arith., drawing, book-keeping

(a) To fulfil the educul requirements for matric a candidate must:

- (i) pass in at least 5 subsy from groups A, B, C and D, above, incl at least one suby from each of groups B and C, *provided that if either maths pt I or maths pt II is counted, arith cannot be counted*,
- (ii) include in his 5 subsy at least one subject from section (i) of either group B or group C,
- (iii) *either* pass in Engl lit. as one of the 5 subsy, *or* satisfy the examiners of his ability to use the lang as an instrument of expression

The qualif in Engl obtained by a candidate who has satisfied the examiners of his ability to use the lang as an instrument of expression shall not count as a subject

(b) The attention of intending candidates is drawn to the fact that, although such requirements do not form part of the general requirements for matric, in some 1st-yr subsy at the univ either a pass in the corresp subject at matric standard is prescribed for admission to the class or a knowledge of the subject at matric standard is assumed

Attention is drawn to the following.

(a) *Lang other than Engl*. At least one course in Greek, Latin, French or German is compulsory for the ord BA degree. No candidate may take the course in Greek I, Latin I, French I or German I until he has passed in the corresp subject at the leaving exam. or at an exam accepted by the univ as equivalent.

(b) *Maths*. Courses in maths. are compulsory subjects in the engin course; further, a 1st-yr course in maths will for many candidates be an essential or desirable suby. in certain other courses (e.g. sci.) No candidate may be admitted to a 1st-yr class in either until he has passed *either* in leaving maths pts I and II *or* in an exam accepted by the univ. as equivalent.

(c) *Phys and Chem*. Although a pass at leaving standard is not a prerequisite for admission to the classes in 1st-yr. phys. and chem., the syllabuses in these subsy presuppose a knowledge of phys and chem at leaving standard

(d) *Music*. Harmony II is a compulsory subject in the 1st yr of the course for the MusBac degree, and no candidate will be admitted to the class in that suby until he has *either* passed in the theory of music at the 7th grade of the public exams in music *or* in a sp entrance exam. in the theory of music of equivalent standard

(e) *Law*. A pass in Latin at leaving standard is a prerequisite for entry to the class in Roman law, an optional suby in the LLB degree course.

(f) *Building Sci.* The syllabus in this suby presupposes a knowledge of chemistry at leaving standard.

Candidates from other Australian States

Matric in any other Australian univ is accepted provided that the suby and grouping requirements, as prescribed for S Australian students, are met. A candidate whose qualifs for matric in the univ of his own state do not incl one or more of the subsy specified by Adel is required to pass in only the outstanding suby or subsy.

Overseas Candidates

(a) *United Kingdom, Canada, Ceylon, New Zealand and South Africa*. Qualifs which entitle the holder to matric in the corresp fac in any recog univ. of any of the Commonwealth countries listed above are accepted, provided that the suby and grouping requirements, as prescribed for S Australian candidates, are met. The English GCE is accepted on a basis similar to that required by English univs, provided that certain subsy (other than Engl) specified at leaving standard by Adel have been passed at the advanced level

(b) *Other parts of the British Commonwealth*. The requirements for candidates from other parts of the Commonwealth, esp from southern and eastern Asian countries, in general conform to those of UK univs., so far as standard is concerned, and incl the specially prescribed subsy required by Adel. of its local candidates

Candidates from India and Pakistan are required to have passed at a good standard in their own univ's inter exam in arts or sci. and to have incl in that exam Engl and such other suby or subsy as may be prescribed for S Australian candidates

(c) *Other overseas students*. A candidate may be admitted to matric. who (i) holds a cert. which qualifies him for matric in a recog. European or United States univ, provided that the subjects specified in the Adel requirements are included and provided also that the cert contains at least one mod lang and lit.; (ii) in the case of a candidate whose native lang. is not Engl., has passed in a standard Engl test; and (iii) has passed in the prescribed fac prerequisites as follows:

Sci and engin (and for admission to the class in maths I). Either maths. I and II at the S Australian leaving exam or (in approved cases only) a sp. exam in maths of equivalent standard

A candidate who is unable to present acceptable evidence of matric work done elsewhere must pass in appropriate subjects at the S Australian leaving exam.

Mature Age

No provision is made for modification on account of age of the normal requirements for matric

Special Cases

The matric. bd. may consider applcns. from candidates who have qualifs. in secondary educn.

but have not satisfied the normal requirements for matric. The bd usually does not exempt such a candidate from the specified entrance requirements, but it may admit him for 1 yr under conditions which it specifies and which must be fulfilled within 1 yr

Last Date for Receipt of Applications

The last day of enrolment for local candidates is the 7th Monday in the yr. Late enrolments may be accepted on payment of a late-enrolment fee. The last day of appln for admission by overseas candidates is Sept. 1 of the preceding yr. In facs in which there are quotas this date is rigidly applied.

AUSTRALIAN NATIONAL UNIVERSITY

School of General Studies

Special Requirements for Admission

There is no min. age for admission to the sch. of general studies. There are no sp. fac. requirements.

Candidates from N.S.W. and the A.C.T.

A person is eligible to be admitted to matric. if he has, at the one exam., passed the N.S.W. Leaving Cert. exam. in Engl., a branch of maths. or a foreign lang.; and 3 other approved subs. For 1961 and 1962 a person who satisfies the admission requirements of the Univ. of Sydney or the Univ. of N.S.W. or the Univ. of New England, but who does not satisfy the preceding requirement, may also be admitted.

Candidates from other Australian States

A person qualified to matriculate in another Australian univ. will be admitted to matric. status.

Overseas Students

The matric. qualifs. of certain overseas instns. are accepted as grounds for admitting students to matric. status. However, a person whose native lang. is other than Engl. may be required to show that he has an adequate knowledge of the Engl. lang. by passing a standard Engl. test while still resident in the overseas country.

Provisional Matriculation

A person who is at least 25 by Dec. 31 in the yr. preceding that in which he proposes to enrol may be admitted to provisional matric. providing he can satisfy the matric. cttee. that he has a reasonable prospect of success in the course for which he proposes to enrol. A person so admitted will be fully matriculated and permitted to sign the matric. roll after having (i) as a full-time student passed in 2 units by the end of the 1st yr., (ii) as a pt-time student passed in 2 units by the end of the 2nd yr. A person who fails to satisfy this requirement will have his provisional matric. cancelled and will not be eligible for readmission.

Last Date for Receipt of Applications

Applicns. for admission will usually be received up to the 2nd Tuesday in Feb. of the yr. in which admission is sought but overseas students are strongly advised to seek admission at least 3 mos. before this date.

MELBOURNE

General Requirements

In order to become qualified to matric. candidates must (a) obtain the Melbourne-Sch. Leaving Cert. and be credited therein with 5 subs. incl. (i) Engl., (ii) a branch of maths. or sci., (iii) one other subj. chosen from langs. other than Engl., Greek and Roman hist., mod. hist., British hist., econ., soc. studies, (b) pass the matric. exam. by passing or obtaining honrs. in 4 subs., incl. Engl. expression, (c) attain the age of 17 yrs. by March 31 in the yr. concerned.

Special Faculty Requirements

In addition to qualifying to matric., for the following facs the prerequisites set out below must have been passed at a standard equivalent to that of the Melb. matric. exam.

Arts A lang. other than Engl.

Med. Chem. and either phys. or a branch of maths. It is necessary to pass the Melb. matric. exam. incl. the prerequisites at not more than 2 attempts.

Agric. sci. Either phys. or chem.

Dent. sci. Chem. and either phys. or a branch of maths.

Music Music (theoretical) and music (practical).

For admission to most facs. it is necessary to be selected primarily on the basis of academic merit at the Melb. matric. exam.

Overseas Students

The matric. qualifs. of the following instns. are accepted as grounds for admitting overseas students to matric. status without further requirements (although they may have to make up the fac. prerequisites at the Melb. matric. exam.):

Canada Sr. matric.

Ceylon. Matric. of the Univ. of Ceylon.

Egypt. Secondary Educn. Cert. pt. II (sp. course) of the Egyptian Ministry of Educn.

Continent of Europe. Cert. of maturity or equivalent cert. qualifying student to enter a continental univ.

Republic of Ireland. Matric. of Trinity Coll., Dub., or N.U.I.

United Kingdom. Matric. of any English or Scottish univ., or Univ. of Wales, or Queen's Univ., Belfast.

Greece. Matric. of Univs. of Athens and Salonika.

Holland. (i) Leaving cert. from 'gymnasium' after 6-yr. course. (ii) Dipl. of H.B.S. (iii) Cert. of completion of 6-yr. course at 'lyceum'.

Hong Kong Matric of Univ of Hong Kong.
India Pass in the 1st division of inter. sci or arts exam—prerequisites, if involved, to be at inter standard.

Israel Qualif to enter either Hebrew Univ., Jerusalem or Hebrew Tech. Inst., Haifa.

Malaya Univ. of Malaya matric

Pakistan Pass in the 1st division of inter exam. in sci. or arts—prerequisites, if involved, to be at inter standard

South Africa Matric of Jt Matric Bd of Univs of S.A.

Syria Matric of American Univ. of Beirut
Thailand Completion of 1st yr in Univ of Chulalongkorn

U.S.A. Qualif to enter a univ accredited with the Assoc. of American Univs

Other Australian Institutions

Persons qualified to matric in another Australian univ will be admitted to matric status, but will be required to satisfy sp fac requirements either at the Melb matric exam or at an equivalent standard

Provision is made for the recog. of qualifs. gained at certain Australian service establs., and at certain Victorian tech colls

University Entrance for Adults

Sp provision is made for persons who are at least 20 yrs of age and have left sch 4 full yrs. These provisions apply to local students only

Last Date for Receipt of Applications

All applns. for admission, including applns for admission *ad eundem statum*, must be lodged before Nov 30 in the preceding yr.

MONASH

In order to matric, students must (a) be 17 yrs of age by March 31 in the yr of entry, (b) have passed the Victoria Sch. Leaving exam in 5 subs incl (i) Engl, (ii) a branch of maths or sci and (iii) a lang or one of the following—Greek & Roman hist, mod hist, British hist, econ., soc studies, and (c) passed the matric exam of Melbourne Univ in 4 subs incl Engl expression

There are no special fac prerequisites, though for students in some depts a knowledge to matric level of subs. taught in those depts. is assumed

The univ. may admit to matric those who have qualified for matric elsewhere. Each appln is considered on its merits.

NEW ENGLAND

Ordinary Matriculation

1. All candidates for ordinary matric. shall be required to pass at the N.S.W. Leaving Cert.

* Maths I or maths II may be counted as a matric subj only if the candidate presented himself for exam in both maths I and maths II.

‡ Candidates who have not met requirements under (a) or (b) but who have meritorious passes may be considered for sp matric.

exam 01 at the matric exam of the Univ. of Sydney in approved subs grouped as below.

Group A Engl.

Group B (i) Latin, Greek, French, German, Italian, Hebrew, Chinese, Japanese, Russian, Dutch.

(ii) Geog., econ., anc. hist., mod hist.

Group C (i) *Maths. I, maths II, maths III, gen. maths

(ii) Agric, appl maths., biol, bot, chem., geol., phys., phys-and-chem., physiol., zool.

Group D. Music, theory & practice of music.

2 To qualify for matric a candidate shall either pass

(a) in at least 5 approved subs of which one shall be Engl., one shall be chosen from each of the groups B and C, and of these 2 subs, one shall be chosen from section (i) of either group B or C, or

(b) in at least 5 approved subs of which one shall be Engl. and one shall be chosen from section (i) of either group B or C provided that the passes include one with hons. and 2 'A' passes, 01 2 with hons.‡

3. The following combinations of subs are not approved phys or chem. with phys.-and-chem., bot. or zool. with biol, zool or biol. with physiol., maths I or maths II with gen maths.; maths I or maths II with maths III, maths III with gen maths.; music with theory & practice of music

4. All subs must be passed at one exam except that a candidate for ordinary matric. who presents himself for the Leaving Cert exam. in 1960, or in a subsequent yr. in 5 or 6 subs. chosen in accordance with the requirements of regns. 1, 2 and 3 and who passes in any 4 of these subs shall be granted ordinary matric. status if:

(a) he is awarded passes classified as 'A' standard or passes with hons. in at least 2 of these 4 subs, and

(b) he passes at the matric exam of the Univ. of Sydney in the following yr. in at least one addtl subj in which he had presented himself at the preceding Leaving Cert. exam, and

(c) the 5 passes thus obtained satisfy the requirements of regns 1, 2 and 3.

5. These regns shall not affect the right any person had under any matric. regns. in force before July 1, 1960.

Special Matriculation

Sp matric. may be granted to persons who, while not meeting in full the ord. requirements of this univ, possess exam. qualifs. considered to

be of equivalent status. Such persons shall incl the following

- (a) Any person who has completed the 1st yr of a course at the Royal Military Coll of Australia or the Royal Australian Air Force Coll.
- (b) Any person who has completed satisfactorily the passing-out exam of the Royal Australian Naval Coll
- (c) Diplomates of the Hawkesbury or Wagga Agric Colls who have obtained honours or persons with similar qualifs which are deemed by the professorial bd to be equivalent
- (d) A person who has completed stage II of a course in accountancy, aeronautical engin, appl biol, appl chem, archit, bldg, chem. engin, civil engin, electr engin, food technol, leather chem., management, mech engin, metallurgy, metalliferous mining engin, minerals technol, naval archit., optometry, phys., production engin, pub admin, quantity surveying, radio engin or manual arts leading to award of associateship of Sydney Tech Coll (ASTC). (Note—A person who has successfully completed stage I may apply for consideration for a grant of spec. matric status)
- (e) Persons with war service, having educul qualifs approved by the bd of studies
- (f) A person who is qualified to matric. in one of the following univs.: Adelaide, Australian National, Melbourne, Monash, Queensland, Tasmania, Western Australia, or a univ in the U.K. or N.Z., who at the time of qualifying was not normally resident in N.S.W.
- (g) Persons of foreign nationality and educn who are deemed by the professorial bd to be capable of undertaking a degree course at this univ. with reasonable prospects of success.
- (h) A grad of any univ.

Provisional Matriculation

The professorial bd may grant provisional matric. to a person, of not less than 21 yrs of age on March 1 of the yr. in which he intends to enrol, who

- (a) satisfies the professorial bd that he has reasonable prospects of success at the univ., or
 - (b) passes such exams. as the bd. may prescribe.
- A person granted provisional matric. shall be granted sp matric when he has fulfilled the following requirements

- (a) if a full-time student, to pass 2 courses by the end of the 1st academic yr. (incl. deferred and sp. exams where granted) in which he is eligible to enrol after the granting of his provisional status;
- (b) if a pt-time student, to pass 2 courses by the end of the 2nd academic yr (incl. de-

ferred and sp exams. where granted) in which he is eligible to enrol after the granting of his provisional status.

A person granted sp matric in this way may count the courses passed as a provisionally matriculated student for degree purposes provided such courses otherwise satisfy the requirements of the fac in which he is enrolled

A person who has not fulfilled these requirements and who fails to satisfy the professorial bd that there are sp. reasons for extending the period of his provisional matric status shall have that status withdrawn and may not count for degree purposes any course passed during that period of provisional matric.

NEW SOUTH WALES

There is no minimum age limit for admission to the univ

In order to be admitted to undergrad. studies candidates must matriculate either at the Leaving Cert. exam. held by the N.S.W. Dept of Educn, the Univ of Sydney's Matric exam or the Qualifying or Qualifying (Deferred) exam of the N.S.W. Dept of Tech Educn

The univ's new matric requirements, which took effect from Jan 1, 1961, are intended to indicate individual general ability and standard of educn, rather than specialized interest. Concurrently, until March 1964, candidates may gain entrance under the 1960 requirements (see *Commonwealth Universities Yearbook, 1961*)

Matriculation Requirements

Approved matric subjs are grouped as follows

- A Engl
- B Latin, Greek, French, German, Italian, Hebrew, Chinese, Japanese, Russian, Dutch, geog., anc hist, mod hist, econ.
- C Maths I, maths II, maths III
- D Agric, appl maths., biol., bot., chem., phys, geol., phys & chem, physiol, zool, gen maths.
- E Accountancy, art, descriptive geom. & drawing, music, theory & practice of music.

At the one exam candidates must pass in at least 5 subjs provided that:

- either (a) the 5 subjs include Engl and at least 1 subj from each of groups B and C, but do not include more than 1 subj from group E, except that candidates may qualify for admission to the fac of arts only, by passing in 1 subj from group D in lieu of the subj from group C,
- or (b) the 5 subjs include Engl, and at least 1 subj. from either group B or group C, but do not include more than 1 subj from group E, and provided further that the 5 passes

include either 1st class hon. and 2
As or 2 hon. of which 1 is 1st class,

and further provided that:

- (a) neither phys. nor chem. is offered with the combined subj. phys. & chem.,
- (b) neither bot. nor zool. is offered with biol.,
- (c) neither bot. nor zool. nor biol. is offered with physiol.,
- (d) neither maths. I nor maths. II nor maths. III is offered with gen. maths.,
- (e) neither maths. I nor maths. II is offered with maths. III,
- (f) maths. I or maths. II may be counted as an approved subj. only if the candidate presented himself for exam. in both maths. I and maths. II,
- (g) theory & practice of music is accepted only in cases where the pass was obtained at an exam. in 1946 or subsequent yrs.,
- (h) anc. hist. is accepted only in cases where the pass was obtained at an exam. held in 1945 or subsequent yrs., and further both mod. hist. and anc. hist. may be offered as qualifying subjs. at the exams held at the end of 1951 and subsequent yrs.,
- (i) agric. is accepted only in cases where the pass was obtained at an exam. held in 1945 or subsequent yrs.,
- (j) econ. is accepted only in cases where the pass was obtained at an exam. held in 1947 or subsequent yrs.,
- (k) descriptive geom. & drawing is accepted only in cases where the pass was obtained at an exam. held in 1954 or subsequent yrs.

Accreditation

In certain circumstances persons may qualify as matriculated students if they are diplomates of the N.S.W. Dept. of Tech. Educn. or of other recognized tech. colls., grads. of approved univs. or certificated students who have gained matric. at univs. that demand entrance qualifs. comparable with those needed to enter the Univ. of New South Wales. Candidates may also be accredited if they have completed the 1st yr. of the course at the Royal Military Coll. of Australia or the Royal Australian Air Force Coll. or if they have completed the passing out exam. of the Royal Australian Naval Coll.

Provisional Matriculation

In sp. cases persons educated in other countries may be granted the status of 'provisionally matriculated student' until they gain full status by completing univ. requirements. Adults who are over 25 yrs. of age may also be granted this status if they have been educated to a suitable standard. However, any applicant for provisional status may be asked to appear for exam.

Last Date for Receipt of Applications

Candidates from New South Wales must lodge applns. for admission by Jan. 31 of the yr. in

which admission is sought. Overseas and interstate students should apply by Dec. 31 in the preceding yr.

QUEENSLAND

General Requirements

The min. age for admission of matriculated or non-matriculated students is 16 yrs. For the dipl. in physiotherapy course, a candidate must have attained the age of 17 yrs. on or before June 30 of the year in which he enters the course.

A candidate for matric. in any fac. must pass exams. in the subjs. specified for that fac. at the Jr. Public exam. or the Sr. Public exam., as prescribed. The subjs. may be passed at the Sr. or Jr. Public exams. held annually in Nov.-Dec. or at the matric exam. held annually in Feb. At the matric exam., subjs. may be taken at sr. or jr. standard. Passes in required subjs. obtained at other exams., held within or outside Queensland, will be accepted if, in the opinion of the dean of the fac. concerned, they are equivalent to passes at the required standard.

A candidate may pass the subjs. prescribed for any fac. at more than 1 sitting, but he must at 1 of the sittings pass at sr. standard in at least 4 subjs. whether or not prescribed for that fac. A sitting in Nov. and a sitting in the following Feb. will be classed as 2 sittings.

If a candidate satisfies the registrar of the univ. that he is not attending a secondary sch. and that (a) there is no secondary sch. near enough to his home for him to be reasonably expected to attend it as a day pupil, or (b) he is in full-time employment, or (c) he suffers from physical disability preventing attendance as a day pupil at a secondary sch., he may pass the subjs. prescribed for any fac. at more than one sitting, but shall not be given credit for a pass in one prescribed subj. only at any sitting unless it is the last subj. to be passed by him and must obtain credit for 4 passes in prescribed subjs. within 3 successive academic yrs., and where 5 subjs. are prescribed for 5 such passes within 4 successive academic yrs.

If a candidate has qualified for matric. in another Australian univ. he may be admitted to such matric. in this univ.

A person who has matriculated in a fac. at a United Kingdom univ. and has completed 1 yr. of a degree course in that univ. is not required to pass any further exams. for a corresponding matric. in this univ. In any other case where a candidate for matric. has pursued a course at this or any other univ., the fac. concerned may exempt him from such of the exam. requirements for matric. in that fac. as it thinks fit.

The following subjs. are available for matric. purposes: Latin, Greek, Engl., French, German, music or art, maths. I, maths. II, chem., phys., bot., zool., Italian, mod. hist., anc. hist., logic, econ., geol., physiol., geog., bookkeeping & accounts, geometrical drawing & perspective, elementary surveying & astron.

Special Faculty Requirements

Arts. A candidate is required to pass at sr standard in at least 4 subs covering 4 of the following groups of subs: (a) Engl; (b) French, German, Greek, Latin; (c) maths I, maths II; (d) bot, chem, geol, phys, physiol, zool; (e) mod hist, anc hist, geog. The 4 subs must incl Engl and a subj from group (b), the other 2 subs being selected from any 2 of groups (c), (d) and (e).

Note.—The above requirements are min. requirements, and a student intending to pursue an arts course would benefit by taking more than 4 subs either to lead up to subs he intends to take at the univ., or to give him the advantage of a wider background of general knowledge.

Sci (incl pharmacy). A candidate is required to pass at sr standard in 4 subs incl Engl, maths I and a sci subj., and in so far as chem, phys. and a lang. other than Engl. are not incl in the 4 subs, must pass or have passed them at not less than jr standard.

A person desiring to pursue the course in indust chem must pass at sr standard in both chem and phys and otherwise fulfil the requirements set out above.

Engin. A candidate must pass at sr standard in Engl, maths I, maths II, phys and chem.

A lang. other than Engl must be passed at not less than jr standard.

Note.—The matric exam. for the fac of engin. is recog by the Engin Jt Exam Bd, London, as qualifying in lieu of their prelim. exam.

Surveying. A candidate must pass at sr standard in Engl., maths I, phys. and 2 other subs.

Comm. and econ. (i) A candidate must (i) pass at sr standard in Engl. and maths I, and (ii) either (a) pass at sr standard in 3 of the following subs: anc hist, bookkeeping, bot., chem, econ., French, geog., geol., German, Greek, Italian, Latin, maths II, mod. hist., phys., physiol., zool or (b) pass in all the subs required for the cert. in accty. or the dipl. in pub admin. or obtain, in 1956 or later, the dipl. of the Queensland Agric High Sch & Coll., Lawes.

(2) A candidate who has qualified for the dipl in comm may matric. in the fac. of comm and econ before the commencement of the academic yr 1964 if he has passed in maths I at sr standard, or in inter maths, or in the univ. subj statistics, but may not be a candidate for the degree of bachelor of econ unless he has passed in maths. I at sr standard.

Agric. A candidate is required to pass in 4 sr. subs, incl Engl., maths I and a sci. subj.

If chem., phys. and a lang. other than Engl be not passed at sr standard, these subs must be passed or have been passed at jr standard in addn to 4 sr subs.

A student of the Queensland Agric. High Sch. & Coll., Lawes, may matric. if he has been

awaited the pass dipl. of the coll. under the 3-yr. curriculum.

Students who have matriculated in the fac of agric are regarded as having also satisfied the requirements for matric in forestry.

Law. The requirements are the same as for the fac of arts. A barrister or solicitor of the supreme court of Queensland is exempt from these requirements.

Dent. A candidate shall pass in 4 subs, at sr standard incl Engl, maths I, and at least one of the 2 subs chem and phys. If chem and phys are not both passed at sr standard the one not passed at sr standard shall be passed at jr standard. Zool, although not compulsory for matric, is recommended as an extra subj.

Vet. sci. The matric requirements are the same as those for the fac of agric.

Med. A candidate is required to pass in 5 sr subs incl Engl, maths I, chem. and phys. German, French or Latin must be passed or have been passed at not less than jr standard.

A person who has qualified for the dipl in physiotherapy or the dipl. in occupational therapy may without fulfilling any further requirements be admitted to matric for the purpose only of qualifying for the degree of bachelor of physiotherapy.

Education. A candidate must either (i) fulfil the requirements for matric in the fac of arts or the fac of comm, or (ii) pass at sr standard in Engl and in 4 other subs selected from the following groups of subs and covering at least 2 of the groups: (a) mod hist, anc. hist, geog, econ, music, (b) Latin, Greek, French, German, Italian, (c) maths I, maths II; (d) chem, phys, bot, zool, physiol, geol. A person who has qualified for the dipl in soc studies may matric in the fac of educn without further exam.

Archit. A candidate is required to pass at sr standard in (a) Engl, maths I and phys. (b) 2 other subs. If the subs fulfilling the requirement of para. (b) do not incl art (pts. A and B) or geometrical drawing & perspective, a pass in pt. A of art will also be required. If the subs fulfilling the requirement of para. (b) do not incl chem, a pass in chem. at jr standard will also be required.

Adult Matriculation

A candidate who is normally resident in Australia and who has attained the age of 23 yrs. may be admitted to matric in the several facs on passing a sp exam. The candidate may, if he so chooses, matric under the ordinary regns. There is no provision for adult matric. in the fac of med.

Last Date for Receipt of Applications

Applicns for admission may be received up to Jan 31 of the yr in which admission is sought.

Applicns from overseas students should be made by Dec. 30 in the preceding yr.

SYDNEY

There is no min. age limit for admission to the univ., except that candidates for admission to the fac. of law must be 17 yrs. of age

Matriculation

Candidates for any of the degrees granted by the Univ. of Sydney will be required to matric before entering upon the prescribed course for the degree. Before being admitted to matric, candidates must have passed one of the exams required by the by-laws for admission to the prescribed courses in the different facs., or must have been admitted *ad eundem statum*

Matriculation Examination

The exam. will be in the following subjs.

Group A Engl

Group B (i) Latin, Greek, French, German, Italian, Hebrew

- (ii) Anc. hist., mod. hist., geog., Chinese, Japanese, Russian, Dutch or such other lang. as shall be approved by the professorial bd.

Group C. (i) Maths I, maths II, maths III, general maths

- (ii) Appl. maths, phys., chem., geol., phys.-&-chem., bot., zool., biol., agric.

Group D Econ., music, theory & practice of music

In order to qualify for matric, candidates must pass at one exam. in at least 5 subjs., of which one must be Engl., one must be chosen from each of group B and group C, and of these 2 subjs., at least one must be chosen from section (i) of either group B or group C. The remaining subjs. may be chosen from one or more of the groups B, C and D, provided that:

- neither phys. nor chem. may be taken along with the combined subj. phys.-&-chem.,
- neither bot. nor zool. may be taken with biol.,
- maths III may not be taken with gen. maths and neither maths I nor maths II may be taken with either maths III or gen. maths.,
- a candidate who offers maths and elects to take either maths III or gen. maths may not sit for maths I or maths II, a candidate who offers maths and does not elect to take maths III or gen. maths must take both maths I and maths II, a pass in either maths I or maths II will count as a pass in one subj., passes in both papers will count as passes in 2 subjs.,
- music is accepted for matric only where the pass was obtained at an exam. held after July 1, 1958, and provided that it is not taken with theory & practice of music.

There are no sp. requirements for matric in any fac.

These requirements shall not affect the right which any person would have had, because of a qualif. obtained before March 1, 1961, to matric. or to matric into any particular fac. Persons who passed an exam. approved for matric before March 1, 1961, should check their qualifs. with the registrar

Leaving Certificate Examination

A candidate who has passed at the Leaving Cert. exam. of the Dept. of Educn., N.S.W., in the subjs. and at the standards (an 'A' or a 'B' pass) required for matric, may be admitted to matric without further exam.

A candidate for matric. who has presented himself for the Leaving Cert. exam. held in 1959 and subsequent yrs. in 5 or 6 subjs. selected in accordance with the above requirements, and who has passed in Engl. and 3 other of these subjs., shall be granted matric status provided that he has been awarded 'A' passes or passes with honours in at least 3 of these 4 subjs. or is awarded passes with honours in at least 2 of these 4 subjs.

General

Any person who produces evidence that he has completed (a) the 1st yr. of the course at the Royal Military Coll. of Australia, or (b) the passing out exam. of the Royal Australian Naval Coll., or (c) the 1st yr. of the course at the Royal Australian Air Force Coll., may be admitted to matric without further exam.

Holders of the dipl. with honours of an approved agric. coll. or holders of a dipl. with honours or credit of an approved tech. coll. may be admitted to matric.

Persons of foreign nationality and educn. may be admitted to matric by a sp. exam. if they give evidence that satisfies a three-fourths majority of the fac. of arts and of the professorial bd. that they are of good fame and character, and personally and educationally qualified for entrance to the univ.

Restricted Admission

From 1962, admission to the fac. of med. will be restricted to those who are selected within a quota. Selection will normally be made on the basis of the best 5 papers taken at the N.S.W. Leaving Cert. exam. From 1963, admission to all other facs. will be similarly restricted.

Provisional Matriculation

Provisional matric. may be granted to any person of not less than 25 yrs. of age who produces satisfactory evidence that he is of educn. merit and who passes such exams. as may be prescribed. Provisional matric. granted to a person under these conditions shall be confirmed when he has fulfilled such requirements as the professorial bd. shall determine.

Admission ad eundem statum

The professional bd may admit as a matriculated student in any fac, with such status as the bd thinks proper in the circumstances, a person -

(a) who is a grad. of any other univ., or

(b) who presents a cert from an approved univ showing that he is qualified for matric and entrance to that univ and setting out the grounds of that qualif., provided that, in the opinion of the bd, there is a reasonable correspondence between the qualifying conditions relied on by the applicant and the conditions laid down for ordinary entrance to the Univ of Sydney

An applicant shall not be admitted unless he gives evidence of his degree or status and of good conduct

Before being admitted to matric, foreign students are required to show that they have an adequate knowledge of the Engl lang

TASMANIA*General Requirements*

From 1962, the only Tasmanian exam recognized for matric purposes is the matric exam conducted by the univ. Students are required to pass 5 subs., incl. (a) 2 from French, German, Latin, Greek, Engl lit., mod hist., anc. hist.; (b) 1 from maths A, maths B, phys., chem., biol., geol. Either a foreign lang. or a maths must be included. Of the 5 subs., 3 must be passed at advanced level and 2 at ordinary level. The 5 subs. must be passed in not more than 2 sittings, exams in Dec and the following Feb. counting as 1 sitting.

Until the new rules come into force in 1962, subs. passed at the Schs Bd exams conducted by the Schs Bd of Tasmania (taken 1 yr before matric) could be counted as lower level matric. passes. Interim rules provide for students who completed part of their matric. qualifs in 1961 and who will complete under the new rules

The normal min. age for admission to matric is 17 yrs. but students under this age may be admitted if considered by the professional bd to be of exceptional ability. Persons over the age of 23 yrs. may be admitted to matric. without having complied in full with the ordinary requirements

Prerequisites

There are no fac. prerequisites as such, but the following prerequisites for specific subs. are required

Foreign lang. An advanced level pass in the corresp. matric. subj.

Maths. An advanced level pass in matric. maths A

Phys. An advanced level pass in matric. maths A, or a pass in prelim. maths at the univ

Exempting Examinations

The univ. will admit to matric students who are qualified for admission to other Australian

univs., to univs. in the United Kingdom or New Zealand, and (subject to proficiency in Engl.) to other univs. of standing throughout the world. Students who gain partial qualifs. elsewhere may be awarded matric. on passing such subs. of the matric exam as may be prescribed by the professional bd

Last Date for Receipt of Applications

The last date for receipt of applns. for admission is Feb. 15 for all students

WESTERN AUSTRALIA*General Qualifications for Matriculation*

The min. age for admission is 17 yrs. The normal method of satisfying min. entrance requirements is by means of a qualifying exam in which candidates must pass in Engl. and 4 other prescribed subs. The qualifying exams incl. the Western Australian Leaving Cert exam held annually in Nov and the matric exam conducted by the Univ of W. Aust. in Feb. each yr. Admission to the matric exam is restricted to persons who seek to complete matric. requirements

There are no spec. requirements for entrance to any fac.

(1) The subs. for matric are (i) Engl., (ii) French, German, Greek, Hebrew, Italian, Latin, Spanish, or any other lang. approved from time to time by the bd., (iii) geog., hist., econ.; (iv) maths A, maths B, music, (v) biol., chem., geol., phys.

(2) Subject to section (3) (*below*), in order to matric, candidates must at 1 exam. pass in Engl. and in not less than 4 other subs. chosen from at least 3 of the groups (ii), (iii), (iv) and (v) above. For the purposes of this section the Leaving Cert exam. and the following matric exam shall be counted as 1 exam., provided that only candidates who have passed in not less than 4 prescribed subs. at the Leaving Cert exam. shall be permitted to complete the matric. requirements at the following matric exam.

(3) Candidates may matric. by passing at not more than 2 exams in the appropriate number of subs. required by section (2) hereof if they have left sch. before the commencement of the yr. in which the first of such exams. is taken and have since that time been gainfully employed. For the purposes of this section the Leaving Cert. exam. and the matric exam. shall be regarded as separate exams.

Special Exemptions

Students over the age of 21 may be admitted without passing the normal matric exam. In the facs of arts, econ. and educn. a sp. mature age exam. is held, while in the other facs. students are required to provide satisfactory evidence that they possess educnl. qualifs. sufficient to enable them to take the proposed course

Candidates from outside Western Australia

(i) Students from Australia, N.Z. and the United Kingdom Matric status is granted to students qualified for matric. in any other univ in Australia, N.Z. or the U.K.

(ii) Students from other parts of the British Commonwealth and certain Asian countries where U.K. exams are taken. Each applicant is considered on its merits. Applicants are expected to have a sufficient knowledge of Engl. lang. and

to have reached a standard of educn. equivalent to that required for matric. in a univ. in the U.K. (e.g. Univ. of Lond.)

(iii) Other overseas students. Students from other countries who have qualified for matric in approved univs. may be granted matric status. Each applicant is considered on its merits and applicants must have a sufficient knowledge of the Engl. lang.

(B) CANADA

(Contributed by Dr. B. F. Sheffield, Research Officer, Canadian Universities Foundation)

[The statement which follows relates only to the admission of students entering at the conclusion of secondary school studies and proposing to take full courses leading to a first degree. For information regarding admission at higher levels and to courses leading to higher degrees, see the entries for the several univs., above.]

GENERAL NOTE

The public elementary and secondary schools of Canada are under provincial jurisdiction. Each province has its own curriculum and awards its own certs. of completion of secondary school studies. Except in French Canada (see below), private schools are relatively few, enrol less than 5 per cent of the elementary and secondary school population, and usually follow the public school curriculum of the province in which they are located. Courses of study which prepare for entry to univ. are of 11 to 13 yrs. duration. Secondary school graduation certs. are at two levels, one generally referred to as the *junior matriculation* level (after the 11th or 12th grade or year of schooling), and the other, involving an addnl. year of study, as the *senior matriculation* level (after the 12th or 13th grade or year of schooling).

Some univs. admit at the jr. matric level, some at the sr., and some at both levels—allowing credit for one yr. of univ. studies on the basis of certs. at the sr. matric. level. Each univ. couches its entrance requirements in terms of the certs. awarded in its own province but all treat certs. of other provinces as if they were approx. equivalent to their own, differentiating only between jr. and sr. levels.

Most exams. marking the completion of high school (secondary) studies are set and marked by the dept. of educn. of the province concerned. Three of the four Atlantic provinces (Newfoundland, Prince Edward Island and Nova Scotia) co-operate in the support of an Atlantic Provinces Examining Bd. which sets and marks exams. for each of the three provinces. The exams. differ for the various provinces, however, and the results are issued by the provinces on their own certs. rather than by the Bd. An exception is made for a few private schools for which statements of exam. results are issued in the Bd.'s name. In

the province of Quebec there are two public examining bodies for Catholic schools—the *Comité de Régie du certificat d'études* (of the *Comité Catholique du Conseil de l'Instruction Publique*), and for Protestant schools—the Protestant High School Leaving Bd. (of the Protestant Cttee. of the Council of Education). In Ontario, exams. at the jr. matric level are set and marked, under the jurisdiction of the provincial dept. of educn., by individual schools, while those at the sr. matric level are under the supervision of a Univ. Matric Bd. composed of reps. of the major univs. of the province and reps. of the dept. of educn. In Manitoba, Saskatchewan, Alberta and British Columbia exams. are supervised jdy. by the univ. and the dept. of educn.

A number of the univs. of the Atlantic provinces set their own matric exam. when necessary, but few students present themselves and seldom does a student take these exams. in all of the required subjs. In the province of Quebec the three French-lang. univs., Laval, Montreal and Sherbrooke, have extensive programmes of exams. (described below). McGill Univ. sets sets of papers at both jr. and sr. levels, the former qualifying for the School Cert. and the latter for the Sr. School Cert. of the univ. The univs. of the other provinces do not set matric. exams. of their own but, as mentioned above, each co-operates with the dept. of educn. of its province.

Two innovations in 1961 deserve special mention.

(i) McGill Univ. introduced the use of Coll. Entrance Exam. Bd. tests which, in 1962 and subsequent yrs., will be required of all Canadian applicants for admission—in addition to a cert. of completion of secondary school studies (see pp. 1410). The Coll. Entrance Exam. Bd. (New York, N.Y.), through the Educnl. Testing Service (Princeton, N.J.), administers several times a yr.

in many centres in the USA and Canada a scholastic aptitude test and a series of objective-type achievement tests in various subs. The results of these standardized tests are used as addnl measures of suitability for admission to univ, often providing the basis for tentative acceptance of applicants and the award of entrance scholarships.

(2) In 1960, the Univ of Toronto made it a requirement that all candidates submit evidence of facility in the English lang (see p 1421). In 1961, most of the other English-lang univs began to experiment with tests of facility in English, asking that they be taken by overseas candidates whose schooling had been in another lang. If the experiment is successful, such tests are likely to be a general requirement in subsequent yrs. The tests currently in use are those administered in many parts of the world by the Univ of Michigan and the Univ of Cambridge. Res begun in 1960 is expected to lead to the development and use of comparable tests of facility in French, for candidates wishing to enter the French-lang univs.

In French Canada the course leading to the *baccalauréat ès arts* (BA) is given in independent *collèges classiques* affiliated to the univs. It is of 8 yrs' duration, in two 4-year stages called *cours secondaire* and *cours collégial*. The former is comparable to the high school of English Canada and the latter to the general course in arts. Admission to the 2nd stage is by passing the *immatriculation* exam set by the univ at the conclusion of the yr known as *versification*, which is the 4th (final) yr of the *cours secondaire* and the 11th yr of schooling. Compulsory exam. subs are French, Engl, Latin, hist, geog, maths and sci. Greek is optional. Recent revision of the Quebec French Catholic secondary school curriculum has made it possible for certain schools under provincial control to offer the equivalent of the 1st 4-yr stage, the classical course preparing for *immatriculation*.

The 4 yrs. of the *cours collégial* are called *bailes-lettres, rhétorique, philosophes I and philosophes II*. In colls affiliated to Laval and Sherbrooke, univ. exams are taken at the end of the 2nd yr. (*rhétorique*), and again at the end of the 4th yr for the *baccalauréat*. In those affiliated to Montreal, exams are taken at the end of every yr of the *cours collégial*.

In order to meet the needs of students wishing to enter certain facs of the French-lang univs by routes other than that offered by the *collège classique* the Univ. of Montreal and the Univ of Sherbrooke inaugurated within recent yrs. a one-yr preparatory course open to grads. of other secondary schools and leading to a *certificat d'immatriculation majeur ou senior*.

Laval Univ began, in 1961, a special 1-yr course (*12^e année spéciale*) for students completing the classical course in public secondary schools after which, by spending 3 addnl. yrs in the *collège universitaire* of Laval, they may qualify for the *baccalauréat*. In the same yr there was

instituted in the *collèges classiques* affiliated to Laval a new *cours des humanités*, 5 yrs of secondary schooling leading to a *diplôme d'inscription* (sr matric), followed by a 3-yr *collège* course to the *baccalauréat ès arts*. In 1961-62 only, the 1st yr. (*8^e année*) of the new secondary course was offered, so it will be several yrs before the new *diplôme d'inscription* will be awarded.

In the table which appears on pp 1403-1405 the most common certs and records of marks issued by official examining bodies in Canada are listed. The nos. assigned to them are referred to in the statements of requirements for admission to the various univs., which follow. The reader should be aware that some documents issued by examining bodies do not certify graduation but simply list marks obtained on exams., e.g. 'certificates' numbered 1, 2, 4, 9, 26, 27, 28. It should be noted also that some public high schools issue their own graduation dipls or certs on bases which may or may not meet the standards set by the provincial dept of educn., e.g. in Prince Edward Island and New Brunswick.

In order to make these individual statements somewhat comparable, three common headings are used for each English-language institution: A. Admission at the Junior Matriculation level, B. Admission at the Senior Matriculation level, and C. Students from Abroad. For the French-language univs., in which the terms jr. and sr. matric have less relevance, the three common headings are: A. Admission to the second stage (*cours collégial*) of the Arts programme in affiliated *collèges classiques*, B. Admission to certain degree courses in the University proper by a certificate of completion of secondary school, and C. Students from Abroad.

It should be noted that in most univs., admission to such professl schools as med., dent., law, theol., library sci., social work and educn. requires the previous attainment of a 1st degree in arts or sci. or at least 2 yrs of study, beyond the jr. matric. level, in arts or sci. Reference to these is omitted except in the few cases (e.g. med. and dent. at Toronto) where the pre-professl. studies are followed in the professl school itself and where admission is normally at the conclusion of secondary school studies.

Some oft-used terms defined.

Junior matriculation. Eligibility for admission to univ. at the lower of the two common levels of entry. A student holding a secondary school graduation cert. may or may not have 'junior matriculation' standing, depending on the number and pattern of the subs. taken and his standing on the exams.

Senior matriculation. Eligibility for admission to univ. at the higher of the two common levels of entry. Involves one yr. of study beyond the jr. matric. level.

Grade, Year. One yr. of primary or secondary schooling, Sept. to June. Thus grade XI is the 11th yr. of schooling, *12^e année* is the 12th.

Pass or General Course. An unspecialized univ. course, commonly leading to a bachelor's degree in 4 yrs. beyond jr matric, or 3 yrs beyond sr matric

Honours course. A specialized univ course, sometimes of the same length as the pass or general course, more often one yr longer

First year, Second year, etc., of course Counting from jr or sr matric, depending on which is the minimum level of admission to the fac concerned

Freshman, Sophomore, Junior, Senior year of course 1st, 2nd, 3rd, 4th yr, usually counting from the jr matric level.

CERTIFICATES AND RECORDS OF MARKS ISSUED BY OFFICIAL EXAMINING BODIES IN CANADA

No	Certificate or Record of Marks	Level *	Examining Body
1	<i>Atlantic Provinces</i> (Newfoundland, Prince Edward Island, Nova Scotia) Statement of Exam Results (grade XI, Newfoundland and Nova Scotia, grade XII, Prince Edward Island), Atlantic Provinces Examining Bd (The bd does not issue a graduation cert)	JM	Atlantic Provinces Examining Bd
2	Statement of Exam Results (grade XII, Nova Scotia), Atlantic Provinces Examining Bd (The bd does not issue a graduation cert).	SM	Atlantic Provinces Examining Bd
3	<i>Newfoundland</i> Metric Dipl (grade XI), Dept of Educn., Province of Newfoundland (Includes details of marks)	JM	Atlantic Provinces Examining Bd
4	<i>Prince Edward Island</i> Exam Results in grade XII subys, Dept of Educn., Prince Edward Island. (Graduation certs are issued by individual schools).	JM	Atlantic Provinces Examining Bd
5	Cert (or Honour Cert) of the 2nd Yr, Prince of Wales Coll and Normal School (Includes details of marks).	JM	Prince of Wales Coll
6	Cert (or Honour Cert.) of the 3rd Yr., Prince of Wales Coll and Normal School (Includes details of marks)	SM	Prince of Wales Coll
7	<i>Nova Scotia</i> High School Cert, grade XI, Dept of Educn, Nova Scotia (Includes details of marks The dept. also issues a 'Record of Exam Marks Only, Grade XI')	JM	Atlantic Provinces Examining Bd
8	High School Cert, grade XII, Dept of Educn, Nova Scotia (Includes details of marks The dept also issues a 'Record of Exam Marks Only, Grade XII')	SM	Atlantic Provinces Examining Bd
9	<i>New Brunswick</i> Departmental Exams, on completion of high school subys (grade XII), Dept of Educn., Province of New Brunswick (Graduation certs are issued by individual schs In addition, an Honour Cert is awarded by the Dept to those with 75 per cent average in 8 papers)	JM	New Brunswick Dept of Educn
10	Certificat d'immatriculation (Versification)	JM	Sacred Heart Univ, St Joseph's Univ., St. Louis Univ

* JM=junior matriculation level, SM=senior matriculation level

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No	Certificate or Record of Marks	Level *	Examining Body
<i>Quebec</i>			
11	Cert d'immatriculation (Versification)	JM	Laval Univ., Montreal Univ., Sherbrooke Univ.
12	Examen rhétorique	SM +	Laval Univ., Sherbrooke Univ.
13	Cert lettres-sciences	JM	Laval Univ., Sherbrooke Univ.
14	Cert d'immatriculation majeur or senior	SM	Montreal Univ., Sherbrooke Univ.
15	Cert d'Études Secondaires, Onzième Année, Dépt de l'Instruction Publique, Province de Québec	JM	Comité de Régie du Cert d'Études (of the Comité Catholique du Conseil de l'Instruction Publique)
16	Cert de Douzième Année, Dépt de l'Instruction Publique, Province de Québec. Details of marks are given in separate documents.	SM	Comité de Régie du Cert d'Études (of the Comité Catholique du Conseil de l'Instruction Publique)
17	Dipl. d'études techniques, 4 ^e année	SM +	Instituts de technologie, Province de Québec
18	Catholic High School Leaving Cert (grade XI), Dept of Educn., Province of Quebec	JM	Catholic High School Exam Bd (of the Catholic Cttee of the Council of Educn.)
19	Catholic Sr High School Leaving Cert (grade XII), Dept. of Educn., Province of Quebec	SM	Catholic High School Exam Bd (of the Catholic Cttee. of the Council of Educn.)
20	High School Leaving Cert (grade XI), Dept of Educn., Province of Quebec. (Includes details of marks. The dept also issues a statement of marks, 'High School Leaving Exam, Quebec', to those who have not qualified for the cert.)	JM	Protestant High School Leaving Bd (of the Protestant Cttee of the Council of Educn.)
21	Sr. High School Leaving Cert (grade XII), Dept of Educn., Province of Quebec (Includes details of marks. The dept also issues a statement of marks, 'Sr. High School Leaving Exam, Quebec', to those who have not qualified for the cert.)	SM	Protestant High School Leaving Bd (of the Protestant Cttee of the Council of Educn.)
22	School Cert, McGill Univ	JM	McGill Univ
23	Sr School Cert, McGill Univ.	SM	McGill Univ
<i>Ontario</i>			
24	Secondary School Graduation Dipl. (grade XII) of the General Course, Dept of Educn Act, Ontario. (Details of marks may be obtained only from the principal of the sch. attended)	JM	Secondary schools supervised by the Ontario Dept of Educn.
25	Secondary School Honour Graduation Dipl (grade XIII) of the General Course, Dept of Educn Act, Ontario. (Details of marks are given in a separate document. Grade XIII exam, Dept of Educn, Ontario)	SM	Univ. Matric Bd., Ontario Dept of Educn
<i>Manitoba</i>			
26	Statement of standing, grade XI schedule, Dept of Educn., High School Exam Bd., Province of Manitoba (The dept. does not issue a graduation cert.)	JM	High School Exam. Bd, Manitoba Dept. of Educn
27	Statement of standing, grade XII schedule, Dept of Educn, High School Exam Bd, Province of Manitoba (The dept does not issue a graduation cert.)	SM	High School Exam Bd, Manitoba Dept of Educn

* JM=junior matriculation level; SM=senior matriculation level; SM +=beyond senior matriculation level

No	Certificate or Record of Marks	Level *	Examining Body
28	<i>Saskatchewan</i> Statement of standing, grade XII schedule, Dept of Educn., Province of Saskatchewan (Since 1961, the dept does not issue a graduation cert)	SM	Bd of Examiners, Saskatchewan Dept. of Educn
29	<i>Alberta</i> Sr High School Dipl (grade XII), Dept of Educn, Province of Alberta (Details of marks are given in a separate document High School Record, Educn Dept, Alberta)	SM	High School and Univ Matric Exam Bd, Alberta Dept of Educn.
30	<i>British Columbia</i> High School Graduation Dipl (Univ Programme) (grade XII), Dept of Educn, The Govt of the Province of British Columbia (Details of marks are given in a separate document - British Columbia Transcript of Record, grades IX-XIII)	JM	Bd of Examiners, British Columbia Dept of Educn
31	British Columbia Transcript of Record, grades IX-XIII	SM	Bd of Examiners, British Columbia Dept of Educn.

Subject, Paper In any one subject in which a candidate is examined for graduation from secondary school he may be required to write 1, 2 or (occasionally) 3 papers

Elective, Option. A matric subj which may be chosen with more or less freedom from a list of subjs., no one of which is compulsory.

Credit When an entering student is given credit for a univ subj., he is exempted from it and

the number of courses required for the degree is thus reduced

College aptitude test Usually a psychological exam. of scholastic aptitude. an intelligence test or something similar

Music certificates Certs. required for admission to facs of music frequently are referred to in such terms as grade VIII practical, grade II theory The reference is to the exams of one or other of the conservatories of music in the region.

SPECIFIC CONDITIONS

ACADIA

A Admission at Junior Matriculation level

- 1 Cert in terms of which requirements are expressed - no 7.3
- 2 Other certs listed as acceptable equivalents none listed, but equivalent certs. will be accepted.
3. General requirements. applicants must pass the matric exams of the univ (held in Sept) or present certs acceptable as equivalents.
4. Specific requirements

Arts, sci., engl., comm, home econ, secretarial sci (a) Matric subjs. (1) Engl., algebra, geom., a lang. other than Engl.; (2) any 3 of hist., phys., chem, biol., trig., French, Latin, Greek, German, Spanish, music (b) Required standing an average of 60 per cent. with no mark below 50 per cent.

Music As for arts and sci., plus grade VII standing in music

B. Admission at Senior Matriculation level

- 1 Cert in terms of which requirements are expressed - no. 8.3
- 2 Other certs listed as acceptable equivalents no. 6.3 Other certs will be accepted.
- 3 General requirements - credit may be given for a max. of 5 subjs. of the 1st yr., but conditions are attached to the granting of such credit for phys., chem. and maths

C. Students from Abroad

Certs are evaluated in terms of the requirements stated above

ALBERTA

A Admission at Junior Matriculation level None

- * JM=junior matriculation level, SM=senior matriculation level
§ See pp. 1403-1405

B. Admission at Senior Matriculation level

1 Cert in terms of which requirements are expressed no 29*

2. Other certs listed as acceptable equivalents: none listed, but equivalent certs will be accepted.

3 General requirements (a) students from the high schools of Alberta must present (1) a high school dipl. with (a) 'B' or higher standing in the required courses of grade XII (see below), and (3) an average in these courses of at least 60 per cent.; (b) candidates from outside Alberta will be required to meet equivalent standards, (c) a fee of \$5.00 is charged for evaluation of documents issued by Canadian educul institutions outside Alberta, and a fee of \$10.00 for documents issued by educul institutions outside Canada.

4. Matriculation subjects required.

Agric. Engl.; social studies, maths §, chem., and 2 of: phys, biol., French or German or Latin (phys is recommended).

Arts. Engl., social studies, maths §, French or German or Latin; and 2 of: chem, phys, biol., French or German or Latin

Comm. Engl.; social studies, maths §; and 3 of: chem., phys, biol., French or German or Latin

Educn Engl., social studies, and 4 of: maths.§, chem, phys, biol, French, German, Latin. Candidates intending to specialize in household econ or phys. educn should offer chem

Engn Engl.; social studies, maths. (2 papers: algebra and trig), chem, phys.; and French or German or Latin.

Household econ Engl.; social studies, maths §, chem.; phys or biol (phys. is recommended), French or German or Latin

Med lab sci Engl., social studies; maths §; chem., and 2 of: phys., biol., French or German or Latin.

Musc Engl., social studies, maths.§, French or German or Latin; and 2 of: chem, phys, biol, French or German or Latin. In addition, students must have completed grade VIII practical and grades IV and V theoretical of the Western Bd of Music exams, or the equivalent

Pharmacy Engl.; social studies, maths §, chem., and 2 of: phys., biol., French or German or Latin (phys. is recommended)

Phys. educn. Engl.; social studies, chem; and 3 of: French, German, Latin, phys, biol. (recommended), maths

Sci Engl.; social studies, maths §, one of: French, German, Latin, 2 of: chem, phys, biol. (chem and phys are strongly recommended) A separate paper in trig is an addnl. requirement for those intending to follow studies in the phys. scis or maths.

* See pp. 1403-1405

§ One paper, mainly in algebra but including some trig

Nursing Engl., social studies, chem.; and 3 of: maths.§, phys, biol, French or German or Latin

5 Mature matric. students of mature age whose high school preparation has not been regular may in certain circumstances be excused from presenting a high school dipl. Such students should apply to the registrar for specific information

C Students from Abroad

Certs. are evaluated in terms of the requirements stated above

U.K. The G.C.E. is accepted as sr. matric with standing at the advanced level in at least 2 appropriate subsys. and at the ordinary level in the remainder of the 5 subsys. prescribed for admission to the fac concerned

Other Commonwealth Applicants from other countries of the Commonwealth are generally deemed eligible for admission if they have the standing prescribed for admission to their 'home' univ as outlined in the *Commonwealth Universities Yearbook*

USA Applicants generally must have high school graduation plus at least one full yr (the freshman yr) of coll. work with satisfactory standing in Engl., a lang. other than Engl., maths., and 2 of: biol, chem, phys. The univ is experimenting with the use of the Coll Entrance Exam Bd. aptitude and achievement tests as an aid to the selection of students from the U.S.A.

Europe. Students who have completed the requirements for admission to a European univ. are deemed eligible for admission at the sr. matric level upon passing a special oral and written Engl. lang. exam. Such students, therefore, are not granted firm admission until they have taken up residence in Alberta and have passed this exam.

Middle East, Asia, West Indies, South America. Because the univ has not a satisfactory procedure for the selection of students from these areas, admission to undergrad programmes is granted only if the applicant is able to produce documentary evidence of having passed a widely recognized exam. at the sr. matric level, such as the G.C.E. of various U.K. examining bodies, the American C.E.B. achievement tests, the Univ of Hong Kong Matric exam, etc. In all cases the univ will require proof of proficiency in Engl. and of financial competence

ASSUMPTION, WINDSOR

A. Admission at Junior Matriculation level

1 Cert in terms of which requirements are expressed no 24*

2 Other certs. listed as acceptable equivalents. equivalent certs. will be accepted. See C below.

3. General requirements: jr. matric. admits to the 'prelim. yr.'

4. Specific requirements:

Arts (a) Matric subs. (1) Engl; (2) hist., (3) Latin or maths., (4) one of Latin, French, German, Spanish or Italian, Greek, (5) two of maths., sci. or agric., music (grade III theory, or grade VII practical and grade II theory), geog., another from (4) above. (b) Required average at least 65 per cent

Sci. As for arts, but with an average of at least 66 per cent; in maths and sci.

5. Mature matric. mature students who lack normal admission requirements but who can give evidence of likelihood of success in univ. studies may be admitted on probation. Satisfactory completion of one yr.'s work will fulfil matric. requirements for degree candidacy

B Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 25*

2. Other certs. listed as acceptable equivalents. equivalent certs. will be accepted. See C below

3. General requirements. (a) satisfactory completion of the prelim. yr. or of 9 papers of grade XIII (cert. no. 25*) or the equivalent admits to the first yr. (an applicant may be admitted with one condition, i.e. lacking one subj.); (b) required average at least 60 per cent

4. Specific requirements

Arts. Matric subs. Engl (2 papers); another lang. (2 papers); and either maths (2 papers) or a 3rd lang. (2 papers) and any 3 other papers, or music and any 4 other papers

Comm. (bus. admin.) Matric. subs. Engl (2 papers), another lang. (2 papers), algebra and one other maths. paper, and any 3 other papers.

Pure sci. (a) Matric subs. Engl (2 papers), another lang. (2 papers), algebra, geom., trig., chem. and phys. (b) Required standing: an over-all average of 60 per cent, plus an average of 60 per cent in maths and sci.

Nursing. Matric subs. Engl (2 papers), another lang. (2 papers), bot., chem., zool., and any 2 other papers

Appl. sci. (engin.) Matric. subs. and required standing: algebra, geom., trig. (60 per cent average), chemistry and physics (60 per cent average), Engl. (2 papers), either another lang. (2 papers) or 2 papers from bot., geog., hist., zool. (60 per cent over-all average and grade XII, i.e. jr. matric., lang. also required).

5. Mature matric. mature students who are excused part of the normal sr. matric. requirements at the discretion of the cttee. on admissions.

C Students from Abroad

Certs. are evaluated in terms of the requirements stated above

U.S.A. (a) Graduation from a U.S. high school will admit to the prelim. yr. provided the

applicant has completed at least 16 academic units, incl. 4 units in Engl., and sequences (at least 2 and preferably 3 units) in each of maths., sci., social studies and one foreign lang. An applicant for arts may substitute addnl. units in another foreign lang. for either maths. or sci.

(b) In addition the applicant must receive a favourable recommendation from his principal, be ranked in the upper half of his class, and obtain a score on a psychological exam. satisfactory to the cttee. on admissions

Latin America. For admission to the prelim. yr. an applicant must present a cert. showing satisfactory completion of the *bachillerato universitario* necessary for admission to univ. in his own country

U.K. The G.C.E. (or an equivalent cert. from elsewhere in the Commonwealth) will admit to the prelim. yr. provided it indicates satisfactory completion of 5 subs. at the ordinary level (3 of which must be Engl., another lang., maths.). If 2 of the 5 subs. are at the advanced level, the G.C.E. will admit to first yr., provided the subs. chosen are appropriate to the course to which admission is sought

BISHOP'S

A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 20*

2. Other certs. listed as acceptable equivalents: no. 24.* Other equivalent certs. will also be accepted. See also C below

3. General requirements: subs. accepted for entry are classified in 3 groups: *group I*—Engl. (2 papers), French (2 papers), Latin (2 papers), maths. (algebra and geom.), *group II*—biol., chem., geog., German (2 papers), Greek (2 papers), hist., inter algebra, N. American lit., phys., Spanish (2 papers), trig.; *group III*—agric., arts and crafts, household sci., music

4. Specific requirements

Arts, bus. admin. (a) Matric. subs. (10 papers): Engl. and 2 other subs. (6 papers) from group I; the remaining 4 papers may be from groups I, II and III, with not more than one from group III. (b) Required standing: an average of at least 70 per cent with no failures; however, a student may be admitted with an average between 65 and 70 per cent if he has high marks in arts subs.

Sci. (a) Matric. subs. (10 papers): Engl., maths. and one other subj. (6 papers) from group I, the remaining 4 papers may be from groups I, II and III, with not more than one from group III. The subs. chosen from group II should include at least 2 of: biol., chem., phys. (b) Required standing: an average of at least 70 per cent. with no failures, however, a student may be admitted with an average between 65 and 70 per cent. if he has high marks in sci. subs.

* See pp. 1403-1405

B Admission* at Senior Matriculation level

1. Cert in terms of which requirements are expressed no 21*
2. Other certs. listed as acceptable equivalents no. 25* Other equivalent certs will also be accepted. See also B 3 below.
3. General requirements: satisfactory standing in 5 subs at the sr matric level may be accepted as the equivalent of a full 1st yr Teachers holding the Quebec Permanent or Advanced Elementary Cert. shall be granted credit for the 1st yr. of the arts course.

C Students from Abroad

Certs are evaluated on the basis of the requirements stated above

USA Students from the USA will be admitted on the basis of the Coll Entrance Exam. Bd 2 aptitude tests, and achievement tests in Engl and 2 other subs.

4 Specific requirements

Arts, sci, home econ, phys. educn, agric, educn A student qualified for admission and who has cert no 31* or its equivalent may be given credit for subs. passed which meet the requirements of the first yr

Appl sci (a) Required subs Engl, maths., chem., phys., and one of Latin, French, German, Russian (b) Required grades . 60 per cent in maths., chem and phys., and 50 per cent in other subs

Comm & bus admin (a) Required subs Engl, maths, and 3 others

For (a) Required subs bot. or phys.; chem., Engl., maths, and one other.

Nursing. (a) Required subs. Engl.; chem; zool or biol, maths, and one other (b) Required grades 60 per cent in either chem or zool, or an over-all average of at least 60 per cent. In other subs at least 50 per cent. is required

Pharmacy (a) Required subs. chem, Engl, maths, phys or zool. or biol; and one other (b) Required average 60 per cent

BRITISH COLUMBIA**A. Admission at Junior Matriculation level**

1. Cert in terms of which requirements are expressed. no. 30*
2. Other certs listed as acceptable equivalents none listed, but equivalent certs will be accepted
3. General requirements. minimum age, 16 yrs.
4. Specific requirements:

Arts, sci., agric, educn Cert no 30*, or the equivalent. Students entering arts and sci with the intention of entering appl sci or for after one yr are advised to offer jr matric standing in chem., maths and phys

Home economics As for arts and sci., preferably including standing in home econ.

Phys. educn As for arts and sci., preferably including standing in chem

B Admission at Senior Matriculation level

1. Cert in terms of which requirements are expressed: first yr, fac of arts and sci., Univ. of British Columbia.
2. Other certs. listed as acceptable equivalents. no 31.* Other equivalent certs will also be accepted
3. General requirements a student, qualified for admission, who has cert no. 31* or its equivalent, may be given credit for not more than 5 subs in the first yr. of the fac. of arts and sci., the fac and coll of educn, or the fac of agric For admission to appl. sci, nursing, pharmacy, for., or comm & bus. admin. a student must have completed the first yr in arts and sci. at the Univ of British Columbia (which is recommended) or its equivalent at an approved univ or by sr matric

C. Students from Abroad

(a) General. a student from a country where Engl is not the common lang must satisfy the registrar that his knowledge of Engl. is adequate to permit the successful pursuit of his studies

All foreign students, and students who have not matriculated from a high school where Engl. is the lang of instrcn, shall report for screening tests on the Friday preceding the week of registration, students who fail so to report may be denied admission to the univ. No such student shall be allowed to register before he has taken the screening test. The cttee in charge of the preparatory Engl classes shall, upon reading the screening tests, recommend as to the students' admission and to the level and no. of courses in which registration should be permitted A student for whom the preparatory Engl course is prescribed must attend classes in this suby regularly if he wishes to continue with his univ. course He will be admitted to the credit courses in Engl. and certain other subs. only after he has achieved reasonable competence in the work of the preparatory classes

Advanced standing granted to a student on the basis of work completed in other countries will be tentative only, and is subject to review after the student has completed one or more sessions at this univ

A student coming directly from another country must give satisfactory evidence of his ability to meet the costs of tuition, board and room, books, and incidentals

(b) Standing certs are evaluated in terms of the requirements stated above

U.K The G.C.E. is accepted as jr matric. if it includes ordinary level standing in Engl. (lang. & lit.), another lang., maths., a lab. sci., or a 2nd

* See pp. 1403-1405

foreign lang, and either hist or geog. or an approved option. No student is admitted unless he has met these requirements in full. Credit is then given at the sr matric level for approved subs passed at the advanced level for the G.C.E. An applicant with acceptable ordinary level standing may be exempted from the pre-engn (appl sci), pre-for or pre-comm yr in arts and sci. if he has 3 appropriate subs at the advanced level. For appl sci (engn)—maths, phys. and chem are required, for comm—Engl, maths. and one other suby, for for—chem, maths and either bot or phys. Three advanced level subs will admit to the 2nd yr of arts, sci, agric or educn. Such subs as art, religious knowledge, mechanical drawing, etc., are not recognized for admission at either jr or sr matric levels.

West Indies The minimum requirement for admission is a Cambridge Overseas School Cert., grade I or grade II, incl Engl (lang & lit), another lang, a lab. sci, maths, and either hist or geog. or an approved option such as a 2nd sci or a 2nd lang and, in addition, at least 2 of these subs. at the principal level in the Higher School Cert. or at the advanced level in the G.C.E. No student is admitted unless he has met these requirements in full. The G.C.E. of a UK examining body is acceptable provided it shows ordinary level standing in the required subs. These certs admit to the 1st yr of the 4-yr course leading to the degree of BA or BSc. Credit may be given at the sr matric level for approved subs passed at the principal level on the Higher School Cert. or at the advanced level on the G.C.E.

Hong Kong, China In general, a student from Hong Kong or China must have reached an educnl level which would admit him to the Univ. of Hong Kong, and must have taken the subs required for admission to the Univ. of British Columbia. A student who has matriculated in the Univ. of Hong Kong with 2 subs. at the advanced level, incl Engl, another lang (which may be Chinese), maths, a lab sci, and either hist or geog. or an approved option such as a 2nd sci, or a 2nd lang may be admitted to the Univ. of British Columbia. No student is admitted unless he has met these requirements in full.

CARLETON

A Admission at Junior Matriculation level

1 Cert in terms of which requirements are expressed no 24 *

2 Other certs listed as acceptable equivalents nos 3, 5, 7, 9, 20, 22, 26, 30 *, and completion of grade XI in Alberta or Saskatchewan. Other equivalent certs will also be accepted.

4. Specific requirements: arts, comm, journalism, sci. (a) Matric subs: (1) Engl, (2) maths (algebra and geom), (3) hist, (4) a lang other than Engl, (5) sci (phys and chem, or agric, sci.) or an addnl lang, (6) one of: music, art, commercial work, geog, agric, an addnl lang

(b) Required average: at least 65 per cent on school exam or 60 per cent on provincial (external) exam

5 Mature matriculation: a person over the age of 23 years who, though lacking the admission requirements specified above, can give evidence of the likelihood of success in univ. studies, may be admitted on trial. If he completes successfully the subs of the 1st yr, his matric will be confirmed and he will be given credit for the yr.

B Admission at Senior Matriculation level

1 Cert in terms of which requirements are expressed no 25 *

2 Other certs listed as acceptable equivalents nos 6, 8, 21, 23, 27, 28, 29, 31 * Other equivalent certs will also be accepted

3. General requirements: (a) admission will be granted to the 2nd yr of arts, comm, journalism or sci, or to the 1st yr of engn, to candidates who offer (1) jr matric or mature matric, as prescribed in A above and, in addition, (2) completion of 1st yr or attainment of cert no 25 * or an equivalent cert with required standing in 5 appropriate subs, (b) no more than 5 sr. matric subs taken in a secondary school may be counted toward a Carleton degree

4 Specific requirements:

Arts Matric subs: Engl composition & lit, a lang other than Engl; maths (2 or 3 of algebra, geom, trig) or an addnl lang, a sci. (biol or chem. or phys.), one of: hist, geog, a 2nd sci., a 2nd lang other than Engl

Comm Matric subs: Engl composition & lit, a mod lang other than Engl, maths. (algebra, geom and trig), a sci (biol or chem or phys); one of: hist, geog, a 2nd sci, a 2nd lang other than Engl

Engn (a) Matric subs: Engl composition & lit, maths (algebra, geom, incl analytic geom, and trig), phys., chem, one of: Latin, Greek, French, German, Spanish, Italian, hist, biol (bot and zool) (b) Standing required: 1st or 2nd class standing in maths, phys and chem

Journalism Matric subs: Engl composition & lit; a lang other than Engl; maths. (2 or 3 of algebra, geom, trig) or Latin, a sci (biol or chem or phys); one other, preferably hist

Sci (a) Matric subs: Engl composition & lit, a lang other than Engl; maths. (algebra, geom, and trig.), 2 of: phys, chem, biol. (b) Standing required: at least 3rd-class standing in maths. and sci subs.

C Students from Abroad

Certs are evaluated in terms of the requirements stated above

UK The G.C.E. is recognized as equivalent to cert no 25 * if the candidate offers passes in 6 subs, including 2 at the advanced level. The

* See pp. 1403-1405

Scottish Higher Leaving Cert is also equated to cert no. 25.*

DALHOUSIE

A. Admission at Junior Matriculation level

1. Cert in terms of which requirements are expressed: no 7*

2. Other certs listed as acceptable equivalents nos 1 and 5* Other equivalent certs will also be accepted

3. General requirements minimum age, 16 yrs

4. Specific requirements.

Arts, sci, comm., engin, nursing, pharmacy
(a) Matric subs. (1) Engl, (2) algebra, (3) geom, (4) a lang other than Engl, (5) any three of hist., phys, chem., biol, trig., Latin, Greek, French, German, Spanish. (A student who, by reason of race or trig, is fluent in a lang other than those listed in (5) may offer it instead of one of them) (b) Required standing a mark of 50 per cent in each subj with an average of 60 per cent

B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no 8*

2. Other certs. listed as acceptable equivalents none listed, but equivalent certs will be accepted

3. General requirements. credit may be given for a max of 5 subs of the 1st yr, but conditions are attached to the granting of such credit for Engl, maths and sci. subs

C. Students from Abroad

Certs. are evaluated in terms of the requirements above. Note permission to offer a lang other than Engl, other than those listed. (See A 4 (a) above).

UNIVERSITY OF KING'S COLLEGE

Admission requirements are those of the fac. of arts and sci of Dalhousie Univ.

LAVAL

A. Admission to the second stage ('cours collégial') of the Arts programme in affiliated 'collèges classiques' and to the 'collège universitaire'

1. Cert in terms of which requirements are expressed: no. 11*

2. General requirements: completion of the cours secondaire and success in the matriculation exam, no 11*

B. Admission to certain degree courses in the University proper by a certificate of completion of secondary school

1. Cert in terms of which requirements are expressed: no 16.*

2. Other certs listed as acceptable equivalents none listed

3. General requirements: (a) 4 copies of a recent photograph; (b) letter of recommendation, (c) cert of birth or baptism; (d) cert. of vaccination, (e) the prerequisite dipl., (f) cert of admission to the appropriate profess body. In all cases admission may be granted to a candidate presenting the *baccalauréat ès arts*. One presenting a lesser qualif ordinarily will be required to take an *examen d'admission* set by the univ. Because lectures are in French, candidates should have facility in that lang

4. Specific requirements

Agric., fisheries, pharmacy, sci and engin, surveying and for engin Cert no 16 (scientific)*
Comm Cert no 16 (*spéciale or scientifique*)*
Dom. sci. Cert. no 11 or no. 16*

C. Students from Abroad

Certs are evaluated on the basis of the requirements stated above

UK The G.C.E. is accepted for admission to sci., engin, for, comm and agric

MCGILL

A. Admission at Junior Matriculation level

1. Cert in terms of which requirements are expressed: no 22*

2. Other certs listed as acceptable equivalents: nos 3, 5, 7, 9, 18, 20, 24, 26, 30*, and completion of grade XI in Alberta or Saskatchewan. Other equivalent certs will also be accepted. See also C below

3. General requirements (a) minimum age, 16 yrs, (b) Coll. Entrance Exam Bd tests are required of all Canadian applicants (see also pp. 1401-1402); (c) a complete secondary school record and a confidential report from the principal of the applicant's school are required (d) students whose native lang. is not Engl. must satisfy the univ. that their command of written and spoken Engl is adequate; (e) in June and Aug. of each yr the univ. conducts the exams of its Jr School Cert, the examinations set being as follows: Engl (lit & composition), French (written & oral), algebra, geom., chem, phys., bot., biol, inter. algebra, trig., German (2 papers), Spanish (2 papers), Latin (2 papers), Greek (2 papers), Russian (2 papers), general hist., British hist., Canadian hist, geog, art, music.

4. Specific requirements

Agric (Macdonald Coll.). Matric. subs (10 papers) Engl., hist., Latin or French or German or Spanish (French preferred), elem. algebra and elem. geom.; phys or chem or biol.; either Latin, French, German or Spanish (if not already chosen) or 2 of the following papers not already chosen: inter algebra, trig, bot or biol

* See pp 1403-1405

(not both), chem, phys, art, geog., British or Canadian hist.

Arts (a) Matric subsj. (10 papers) Engl., general hist., Latin or Greek, French (written & oral) or Greek or Latin (the one not already chosen) or German or Spanish or Russian; elem. algebra and elem. geom., one of biol., bot., chem., art, geog., phys., music, inter algebra, trig., Canadian or British hist., a lang. not already chosen (the average of the 2 lang. papers is counted) (b) Standing required: an average of at least 65 per cent. If neither Latin nor Greek is included the average required is 70 per cent.

Comm As for arts or sci

Educn (Macdonald Coll.) (a) As for arts or sci (b) Students applying for admission by means of cert. no. 20* may offer agric., household sci. or N. American lit. as optional papers. (c) Candidates are also required to meet the Admissions Cttee. of the School for Teachers before their applicants are approved.

Engin., archit. As for sci, except that students from the Province of Quebec must offer trig. and inter algebra.

Household sci. (Macdonald Coll.) As for agric. except that music is an addnl. option. Music and art may not both be chosen.

Music (a) Matric subsj. (10 papers) Engl., general hist.; French, German, Latin, Spanish or Greek, elem. algebra or elem. geom., music (practical: instrument or voice) for candidates seeking admission to the MusB programme in either composition or school music, instrument or voice 11 for MusB in performance. Theoretical theory 9; 3 of: biol., bot., chem., art, geog., phys., inter algebra, trig., British or Canadian hist., a lang. not already chosen. (b) Required average: at least 65 per cent.

Phys. and occupat. therapy (a) Sex—female (b) Matric subsj. and required standing: as for sci.

Phys. educn. As for educn., notes (a) and (b) above.

Sci. (a) Matric subsj. (10 papers) Engl., general hist., French (written & oral) or German; elem. algebra and elem. geom.; one of biol., bot., chem., phys., either Latin, Spanish, French or German (if not already chosen) or any 2 of the following papers not already chosen: inter algebra, trig., biol. or bot. (not both), chem., geog., phys., British or Canadian hist., music or art (not both) (b) Required standing: an average of at least 70 per cent. Special consideration may, however, be given to BSc candidates who have secured an average of 65 per cent. to 70 per cent. and have shown distinction in subsj. related to the course they wish to enter.

B Admission at Senior Matriculation level

1 Cert. in terms of which requirements are expressed. no. 23.*

2 Other certs. listed as acceptable equivalents. nos. 6, 8, 19, 21, 25, 27, 28, 29, 31.* Other equivalent certs. will also be accepted. See also C below.

3 General requirements. (a) A candidate may be considered for admission to the 2nd yr. of the fac. of arts and sci. or the fac. of engin. if he has jr. matric as prescribed in A above and sr. matric as prescribed below; (b) Coll. Entrance Exam 3d tests are required of all Canadian applicants (see also pp. 1401-1402); (c) a complete secondary school record and a confidential report from the principal of the applicant's school are required; (d) in June and Aug. of each yr. the univ. conducts the exams of its St. School Cert., the exams set being as follows: Engl. (lit. & composition), accountancy, biol., chem., drawing, French (2 papers), geog., German (2 papers), Greek (2 papers), hist., Latin (2 papers), maths (3 papers), music, Spanish (2 papers), phys.

4 Specific requirements.

Arts (a) Matric subsj. Engl., Latin or Greek, maths (for which, under certain conditions, a substitute may be offered); 2 of: hist., Latin or Greek (the one not already chosen), French, German, Spanish, sci. (phys., chem. or biol.), music, geog. (b) Required standing: an average of at least 70 per cent. Special consideration may, however, be given to candidates who have an average of 65 per cent. to 70 per cent. if they have obtained high standing in Engl., lang., hist.

Comm (a) Matric. subsj. Engl., maths (algebra, and trig.—or co-ordinate geom. as for sci.), accountancy (for which, under certain conditions, a substitute may be offered), a mod. lang. other than Engl.; one of: hist., a 2nd lang. other than Engl., a sci. (incl. geog.). (b) Required standing: as for arts, with special consideration to those with an average of 65 per cent. to 70 per cent. and high standing in Engl., hist., maths.

Engin., archit. (a) Matric subsj. Engl.; maths (all 3 papers); phys., chem., one of: French, German, Spanish, Latin, Greek, hist., biol., geog. (b) As in note (c) for sci.

Sci. (a) Matric subsj. Engl.; maths. (algebra and trig.) [Candidates who have passed jr. matric trig. may offer co-ordinate geom. instead of sr. matric trig., and are advised to offer co-ordinate geom. if they intend to study for honours in maths, phys. or chem.], phys., chem., one of: French, German, Spanish, Latin, Greek, hist., biol., geog. (b) Required standing: as for arts, with special consideration to those with an average of 65 per cent. to 70 per cent. and high standing in maths, phys., chem., biological sci. (c) A candidate who has jr. matric. French may satisfy the sr. matric. German requirement by offering jr. matric. German.

* See pp. 1403-1405

C Students from Abroad

Certs are evaluated on the basis of the requirements stated above

USA (re admission at jr. matric level) All candidates from the USA must write the tests conducted by the Coll Entrance Exam. Bd Applicants should preferably write the Jan or March tests, taking the scholastic aptitude test and 3 achievement tests, the latter chosen in consultation with the school principal. In addition, applicants must submit their complete high school record and should arrange for a confidential letter from the school principal or other competent officer to be mailed directly to the univ. Further particulars are obtainable from the registrar of the univ.

UK For admission at the jr. matric level the G.C.E. with passes at the ordinary level in 5 subs (other than religious knowledge), chosen in accordance with fac requirements. For admission at the sr matric level the G.C.E. with passes in 5 subs at the ordinary level and, in addition, in at least 2 appropriate subs. at the advanced level.

ys of age, even though they may not meet the ordinary entrance requirements, may apply for admission. Their applicants will be considered on their merits.

C Students from Abroad

Certs are evaluated in terms of the requirements stated above

USA A student from the U.S.A. may be admitted to yr 1 on submitting a cert of high school graduation recognized by the Coll Entrance Bd of the region from which he comes, plus an addnl yr of study in a recognized univ. The attention of such students is especially directed to the suby requirements for admission to McMaster Univ.

UK Students offering the G.C.E. should have 5 subs, 2 of them at the advanced level and the others at the ordinary level. Suby requirements are as outlined in B above, with the advanced level subs appropriate to the course desired. Students entering sci should have at the advanced level at least 2 of chem, phys, pure or appl maths. Students entering engin should have at the advanced level chem. or phys, and pure or appl. maths

McMASTER

A Admission at Junior Matriculation level

None.

B Admission at Senior Matriculation level

1. Cert in terms of which requirements are expressed . no. 25 *

2 Other certs listed as acceptable equivalents : nos 6, 8, 21, 23, 27, 29, 31.* Other equivalent certs. will also be accepted

3 General requirements. certs. nos. 24 and 25*, or the equivalent, the latter showing standing in 5 subs., comprising 9 papers with an average of at least 60 per cent—Engl (2 papers), a lang. other than Engl (2 papers), an addnl lang (2 papers) or maths (2 papers), and 3 addnl. papers—chosen to meet the specific requirements of the course to which admission is sought

4 Specific requirements

Arts—(general and philosophical studies, social studies), **comm** Matric subs. . as listed in B 3 above

Arts (lang & lit. studies). Matric subs : Engl., 2 langs other than Engl, and 3 addnl. papers

Engin As for sci. but with an average of at least 64 per cent

Nursing Matric. subs. as listed in B 3 above, preferably incl chem. as one of the '3 addnl. papers'

Sci Matric subs. . Engl, a lang other than Engl, maths. (algebra, geom. and trig), chem and phys.

5 Mature matriculation: candidates over 21

MANITOBA

A Admission at Junior Matriculation level

1 Cert in terms of which requirements are expressed . no 26 *

2 Other certs listed as acceptable equivalents none listed, but equivalent certs. will be accepted.

3. General requirements required standing is either (a) pass, at one sitting, in all the subs prescribed for complete jr matric, or (b) pass, at 2 or more sittings, in all the subs prescribed for complete jr. matric with an average of at least 60 per cent

4 Specific requirements .

Arts and sci, fine arts Matric subs. Engl, social studies (Canadian hist), maths, a 2nd lang (Latin, French or German), sci (phys., chem or biol), one of, another lang (Latin, French or German), another sci, music, home econ, general shop, art, commercial work, or geog

Interior design (a) Matric subs as for arts and sci. French is the preferred lang other than Engl. (b) Required average . at least 60 per cent.

B. Admission at Senior Matriculation level

1. Cert in terms of which requirements are expressed . no 27 *

2 Other certs listed as acceptable equivalents none listed, but equivalent certs will be accepted.

3 General requirements sr matric or completion of the 1st yr, admits to the 2nd yr of arts and sci, or fine arts. Sr matric, or completion

* See pp 1403-1405

of the 1st yr of arts and sci., admits to the 1st yr of agric., archit., engin., home econ., pharmacy or comm. Full requirement is 5 subs. no advanced standing will be granted to a student who offers fewer than 5 sr. matric subs.

4. Specific requirements

Agric. Matric. subs. Engl., maths, phys., chem.; and one of another lang. (French, German or Latin), biol., hist.

Archit. (a) Matric. subs. Engl., maths, phys., chem., and one of French, German, Latin, Russian. (b) Required standing: an average of at least 60 per cent, and at least 60 per cent in each of Engl., maths and phys.

Arts and sci. Matric. subs. Engl., maths, one of French, German, Latin, and 2 of phys., chem., biol., mod. hist., music, another lang. (Students intending to enter sci. must include both phys. and chem.)

Comm. (a) Matric. subs. Engl., maths, one of French, German, Latin, and 2 of phys., chem., biol., mod. hist., music, another lang. (b) Required average: at least 63 per cent.

Engin. (a) Matric. subs. Engl., maths, phys., chem., and one of French, German, Latin, Russian. (b) Required average: at least 60 per cent.

Fine arts. Matric. subs. Engl., hist. or a lang. other than Engl.; one of phys., chem., biol., and 2 others. 5 sr. matric. subs. must be offered but advanced standing can be given for only 4 because art, the 5th subj. in the 1st yr. of fine arts, is given only at the univ.

Home econ. Matric. subs. Engl., chem., maths, and 2 of: hist., biol., phys., a 2nd lang. other than Engl.

Pharmacy. Matric. subs. Engl., maths, phys.; chem.; and one of French, German, Latin.

C Students from Abroad

Certs are evaluated in terms of the requirements stated above. A placement test in the Engl. lang. is given during the week of registration to all entering students whose native tongue is not Engl.

Hong Kong. Applicants from Hong Kong must present evidence of having reached the matric standard of the Univ. of Hong Kong or an equivalent standard. Those who offer advanced level standing in maths., phys. or chem. will be given sr. matric. credit for not more than 2 of them.

West Indies, Nigeria. Students from these areas must present evidence of having attained a 1st or 2nd class Cambridge Overseas School Cert. or an equivalent standard. Applicants with the Higher School Cert., or the GCE with passes at the advanced level, will be given credit for more than 5 1st-yr. subs. in arts and sci. (i.e. one course-yr.).

MEMORIAL, NEWFOUNDLAND

A Admission at Junior Matriculation level

1 Cert in terms of which requirements are expressed: no. 3.*

2 Other certs listed as acceptable equivalents none listed, but equivalent certs will be accepted.

3. General requirements: minimum age, 16 yrs.

4. Specific requirements: *arts, educ., sci., comm.* (a) Matric. subs. Engl. (lang., lit.), maths (algebra, geom. & trig.), hist.; one of: French, German, Greek, Latin, Spanish, one of biol., chem., gen. sci., phys. (b) Required average: at least 55 per cent.

B Admission at Senior Matriculation level

No published regns.

C Students from Abroad

Admission is dealt with on an individual basis, in terms of the requirements stated above.

MONTREAL

A Admission to the second stage ('cours collégial') of the Arts programme in affiliated 'collèges classiques'

1 Cert in terms of which requirements are expressed: no. 11.*

2. General requirement: completion of the *cours secondaire* and success in the *immatriculation* exam, no. 11.*

B Admission to certain degree courses in the University proper by a certificate of completion of secondary school

1 Certs in terms of which requirements are expressed: nos. 11, 14, 16.*

2 Other certs listed as acceptable equivalents: equivalent certs. will be accepted.

3. General requirements: (a) birth cert.; (b) cert. of vacation; (c) 3 copies of a recent photograph; (d) cert. of good conduct signed by a recognized authority (collegiate, univ. or religious); (e) complete record of prerequisite studies (in French, Engl. or Latin or translated into one of these langs.). In most cases admission may be granted to a candidate presenting the *baccalauréat ès arts*. One presenting a lesser qualif. may be required to take an entrance exam set by the univ.

4. Specific requirements

Arts (course for adults offered by the univ.), *comm.* (Ecole des Hautes Etudes Commerciales), *music*. Cert no. 16.*

Pedagogy. Cert no. 11.*

Sci., engin. (Ecole Polytechnique), *nutrition*,

* See pp. 1403-1405

vet. med (École de Médecine Vétérinaire) Cert no. 14 or no 16 (*scientifique*)*

Social sci Cert. no 14 or no 16 (*spéciale*)*

5 Special courses for adults the extension dept. of the univ. offers special evening and summer courses for adults in arts (*see above*)
Minimum age for admission : 20 yrs

C. Students from Abroad

Certs are evaluated on the basis of the requirements stated above

MOUNT ALLISON

A Admission at Junior Matriculation level

1 Cert in terms of which requirements are expressed no 9*

2 Other certs listed as acceptable equivalents nos 1, 3, 4 and 5* Other equivalent certs will also be accepted

3 General requirements (a) to be admitted to a regular course leading to a degree a student must have jr matric standing with at least 50 per cent in each of 7 subs and an average of at least 60 per cent, (b) students, especially those of mature yrs, who cannot meet these requirements may apply to the cttee on admissions for a ruling, (c) the univ holds matric exams in Sept

4 Specific requirements

Arts, sci, comm, secretarial sci, fine arts, engin, home econ Matric subs: Engl; algebra, geom., a lang. other than Engl., and 3 options chosen from chem., phys., biol., geol., geog., hist., econ., music, trig, and not more than 2 other lang subs. Another suby approved by the cttee on admissions may be offered in place of one of the electives named above

Music As for arts, but with music as one of the chosen options The entrance requirement in music is grade VI standing in a practical suby and a knowledge of the rudiments of music

5 Mature matric *see* 3 (b) above.

B Admission at Senior Matriculation level

1 Cert in terms of which requirements are expressed, no specific cert.

2 Other certs. listed as acceptable equivalents no. 6* Other equivalent certs. will also be accepted.

3 General requirements a student who has completed jr matric or the equivalent and has a mark of 50 per cent or more in certain subs of sr. matric. standing, or the equivalent, will get credit for corresponding 1st yr subs up to the number of five. Conditions are attached, however, to the granting of such credits in maths, chem. and phys

4. Specific requirements

Engin. Students who have completed sr matric in Engl., and French or hist, and have 70

* See pp. 1403-1405

§ Electives may be chosen from the following. hist (anc, mediev, mod., Canadian, Engl or US), sci. (phys, chem, bot. or biol), econ, algebra, geom., or trig, where not already required

per cent. or over in maths, phys, and chem., may enter the 2nd yr of the engin course provided that work completed in phys and chem. is considered adequate.

Teaching Students with complete jr. matric. who hold a 1st class licence obtained after one yr. in an approved teacher-trg. instn with an average mark of 65 per cent will be allowed to proceed to the degree of bachelor of teaching.

C Students from Abroad

Certs are evaluated in terms of the requirements stated above

USA A satisfactory transcript from a high school of recognized standing and a statement from the principal, recommending the student for admission to univ. (jr matric level).

U.K. and West Indies. The G.C.E., or equivalent, is accepted if the required subs are included and is equated to jr or sr matric depending on evaluation of the individual cert and the conditions under which it was obtained. Credit in a 1st-yr suby is allowed for any one suby at advanced level for the G.C.E.

Hong Kong Univ of Hong Kong matric., or equivalent, is required for admission.

Europe European certs which admit the student to a European univ are equated to sr matric

MOUNT SAINT VINCENT COLLEGE

A Admission at Junior Matriculation level

1 Cert. in terms of which requirements are expressed no 7*

2 Other certs. listed as acceptable equivalents equivalent certs will be accepted.

3 General requirements (a) admission restricted to women, (b) every candidate for entrance is required to present (1) an applicn. filled out by the student, (2) satisfactory references, business and social, and (3) an official transcript of her high school record, (c) all candidates for a degree must satisfy the requirement for matric, either by presenting acceptable certs or by passing matric exams

4 Specific requirements

Arts, elementary educn. Matric. subs: Engl.; Latin or Greek, algebra, geom.; hist; a mod. lang other than Engl.; one elective,§

Music Matric subs: Engl., French; hist., algebra and geom., 2 electives§

Sci (pure) Matric subs. Engl., algebra, geom., hist., a mod lang other than Engl., 2 electives§, one of them from the field of sci.

Home econ Matric. subs: Engl.; a mod lang. other than Engl.; hist; algebra and geom.; a sci, one elective§

Secretarial studies Matric subs Engl.; a mod. lang other than Engl.; hist; algebra and geom., 2 electives.§

Nursing Matric subys Engl, algebra, geom, a lang other than Engl, a sci, 2 electives chosen from hist, phys, chem, biol, econ, trig

B Admission at Senior Matriculation level

1. Cert in terms of which requirements are expressed no 8 *

2' Other certs listed as acceptable equivalents none listed, but equivalent certs will be accepted

3 General requirements a student who has completed jr matric, and who holds a cert indicating that she has done work in advance of that standard, may be allowed to take a degree in 3 yrs

C Students from Abroad

Certs are evaluated in terms of the requirements stated above

NEW BRUNSWICK

A Admission at Junior Matriculation level

1 Cert in terms of which requirements are expressed no 9 *

2 Other certs listed as acceptable equivalents none listed, but equivalent certs will be accepted

3 General requirements (a) the following subys of New Brunswick Jr Matric, or its equivalent, are required for entrance to the 1st yr at the univ algebra, geom, Engl, and 4 of biol, chem, French, hist, Latin, phys, sr maths (trig), (b) required standing 50 per cent in each suby and an average of at least 60 per cent

4 Specific requirements

Arts General requirements as in A 3, preferably incl French

Bus admin, phys educ General requirements as in A 3

Sci, engin, for General requirements as in A 3, preferably incl sr maths (trig), phys and chem

B Admission at Senior Matriculation level

1 Cert in terms of which requirements are expressed successful completion of grade XIII in a New Brunswick high school approved by the univ for this purpose

2 Other certs listed as acceptable equivalents no 2 *, other equivalent certs will be accepted

3 General requirements (a) candidates will be accepted for entrance to the 2nd yr of courses other than that leading to the degree of bachelor of teaching if they have completed the freshman yr, or grade XIII in a New Brunswick high school approved by the univ for this purpose, or present equivalent certs of another province or univ, (b) the univ conducts a sr matric exam in Sept, (c) required standing (i) New Brunswick grade XIII—at least 50 per cent in each suby, (2) sr matric outside New Brunswick—an average of at least 60 per cent and at least

50 per cent in each suby, (3) cert no 2*—an average of at least 75 per cent and at least 50 per cent in each suby

4 Specific requirements *teaching* In addition to the jr matric requirements a 1st class licence obtained after 1 yr in a teacher-trg instn, with an average grade of 65 per cent, is required for admission to the bachelor of teaching course

C Students from Abroad

Certs are evaluated on the basis of the requirements stated above

NOVA SCOTIA AGRICULTURAL COLLEGE

A Admission at Junior Matriculation level

1 Cert in terms of which requirements are expressed no 7 *

2 Other certs listed as acceptable equivalents nos 3, 5 and 9 *

3 General requirements all candidates for admission to the degree course in agric must (a)

be at least 16 yrs of age, (b) be of good moral character, (c) present a med cert dated not more than 30 days previous to registration, (d) have at least one season's farm experience, (e) have an acceptable matric cert

4 Specific requirements *agrie* (a) Matric subys Engl (2 papers), algebra, geom, 2 of chem, phys, biol, 2 of hist, econ, a lang other than Engl, (b) Required average at least 60 per cent

B Admission at Senior Matriculation level

1 Cert in terms of which requirements are expressed no 8 *

2 Other certs listed as acceptable equivalents none listed, but equivalent certs will be accepted

3 General requirements students with at least 60 per cent in sr matric Engl will be granted an exemption from the 1st-yr class in Engl. No other exemptions will be granted for sr matric standing

4 Specific requirements candidates who look forward to completing their course at the Ontario Agric Coll should possess a cert. at the sr matric level, with standing in Engl, algebra, trig, chem, phys, and a lang. other than Engl

C Students from Abroad

Certs are evaluated in terms of the requirements stated above. Candidates presenting the G C E must have standing at the ordinary level (at least) in the subjects listed in A 4 above.

NOVA SCOTIA TECHNICAL COLLEGE

Students are admitted only by transfer from other colls and univs

Archit. After completion of 2 yrs of engin studies beyond the jr matric level

Engin. After completion of 3 yrs of engin studies beyond the jr matric level

OTTAWA

A Admission at Junior Matriculation level

1 Cert. in terms of which requirements are expressed no 24 *

2 Other certs listed as acceptable equivalents nos 3, 5, 7, 9, 11, 15 (*scientifique*), 20, 26, 30 *; completion of grade XI in Alberta or Saskatchewan Other equivalent certs. will also be accepted

3 General requirements (a) applications for admission must be received by Sept 1, (b) at the time of application each candidate must ensure submission to the registrar of an official transcript of academic record and a letter of recommendation, and with his applcn he must pay an applcn fee of \$5 (not refundable)

4 Specific requirements

Arts, comm, educn, home econ, phys educn, and soc, econ, and pol sci (a) Matric subjs. Engl, French, hist (anc & mod), maths (algebra and geom), and one of Greek, Latin, German, Spanish, Italian, sci (phys and chem), geog, agric (b) Required average at least 60 per cent (c) Candidates for honrs courses must have obtained at least 60 per cent in the subjs related to the honrs courses they plan to enter

Nursing Matric subjs Engl, French, maths (algebra and geom), sci (phys and chem), hist (anc & mod), and one of Latin, Spanish, Italian, commercial work, household sci, art, music, agric

Sci, engin (a) Matric subjs French, Engl, maths (algebra and geom), sci (phys and chem), hist (anc & mod), and one of Latin, German, Spanish, Italian (b) Required standing at least 60 per cent in each of the maths and sci subjs and an over-all average of at least 60 per cent

5 Mature matriculation candidates 21 yrs. of age or over who have not obtained matric standing but have, through personal study, acquired an educn deemed sufficient, may be admitted conditionally If they successfully pass the 1st 5 exams they may pursue their studies on the basis of this 'adult' matric

B Admission at Senior Matriculation level

1 Cert. in terms of which requirements are expressed no 25 *

2 Other certs listed as acceptable equivalents nos. 6, 8, 16, 23, 27, 28, 29, 31 *

3 General requirements as outlined in A 3 above Note, however, that applns for admission to the fac of med. must be received by Aug 1.

4 Specific requirements.

Arts, comm, educn, home econ, phys educn, social sci Normally candidates with cert no 25 * or the equivalent will be admitted to the 2nd yr providing they have an average of at least 60 per cent

Med. For admission to the 1st pre-med. yr the candidate should have cert no 25 * or the equivalent with honrs. standing in French (composition & lit.), Engl (composition & lit.), maths (2 of algebra, geom, trig), chem, phys, and one of hist, bot, zool, a 3rd maths paper, a 3rd lang

Sci, engin Completion of the 1st yr in the fac of sci. of the univ, or presentation of cert no 25 * or the equivalent with standing in Engl. and French, and an average of at least 60 per cent in each of chem, phys and maths (algebra, geom and trig) A candidate with a *baccalauréat* (sci option) will be admitted

C Students from Abroad

Certs are evaluated on the basis of the requirements stated above

QUEEN'S

A Admission at Junior Matriculation level

None, but jr. matric as well as sr. matric is required for admission to applied sci. and nursing

1 Cert. in terms of which requirements are expressed no 24 *

2 Other certs listed as acceptable equivalents nos 3, 5, 7, 9, 20, 22, 23, 26, 30 *, and completion of grade XI in Alberta or Saskatchewan

B Admission at Senior Matriculation level

1 Cert. in terms of which requirements are expressed no 25 *

2 Other certs listed as acceptable equivalents nos. 6, 8, 21, 23, 27, 28, 29, 31 * Other equivalent certs will also be accepted See also C below

3 General requirements certs nos 24 and 25 *, or the equivalent, with required standing in 5 subjects. Grade XIII (cert no 25 *) exams. are held in the following subjs Latin, Engl., hist, maths (algebra, geom, trig.), Greek, German, French, Spanish, Italian, music, phys, chem, biol and geog. The pass standard is 50 per cent. in each paper

4 Specific requirements

Arts and sci (a) Matric. subjs Engl; Latin or maths. (at least 2 papers); a lang other than Engl, which may be Latin if maths is offered, and 2 other subjs (b) Required average at least 60 per cent. (c) Candidates offering only 4 of the subjs specified may be admitted providing they have at least and class honrs standing on 3 of them. These students are 'conditioned' in the subj in which they lack standing and they may remove this condition by writing off the grade

* See pp. 1403-1405

XIII paper or papers in the subj concerned or by taking an extra course at the univ. (d) Candidates for admission to honours courses should offer the 2 subs. which will be the major and minor for the degree of BA or BSc (hons) and 3 others chosen from the compulsory courses on the degree programme they wish to follow

Appl sci (engin) (a) Jr matric standing must include Engl and another lang (b) Sr matric subs and minimum standing required: Engl; maths (algebra, geom., incl analytical geom. and trig., with an average of at least 60 per cent.), phys. (with at least 60 per cent.), chem. (with at least 60 per cent.), and one of a lang other than Engl, hist, biol (bot and zool), geog. (c) Candidates who have had practical engin. trig. or who are otherwise specially qualified for an engin. course may be admitted at the discretion of the fac, on conditions to be determined in each case, even though they do not present precisely the subs. named above

Comm and bus admin. (a) Matric subs: Engl, maths (3 papers) or Latin, a lang other than Engl, which may be Latin if maths is offered, and 2 other subs. (b) Required average at least 60 per cent. (c) A student may enter with 4 subs. under conditions similar to those outlined for arts above. (d) Students from high schools of comm. may offer grade XIII standing in maths of investment in place of algebra as part of the requirement in maths

Med. Matric. subs. (a min. of 9 papers) for admission to the 1st pre-med yr: Engl; maths (2 of algebra, geom., trig., preferably incl trig.), one of Latin, Greek, French, German, Italian, Spanish, chem., phys., one of bot, zool, hist, a maths paper not already chosen, another lang, geog.

Nursing (a) Jr matric standing must include phys. (b) Sr matric subs: Engl, chem, biol and 2 other subs. (c) Required average at least 60 per cent. (d) When possible a personal interview with the dir. of the school is arranged

Phys and health educn. (a) Matric subs: Engl, maths (at least 2 papers, one of which should be trig.), a lang other than Engl, chem; phys. (b) Required average at least 60 per cent

5. Mature matriculation unmatriculated candidates for admission to extra-mural instrcn. who are over 23 yrs. of age, or alternatively, if 21 and if they have been out of school for at least 2 yrs, may be admitted 'conditioned' in the subs. of matric which they lack, if they satisfy the bd. of studies that they can undertake univ. work with profit. See also note (c) under appl sci

C Students from Abroad

Certs are evaluated in terms of the requirements stated above

UK Certs considered equivalent to no. 25* include the Scottish Leaving Cert, and the

GCE in at least 5 subs. of which 2 must be at the advanced level.

ROYAL MILITARY COLLEGE OF CANADA

A Admission at Junior Matriculation level

None, but those with jr matric. standing may be admitted to another of the 3 Canadian Services Colls, Collège Militaire Royal de Saint Jean, in the 'preparatory yr.'

B Admission at Senior Matriculation level

1 Cert in terms of which requirements are expressed no particular cert., students are admitted from all provinces of Canada.

2 Other certs listed as acceptable equivalents see above

3 General requirements. (a) sex—male, (b) citizenship—Canadian citizen, or British subject resident in Canada with status of a landed immigrant, (c) marital status—must be single and remain so until commissioned, (d) health—must be medically fit for enrolment in the Service of his choice, (e) age—on 1st Jan of the yr of entrance the candidate must have reached his 16th birthday but not his 21st. Consent of parents or guardian is required if he is under 18.

4 Specific requirements. arts, engin., sci. Matric subs: Engl, French or hist (preferably French), phys., chem; maths (algebra, geom. and trig.)

C Students from Abroad

Students from abroad must meet all requirements, including those of citizenship stated in B 3 (b)

UK Students presenting the GCE should offer ordinary level standing in Engl; French or hist; and chem; and advanced level standing in maths and phys

SAINT DUNSTAN'S

A Admission at Junior Matriculation level

1 Cert in terms of which requirements are expressed no. 4*

2 Other certs listed as acceptable equivalents none listed, but equivalent certs will be accepted. Those presenting 'equivalent' certs must meet specific requirements listed in 4 below

3 General requirements. successful completion of the high school course in Prince Edward Island (cert no. 4*) or the grade XII cert of St. Dunstan's High School

4 Specific requirements (applicable to those who offer certs other than those mentioned in para 3 above):

Arts, Matric subs: Engl, Latin, French, hist., algebra, geom., and phys. or chem or biol.

Sci. Matric. subs: Engl, French, hist., algebra, geom., phys and chem

* See pp 1403-1405

Comm. Matric. subjs. Engl., French, hist., algebra, geom.; and 2 of Latin, phys., chem., biol.

Students who offer credits in different but equivalent subjs. will be accepted but may be required to do remedial work in order to qualify for admission to specific univ. courses required by their programme.

B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed. no. 2.*

2. Other certs. listed as acceptable equivalents none listed, but equivalent certs. will be accepted.

3. General requirements. credit may be given for subjs. of the freshman yr., except for phys., chem., econ.

C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above. Students from colle. or high schools in the Orient are required to present evidence of successful completion of 'lower level form six' or the equivalent for admission at the jr. matric. level.

SAINT FRANCIS XAVIER

A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed. no. 7.*

2. Other certs. listed as acceptable equivalents nos. 1, 5, 9, 20, 24.* Other equivalent certs. will also be accepted.

3. General requirements: (a) each candidate for admission is requested to present a letter of recommendation from his pastor or from some other person known to the univ. authorities; (b) a candidate for admission to the freshman yr. must either pass the univ. matric. exams (given in Sept.) or present a cert. showing that he has sufficient academic preparation; (c) prelim. applic. for admission should be made before Aug. 1.

4. Specific requirements: *arts, comm, engin, home econ., sci.* (a) Matric. subjs. Engl., a mod. lang.; hist., algebra; geom., 2 of Latin, phys., chem., biol., another hist., another lang. (b) Required standing: an average of at least 60 per cent. with a minimum of 50 per cent. in each subj. (c) A student not sufficiently prepared to follow a univ. course in any subj. will be required to take a preparatory course in that subj. 5. Mature matriculation: students of mature age may be admitted as special students on the basis of a satisfactory score on a coll. aptitude test. Satisfactory standing in an assigned course of studies will fulfil matric. requirements for degree candidacy.

B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed. no. 8.*

2. Other certs. listed as acceptable equivalents none listed, but equivalent certs. will be accepted.

3. General requirements: (a) sec. A 3 (a) above, (b) unless a student has made an excellent record in his grade XII work, he will require 4 yrs. to complete a univ. degree course.

4. Specific requirements

Arts, sci., etc. Credit may be given for a maximum of 5½ subjs. (32 semester hours) of the freshman yr., but conditions are attached to the granting of such credit for maths and sci. subjs.

Nursing Jr. matric. as for arts or sci., plus a sr. matric. cert. no. 8* or the equivalent.

C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

SAINT JOSEPH'S

A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed. no. 10.*

2. Other certs. listed as acceptable equivalents no. 9.* Other equivalent certs. will also be accepted.

3. General requirements: applic. for admission must be made before Aug. 15 and must be accompanied by (a) an official and dated transcript of academic record, (b) a cert. of good character and (c) a cert. of good health from a physician.

4. Specific requirements.

Arts. Matric. subjs. Engl., French, Latin, algebra, geom., hist., phys., chem.

Sci., engin., comm. As for arts, except that Latin is not required.

Music. Cert. no. 9*, plus grade IX standing in music.

Home econ. Cert. no. 9*, or an equivalent cert.

B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed. no specific cert.

2. Other certs. listed as acceptable equivalents: no. 16.*

4. Specific requirements: *comm.* Candidates holding cert. no. 16 (*scientific*) * will be admitted to the 2nd yr.

C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

* See pp. 1403-1405

SAINT MARY'S

A Admission at Junior Matriculation level

- 1 Cert in terms of which requirements are expressed. no 7*
- 2 Other certs listed as acceptable equivalents nos 1, 5 and 9* Other equivalent certs will also be accepted
- 3 General requirements (a) applicant for admission must be accompanied by (1) a testimonial of good character, (2) official matric cert., (3) a recent photograph (passport size), (4) a \$3 application fee if the applicant is not a resident of Canada, (5) where necessary, a cert stating that the student's mastery of Engl. is such as to enable him to follow courses at univ. level; (b) to be admitted to the univ as an undergrad a candidate must offer credit in 7 matric subs., (c) for admission to any of the courses for which only one lang other than Engl is required, the jr. matric standing must be 50 per cent. in each subj with a general average of 60 per cent
- 4 Specific requirements.

Arts Matric subs. Engl, Latin; French, algebra; geom., and 2 of: chem, phys, biol, hist, econ, another lang

Comm Matric subs. Engl, French, German or Spanish; algebra, geom., and 3 of: chem, phys, biol, hist, econ, another lang

Sci Matric subs. Engl, French or German, algebra, geom., and 3 of: chem, phys., biol, hist, econ, another lang

Engn Matric subs. Engl, French or another lang other than Engl; algebra, geom.; chem, phys., and one of: biol, trig, hist, econ, another lang

B Admission at Senior Matriculation level

- 1 Cert in terms of which requirements are expressed no 8*
- 2 Other certs listed as acceptable equivalents nos 2 and 6* and the cert of the 1st yr of Memorial Univ of Newfoundland Other equivalent certs will also be accepted
- 3 General requirements credits may be given for a max. of 5 subs. of the 1st yr, but in all subs a mark of 60 per cent is required and further conditions are attached to the granting of such credit in maths and sci subs.

C. Students from Abroad

Certs* are evaluated in terms of the requirements stated above Note requirement of cert. of facility in the Engl. lang See A 3 above

SASKATCHEWAN

A Admission at Junior Matriculation level

None, but those with jr matric standing may be admitted to the (sr) matric. course at the Regina campus of the univ.

B Admission at Senior Matriculation level

- 1 Cert in terms of which requirements are expressed no 28*
- 2 Other certs listed as acceptable equivalents cert. of the matric course at the Regina campus of the univ Other equivalent certs will also be accepted
- 3 General requirements (a) minimum age, 16 yrs, (b) satisfactory record in six subs (see 4 below) (1) cert no 28* with an average of 60 per cent, (2) an equivalent cert, or (3) the matric course at the Regina campus of the univ. (c) for combined courses in two colls (facs) the admission requirements of both colls must be met
- 4 Specific requirements

Agrie Matric subs. (1) Engl (lit & composition), (2) social studies (hist), (3) maths (algebra, combined geom and trig), (4) chem, (5) biol or phys., (6) one other lang, hist of Engl lit, econ, an addnl sci (biol, phys., or geol), art, or agrie

Arts and sci Matric subs. (1) Engl (lit & composition), (2) another lang., (3) social studies (hist), (4) maths (algebra, combined geom and trig) or Latin (students intending to take a lit course should offer Latin, those intending to take a scientific course should offer maths), (5) a sci (biol, chem or phys); (6) one other lang, a sci (incl home econ, geol), music, econ., hist of Engl lit, or art

Comm Matric subs. (1) Engl (lit & composition), (2) another lang.; (3) social studies (hist.), (4) maths (algebra, combined geom and trig), (5) a sci (biol, chem or phys.), (6) one other lang, a sci, home econ, music, econ., hist of Engl lit, or art

Educn Cert no 28* or its equivalent with an average of at least 60 per cent Applicants should note, however, that certain academic classes may be selected for the BEEd curriculum only if they are sequent to subs studied in grade XII

Engn Matric subs. (1) Engl (lit & composition); (2) social studies (hist); (3) maths (algebra, combined geom and trig), (4) another lang., (5) chem, (6) phys

Home econ Matric subs. (1) Engl (lit & composition), (2) social studies (hist), (3) maths (algebra, combined geom and trig), (4) another lang., (5) chem., (6) one other lang, a 2nd sci (incl geol), home econ, hist of Engl lit, or art

Nursing Matric subs. (1) Engl (lit & composition), (2) social studies (hist), (3) maths (algebra, combined geom and trig.), (4) another lang., (5) chem; (6) one other lang, biol, phys (preferred), geol., or home econ

Pharmacy Matric subs. (1) Engl (lit & composition), (2) social studies (hist), (3) maths (algebra, combined geom and trig), (4) another lang., (5) chem; (6) one other lang, phys, geol., another lang, hist. of Engl lit, art, music, home econ, or econ. (phys. will be required of students entering in 1963).

* See pp 1403-1405

C. Students from Abroad

Certs are evaluated in terms of the requirements stated above

U.K. Candidates offering the G.C.E. should have passes in 5 suitable subjs (other than religious knowledge), 2 or 3 at the ordinary level and 2 or 3 at the advanced level, depending on the course of study to be followed at the univ. The 5 subjs must in all cases include Engl, maths and a sci. (chem., phys. or biol.).

For admission to arts and sci., comm., engin., home econ., nursing and pharmacy the 5 subjs should include a lang. other than Engl. (French, German or Latin) at the advanced level. For admission to agric., home econ. and pharmacy the 5 subjs should include chem. at the advanced level. For admission to engin. and nursing the 5 subjs should include chem. and phys. at the advanced level. For admission to agric., a scientific course in arts and sci., comm. and engin., the 5 subjs should include maths at the advanced level. No special papers, other than those mentioned in the previous para., are required for admission to educa.

Comparable regns. govern those presenting the Higher School Cert. for passes at the ordinary level, G.C.E., read passes at the School Cert. level, for passes at the advanced level, G.C.E., read passes at the Higher School Cert. level.

Hong Kong. (a) The minimum requirement is passes in 5 subjs of the Matric. Exam. of the Univ. of Hong Kong, 2 at the ordinary level and 3 at the advanced level. The 5 subjs must in all cases include Engl., maths and a sci. (chem., phys. or biol.) and specific requirements are as outlined above for candidates presenting the G.C.E. (b) A confidential letter of recommendation from the applicant's school principal also is required and must be sent by the principal direct to the registrar, Univ. of Saskatchewan. (c) Each applicant for admission must report to the Canadian Dept. of Citizenship and Immigration in Hong Kong to take a test of his knowledge of Engl. and have that dept. forward a cert. to the registrar, Univ. of Saskatchewan. The applicant also may be required to take a test of his knowledge of Engl. after his arrival at the univ. and if it is not satisfactory he will not be permitted to register.

SHERBROOKE

A. Admission to the second stage ('cours collégial') of the Arts programme in affiliated 'collèges classiques' and to the 'collège universitaire'.

1 Cert. in terms of which requirements are expressed: no. 11.*

2. Other certs. listed as acceptable equivalents for admission to the *collège universitaire*. nos. 13, 15.*

3. General requirements (a) *collèges classiques* completion of the *cours secondaire* and success in the *immatriculation exam*, no. 11.*

(b) *collège universitaire*. as for (a) above, or presentation of cert. no. 13 or no. 15.* In addition, all candidates for admission to the *collège universitaire* must take the admission exam of the *collège*. A candidate for admission to the *collège universitaire* who has not cert. no. 11, 13 or 15* must take the admission exam. of the *collège*.

B. Admission to certain degree courses in the University proper by a certificate of completion of secondary school

1 Certs in terms of which requirements are expressed, nos. 11, 13, 16.*

2 Other certs. listed as acceptable equivalents equivalent certs. will be accepted

3. General requirements (a) birth cert.; (b) cert. of vaccination; (c) 4 copies of a recent photograph; (d) cert. of good conduct signed by a recognized authority (collegiate, univ. or religious); (e) complete record of the last 4 yrs. of prerequisite studies. In all cases admission may be granted to a candidate presenting the *baccalauréat ès arts* (often with advanced standing). One presenting a lesser qualif. may be required to take an entrance exam. set by the univ.

4. Specific requirements

Arts (course for adults offered by the univ.)

Cert. nos. 11, 13 or 15*, or the equivalent

Comm. Cert. no. 11, or no. 15 (*science-mathématiques ou science-lettres*)*

Dom. sci. As for comm.

Engin. Cert. nos. 14, 16 or 17.*

Music Cert. nos. 11 or 13*, plus dipl. in music

Pedagogy Cert. no. 12* or 2 yrs. of the course in pedagogy leading to *Brevet 'A'*

Sci. Cert. nos. 14, 16 (*scientifique*) or 17.*

5. Special course for adults the fac. of arts offers a special course for adults, in arts (see above) Minimum age for admission: 20 yrs.

C. Students from Abroad

Certs are evaluated on the basis of the requirements stated above

SIR GEORGE WILLIAMS

A. Admission at Junior Matriculation level

1 Cert. in terms of which requirements are expressed, no. 20.*

2 Other certs. listed as acceptable equivalents nos. 3, 4, 5, 7, 9, 12, 18, 22, 26, 30*, the graduation dipl. of Sir George Williams High School. Other equivalent certs. will also be accepted, but students will not be accepted at the jr. matric. level on the basis of Ontario grade XII (cert. no. 24*) nor on completion of grade XI in Alberta or Saskatchewan. However, students presenting Ontario grade XIII (cert. no. 25*), Alberta grade XII (cert. no. 29*) or Saskatchewan grade XII (cert. no. 28*) may be admitted at the sr. matric. level.

* See pp. 1403-1405

3 General requirements: in addn to the specific requirements listed below, students entering the day div must also present a satisfactory report from a high school principal. The coll. may at its discretion require certain students to take prescribed tests. Students whose mother tongue is not Engl must show, on certain tests administered by the coll., that they have sufficient knowledge of the Engl lang to be able to follow a coll programme conducted in that lang

4 Specific requirements.

Arts. Cert no 20*, or the equivalent, with an average of at least 60 per cent on 10 papers, incl Engl lit & composition

Comm. As for arts, but incl Engl lit. & composition, algebra, geom and at least one sci

Sci. As for arts, but incl Engl lit & composition, algebra, geom and at least one sci

5 Mature matriculation persons over 21 yrs of age who have not satisfied the technical requirements for high school graduation but who have the capacity to do coll work are admitted as 'conditioned' undergrads in arts, comm or sci (but not engin) by fulfilling the special entrance requirements for persons over 21 yrs. of age, details of which may be obtained from the registrar

B Admission at Senior Matriculation level

1 Cert in terms of which requirements are expressed no 21*

2 Other certs listed as acceptable equivalents none listed, but equivalent certs will be accepted.

4 Specific requirements.

Arts, comm, sci. Students presenting sr matric certs. will, in general, be given credit in the 1st yr, course for course, for subs completed. Owing to the special requirements of the curricula of the coll. it is not possible for a student to obtain complete 1st-yr standing in this way. Deficiencies may be made up, however, during the remainder of the course provided that they are not too great and, further, that the student does the extra work necessary

Engin. Students must have completed the 1st yr of sci or present cert no 21* or its equivalent with the following subs: Engl (lit & composition), maths (algebra, trig, analytic geom.), general phys; inorg chem., and one other subj

* C Students from Abroad

Certs are evaluated on the basis of the requirements stated above

USA. These certs are treated as at the jr. matric level. The Coll Entrance Bd Cert, the Bd of Regents Cert., State of New York, the graduation dipl of accredited high schools

UK. Candidates who have 6 subs on the GCE at the ordinary level are admitted to the 1st yr of arts, sci or comm. Credit towards the degree is given for subs passed at the advanced level.

TORONTO

A Admission at Junior Matriculation level

None

B Admission at Senior Matriculation level

1 Cert in terms of which requirements are expressed no 25*

2 Other certs listed as acceptable equivalents nos. 6, 8, 19, 21, 23, 27, 28, 29, 31.* Other equivalent certs will also be accepted. See also C below

3 General requirements

(a) A candidate for admission to the 1st yr must present cert no 25* or an equivalent cert, showing standing in one subj from each of the following 5 groups, with an average of at least 60 per cent. in the 9 required papers: (1) Engl; (2) Latin, maths (2 papers), (3) French, German, Greek, Italian, Latin, Russian, Spanish; (4) a lang other than Engl, 2 of algebra, geom, trig, bot., chem., phys., zool., (5) hist., music, a lang other than Engl (2 papers), maths (one paper), sci (one paper), geom

(b) *Facility in the Engl lang.* All candidates are required to submit evidence, acceptable to the univ., of facility in the Engl lang. Submission of one of the following will satisfy this requirement: (1) standing in Engl comp. (see B 3 (a) above) on cert. no 25* or other certs recognized by the univ., (2) the cert. of proficiency in Engl issued by the Univs of Cambridge or Michigan, or satisfactory achievement in the Univ of Michigan English lang test (Details regarding these tests, including the arrangements for taking the Univ. of Michigan test in Toronto, may be secured from the registrar, Univ. of Toronto) The univ. is also prepared to consider other evidence that may be submitted

4. Specific requirements

Agric. (Ontario Agric. Coll.). General requirements as in B 3 above, incl maths (any 2 papers), phys. and chem

Appl sci and engin. General requirements as in B 3 above, incl maths (3 papers), phys and chem with an over-all average of 64 per cent. in the 9 required papers. For entry to the engin phys course candidates must have an over-all average of at least 70 per cent.

Archit. General requirements as in B 3 above, incl maths. (3 papers), phys. and chem

Arts. General requirements as in B 3 above, plus specific requirements regarding choice of subs and required standing, varying for the honour courses

Comm. and finance. General requirements as in B 3 above, incl. maths. (3 papers) Required average on 9 papers: 64 per cent

Dent. General requirements as in B 3 above, incl. maths. (2 papers), phys and chem. (Note: 3 maths. may be required in the session 1963-64.)

* See pp. 1403-1405

For General requirements as in B 3 above, incl maths. (3 papers), phys. and chem

Household sci Univ of Toronto general requirements as in B 3 above, incl maths (any 2 papers) and sci (2 papers), Macdonald Inst as for Univ of Toronto except that sci papers must be chem and one of bot, phys., zool

Med. General requirements as in B 3 above, incl maths (3 papers), phys and chem Jr matric. standing in Latin is recommended

Mus. (a) 4 subs. (exclusive of music) with an average of 60 per cent, incl Engl, Latin or maths (2 papers); a lang other than Engl if Latin is not offered (b) Music requirements candidates will be required to pass an entrance exam or present one of the following sets of Royal Conservatory of Music of Toronto certs (or equivalent certs.). (1) theory, grade II theory and grade III harmony; (2) performance Ontario grade XIII music with R.C.M.T. grade VI piano, or R.C.M.T. grade VI (practical) in singing or an instrument with grade VI piano, or R.C.M.T. grade VIII (practical) in piano or organ, or R.C.M.T. grade VIII (practical) in singing or an instrument

Nursing General requirements as in B 3 above, preferably incl chem. and zool

Pharmacy As for dent

Phys and health educn General requirements as in B 3 above, preferably incl chem and phys

Sci (pure) General requirements as in B 3 above, incl maths (3 papers) and sci (2 papers), plus specific requirements regarding choice of subs. and required standing, varying for the honour courses

Vet med. (Ontario Vet Coll.). As for agric

C Students from Abroad

(a) Certs. are evaluated on the basis of the requirements stated above

U.S.A. A U.S. high school graduation dipl will not admit to any course 1st yr coll. credits (a minimum of 30 semester hrs) in the required subs from approved institutions will be accepted as the equivalent of Ontario grade XIII (cert no. 25*) It is regretted that consideration cannot be given to applicants for admission to the facs of med. and dent

U.K. G.C.E. showing 5 subs, of which at least 2 must be passed at advanced level, or 4 subs, of which at least 3 must be passed at advanced level Most arts courses require standing in Latin or maths, and a lang. other than Engl.; for sci or engin advanced level standing is required in 2 of: maths., phys., chem

West Indies. G.C.E., or School or Higher School Certs on the same basis as G.C.E. Credits on the School Cert are accepted as ordinary level passes in the G.C.E.; subsidiary passes in the Higher School Cert as ordinary level passes in the G.C.E., and principal or

main subj passes on the Higher School Cert as advanced level passes in the G.C.E.

Hong Kong G.C.E. as above, or Univ. of Hong Kong Matric Cert on the same basis as G.C.E.

(b) Note requirement of cert of facility in the Engl lang See B 3 (b) above

(c) A student coming directly from another country must give satisfactory evidence of ability to meet costs of tuition, bd and room, books and incidentals

WESTERN ONTARIO

A. Admission at Junior Matriculation level

None, but students from outside the Province of Ontario may enter the 'prelim yr.' at affiliated colls (Huron Coll, Coll of Christ the King and Ursuline Coll) at the jr matric level and in that yr. prepare for admission to the univ at the sr matric level

1 Cert in terms of which requirements are expressed no 24*

2. Other certs listed as acceptable equivalents none listed, but equivalent certs. will be accepted

3 General requirements all candidates who apply with less than 9 papers in grade XIII (cert no 25*) and who have not passed in 6 papers (3 complete subs) of grade XIII with an average of 60 per cent (a) must have an average of 60 per cent in grade XII (cert no 24*) and (b) must take the entire prelim. yr with no advance credit except in a subj in which the papers average at least 66 per cent

4 Specific requirements (a) matric. subs.: Engl; hist; Latin or maths., one of Latin, Greek, French, Spanish, Italian, German, and one of maths, sci, agric, music, geog., another lang, (b) required average. at least 60 per cent

5 Mature matriculation. adult students over 21 yrs of age, who are without normal admission requirements and have been out of school for at least 2 yrs, may be admitted to the prelim yr if they have creditable results in a college aptitude test

B. Admission at Senior Matriculation level

1 Cert in terms of which requirements are expressed no 25*

2 Other certs. listed as acceptable equivalents equivalent certs will be accepted See C below

3 General requirements jr matric as prescribed in A above, plus cert no 25* or the equivalent with an average of at least 60 per cent. in Engl (lit & composition); Latin (2 papers) or maths (2 papers); another lang (2 papers), and 3 other papers selected according to the course the student wishes to enter (An average of 60 per cent. represents the minimum entrance requirement and does not guarantee admission to every course. Under crowded conditions preference

* See pp. 1403-1405

will be given to candidates who have completed the secondary school programme in the normal 5 yrs)

The grade XIII (cert no 25*) subsj are. Engl (lit & composition), maths (algebra, geom. and trig. and statics), hist., Latin (2 papers), Greek (2 papers), French (2 papers), German (2 papers), Spanish (2 papers), Italian (2 papers), phys sci (chem. and phys.), biol (bot. and zool.), geog., music, maths of invest., accountancy practice, secretarial practice. (Note that a 'subj' may include 1, 2 or 3 papers)

4. Specific requirements

Arts, secretarial sci, journalism Matric subsj Engl; another lang., Latin or maths (2 papers), and 3 other papers. Students intending to take the hon. course in Engl or in another lang. will offer another lang. among the '3 other papers'. Those entering hon. bus admin. will include 2 maths papers. Those entering hon. hist. will include hist. Those entering hon. maths will include a 3rd maths paper, and those entering hon. maths and phys. will include also chem. and phys.

Home econ., nursing Matric subsj Engl; another lang., Latin or maths (2 papers), bot., chem. and zool., with at least 60 per cent in each of these 3 sci papers.

Music (Music Teachers' Coll.) (a) Satisfactory results in audition test. (b) Matric subsj Engl., French, Latin or maths (2 papers), music (grade VIII practical and grade II theory or grade IV theory), and one other paper, preferably hist.

Phys. and health educn. Matric subsj.: Engl.,

another lang., Latin or, preferably, maths (2 papers), biol (bot. and zool.) or chem. and phys., and one other paper, preferably hist.

Sci., pre-med., engin. Matric subsj.: Engl., another lang.; maths (3 papers), chem. and phys. An average of at least 60 per cent in maths and sci. is advisable. For admission to the pre-med. course or to the hon. course in biol., bot. or zool. may replace trig. and statics.

5. Mature matric a student 21 yrs of age or over who has been away from formal education for at least 3 yrs will be admitted and excused from further matric studies when he obtains standing at that level in Engl., another lang. and one other subj.

C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

U.S.A. Students with high school graduation dipl. should apply for admission to the prelim. year in one of the affiliated colls. or complete the freshman yr. in an accredited coll. or coll. in the U.S.A. before seeking admission to the univ. at the sr. matric level.

U.K. The local exams formerly conducted for the School Cert. and the Higher School Cert. are accepted as sr. matric standing in some subsj., providing that they were passed with 'credit' or higher standing. The G.C.E. is accepted as sr. matric if it shows standing in 5 or 6 subsj. with at least 2 of them at advanced level. Engl. lit., a lang. other than Engl. and either maths. or an approved sci. must be included. For admission to sci. or engin., advanced level standing is required in chem., maths. and phys.

(C) UNITED KINGDOM

[This statement relates only to the admission of students proposing to take full courses for a first degree. For conditions relating to recognition of study at other univs. and admission for higher degrees, see pp. 788-789 and under the several univs. above. Provided that accommodation is available, students desiring to study in a univ. without intending to graduate may be admitted if they can satisfy the univ. authorities that they are qualified to profit by the course of study they propose to take.]

For details of the requirements for admission to individual univs., reference should be made to the pages listed below.

Aberdeen (pp. 1455, 1458)	London (p. 1440)
Belfast (p. 1463)	Manchester (pp. 1424, 1430)
Birmingham (pp. 1424, 1426)	North Staffordshire (Keele) (p. 1444)
Bristol (p. 1432)	Nottingham (p. 1445)
Cambridge (p. 1434)	Oxford (p. 1447)
Durham (p. 1435)	Reading (p. 1449)
Edinburgh (pp. 1455, 1459)	St Andrews (pp. 1455, 1462)
Exeter (p. 1436)	Sheffield (pp. 1424, 1431)
Glasgow (pp. 1455, 1461)	Southampton (p. 1451)
Hull (p. 1437)	Sussex (p. 1453)
Leeds (pp. 1424, 1427)	Wales (p. 1454)
Leicester (p. 1439)	York (p. 1454)
Liverpool (pp. 1424, 1420)	

* See pp. 1403-1405

Candidates for admission to a univ. in the United Kingdom must have passed the appropriate entrance exam for that univ. or an alternative exempting exam. The principal exams (indicated by a number in this Appendix for the purpose of reference) are as follows

1. Oxford Responsions (held for last time in 1960).
2. Cambridge Previous exam (held for last time in 1961).

General Certificate of Education exams held by the following examining bodies:

- 3 Oxford and Cambridge Schools Exam Board
- 4 Univ. of Cambridge Local Exams Syndicate
- 5 Oxford Local Exams Delegacy
- 6 Southern Univs' Joint Board for School Exams (continues GCE exams conducted up to 1956 by Univ. of Bristol)
- 7 Univ. of Durham
- 8 Univ. of London
- 9 Joint Matric. Board of Manchester, Liverpool, Leeds, Sheffield and Birmingham
- 10 Welsh Joint Education Committee
- 11 Associated Examining Board
- 12 Preliminary exam of the Scottish Univs Entrance Board
- 13 Leaving Cert. exam of the Scottish Education Department
- 14 Senior Cert. exam of the Ministry of Education, Northern Ireland
- 15 Belfast matric exam
- 16 Univ. of Cambridge Local Exams Syndicate's Oversea Cert. exams. (a) School, (b) Higher School
- 17 Army Special Cert. of Education exam.

The univs. also recognize certain exams other than those enumerated above as qualifying for admission. These exams and the conditions affecting them are referred to in the text below under each univ. or group of univs.

JOINT MATRICULATION BOARD OF THE UNIVERSITIES OF MANCHESTER, LIVERPOOL, LEEDS, SHEFFIELD AND BIRMINGHAM

Secretary to the Board J. A. Petch, MA LL.D.
315 Oxford Rd., Manchester, 13

1. Before admission to a degree course in one of the five univs. which constitute the Joint Matric. Bd., a student must satisfy (a) the requirements of the bd. which are concerned with general educn. and (b) any spec. fac. or dept. requirements of the individual univ. concerned (*see below*, pp. 1426-1432). Completion of the requirements under (a) and (b) does not automatically give right of entry to a univ. To be accepted by a univ. a student must apply direct to the registrar of that

univ. Full information regarding the bd.'s requirements may be obtained from the sec. to the bd., 315 Oxford Rd., Manchester, 13.

2. Until further notice, the univ. entrance requirements of the Joint Matric. Bd. will be satisfied by any one of the following qualifs. I. A General Cert. of Educn. which fulfils the prescribed conditions (*see below*). II. A pass in the bd.'s exam for candidates of mature yrs (*see below*). III. A pass in the bd.'s exam for candidates who have been engaged in industry or commerce (*see below*). IV. One of the qualifs. listed under section IV (*see p. 1425*) (the items in this list are subject to annual revision). V. Any qualif. which satisfied the bd.'s requirements in force at the date the qualif. was obtained.

I. General Certificate of Education

3. The bd.'s univ. entrance requirements will be satisfied by a G.C.E. awarded by the bd. (or, (A) or (B) only), by one of the examining bodies referred to in para. 4) which shows: Either (A) a pass in 6 subs. which incl. (i) Engl. lang., (ii) a lang. other than Engl., (iii) either maths. (para. 6) or an approved sci. (para. 7), (iv) at least 2 subs. at the advanced level, provided that (1) The requirements under (A) must be shown on not more than 3 General Certs. (2) The required subs. must be selected from the list given in para. 5, except that one but only one, of certain 'technical' subs. may be incl. as a subj. at ordinary level, whether passed at ordinary or advanced level. Details from the sec. (3) No subj. may be counted both at the ordinary and at the advanced level. Or (B) a pass in 5 subs. which incl. (i) Engl. lang., (ii) a lang. other than Engl., (iii) either maths. (para. 6) or an approved sci. (para. 7), (iv) at least 2 subs. at the advanced level passed at the same sitting as at least one other of the 5 required subs., provided that (1) The required subs. must be selected from the list given in para. 5. (2) No subj. may be counted both at the ordinary and at the advanced level. Or (C) passes, all at advanced level and at 1 sitting of the bd.'s exam, in general studies and in 2 other advanced subs. chosen from the list given in para. 5 below.

4. The G.C.E. of the following examining bodies will be accepted under the same conditions as the bd.'s General Cert. nos. 3-8, 10, and (certs. gained in and after June 1959) 11*. The requirements under para. 3 (A) and para. 3 (B) above may be fulfilled by a combination of certs. issued by more than one examining body. Applicants from holders of a G.C.E. awarded by No. 11* are given individual consideration if gained before June 1959.

5. The following subs. of the bd.'s G.C.E. exam and the corresp. subs. in the exams of any of the bodies referred to in para. 4, will be accepted for the purposes of para. 3. (1) general paper, (2) Engl. lang., (3) Engl. lit., (4) hist., (5) anc. hist. & lit. (may not be counted with hist.), (6) outlines of British govt.; (7) geog.; (8) econ.;

* See col. 1

(9) scripture knowledge, (10) art, (11) hist & appreciation of art (may not be counted with art), (12) music, (13) Greek & Roman lit in translation (may not be counted with Greek and/or Latin), (14) Greek, (15) Latin, (16) French, (17) German, (18) Spanish, (19) Italian, (20) Russian, (21) Welsh, (22) spec approved langs (23) maths, (24) further maths, (25) pure maths with statistics, (26) pure maths, (27) maths & theoret. mechanics (counts as 2 advanced subjects but may not be counted with any of subs 23-26), (28) phys., (29) chem, (30) phys-with-chem (may not be counted with any of the following phys., chem, general sci, agric sci, bldg sci), (31) bot., (32) zool., (33) biol. (may not be counted with bot and/or zool.), (34) geol., (35) general sci I, (36) general sci II (general sci I and/or II may not be counted with any of the following phys., chem, phys-with-chem, bot., zool., agric sci, biol., bldg sci); (37) agric sci (may not be counted with phys., chem, phys-with-chem, biol., general sci), (38) physiol. and hygiene (may not be counted with zool. or biol.), (39) bldg sci (may not be counted with any of the following phys., phys-with-chem, general sci)

Note—Passes at advanced level in (24) further maths and in either (23) maths or (25) pure maths with statistics, whether gained at the same or at separate sittings, will count as passes in two advanced subs., but (i) none of the four advanced subs. (23) to (26) will count with a mathematical subj. at the ordinary level, (ii) pure maths (advanced) will not count with any other mathematical subj., (iii) pure maths with statistics (advanced) will not count with maths (advanced)

6 Any of the subs. (23)-(27) in para 5 above will satisfy the requirement of maths under para. 3 (A) (iii) and para. 3 (B) (iii)

7. Of the subs. listed in para 5, nos (28) to (39) (both inclusive) are 'approved scis' for the purposes of para. 3 (A) (iii) and para 3 (B) (iii).

8 The bd will accept subs. of the Gen Cert. exams of examining bds 3-8, 10 and 11* if it is satisfied that the syllabus of any such subj., even though it bears a different title, is substantially equivalent to a syllabus in one of the subs. listed in its regns in its own Gen Cert exam

II Examination for Candidates of Mature Years

9 This exam is to meet the needs of exceptional candidates permanently resident in the U.K. who have been unable to qualify at the normal time but show promise of obtaining more than ordinary success in a univ course. The exam may be taken only by candidates who desire to proceed to an approved course in one of the constituent univs. Candidates must be not less than 23 yrs of age on May 1 of the year of exam.

III Examination for Candidates who have been engaged in Industry or Commerce

10 Permission to enter for this exam. is granted only to candidates permanently resident in the U.K. who are not less than 19 yrs. of age on March 31 of the year of exam and desire to proceed to a degree course in one of the constituent univs, having been engaged in full-time indust., technical or comml. employment for a period of at least 3 yrs.; candidates must also have attended systematic courses of instruct. satisfactory to the bd. for a period of at least 3 yrs and have gained at the end of the course a cert. or dipl. deemed satisfactory by the bd. Details from the sec

IV Other Qualifications accepted by the Board

11 A candidate will be regarded as satisfying the bd's requirements if he holds any one of the following qualifs. (a) A degree conferred by an approved univ. after exam. (b) A cert. showing that the holder is a barrister called to the English bar or a solicitor admitted on the rolls after passing the final exam. of the Law Society (*fac. of law only*) (c) *Either* (i) no 12* or 13* § provided that the candidate passed at one sitting of one of these exams. in 5 subs. at the higher grade, such 5 subs. to include at least 1 subj. of each of groups I, II and III of the bd's former Sch. Cert. exam. (each of the subs. phys., chem., bot., zool. will be counted as one subj. if passed at the higher grade), or (ii) by a pass at not more than two sittings of no 12* or no 13* (or a pass at one sitting of no 12* together with a pass at one sitting of no 13*) in 4 subs. at the higher grade and 2 subs. at the lower grade, such 6 subs. to incl. passes in Engl., an approved lang. other than Engl., and maths (or an approved sci.). (d) *Either* (i) no 14*, provided that at one sitting after March 1, 1952, the candidate passed in Engl. lang., an approved lang. other than Engl., maths (or an approved sci.) and 3 other approved subs., at least 2 of the 6 required subs. being passed at the advanced level, or (ii) no 14*, provided that the candidate has by means of this exam. fulfilled the demands of para 3 (A) or (B) on p. 1424, for this purpose subs. passed *with credit* at ordinary level will be accepted as equivalent to subs. passed at ordinary level in a G.C.E. Subs. passed at advanced level in no 14* are subject to approval by the bd. (e) The Leaving Cert. of the Dept. of Educn., Republic of Ireland, provided that the candidate passed with hon. at one and the same sitting in 5 subs. approved by the bd., such subs. to incl. at least one subj. of each of groups I, II and III of the bd's former Sch. Cert. exam. (f) No 17* (g) *For the time being and subject to review*, a dipl. in technol. awarded by a coll. in the U.K. approved for this purpose by the Natl. Council for Technological Awards.

* See p. 1424

§ The conditions for the acceptance of this cert. if gained before Jan. 1, 1952, will be supplied by the sec to the bd. on request

12 The following provisions apply to performances in Oversea Sch. Cert and Higher Sch. Cert exams if conducted by one of the bodies referred to in para 4, or by the W. African Exams Council or by the Sudan Exams Council, (a) a *pass with credit* in a Sch. Cert exam or a *pass* in a subsidiary subj. (incl. 'subsidiary standard') in a Higher Sch. Cert exam will be accepted in lieu of a *pass* at the ordinary level in the G.C.E. exam (a *pass* in the General Paper is not acceptable), (b) a *pass* at principal standard in a Higher Sch. Cert exam will be accepted in lieu of a *pass* in the corresp. subj. at advanced level in the G.C.E. exam. (Acceptance of a *pass* at principal standard in a specially approved lang. is subject to the Bd's approval)

13 The Bd. will exercise discretionary power in accepting certs. of having passed other exams of a standard which it deems to be satisfactory for university entrance purposes. It may, however, require a performance above the minimum prescribed for the award of certain certificates.

BIRMINGHAM

Before admission to a degree course in the Univ. a student must satisfy (a) the requirements of the Northern Univs. Joint Matric. Bd. (see above, p. 1424) and (b) any relevant fac. and dept. requirements (see below).

Min. age for entrance to all facs. of the Univ. is 17 yrs.

Faculty and Departmental Requirements

Sci. Candidates for direct admission to the 1st year of a 1st degree course must have passed in 3 subjs. (at least 2 of which must be sci. subjs.) at advanced level of the G.C.E. exam. In special cases 2 advanced level subjs. only may be considered. The subjs. must constitute a suitable prelim. for the intended course.

Pure Science

Maths. 3 subjs., 2 of which must be maths. and phys. Alternative to phys. may be considered, but early appln. essential with full account of circumstances.

Mathl. phys. Candidates should apply for admission to maths. or phys.

Phys. 3 subjs., 2 of which must be phys. and maths.

Chem. Chem. and 2 other subjs., normally phys. and maths. Applicants with biol. qualifs. will, however, be considered.

Zool. and compar. physiol. 3 subjs., one of which must be either biol. or zool. If chem. not passed at advanced level, alternative evidence of adequate knowledge of this subj. will be required.

Bot. 3 subjs., 2 of which must be (a) bot. or biol. and (b) chem.

Genetics. Normally students are admitted to hon. sch. of genetics at commencement of final

yr. only, transfer being possible from hon. schs. of zool. and comparative physiol. and bot. and such other schs. as prof. of genetics may determine in consultation with prof. of the other hon. sch. concerned. In exceptional cases admittance may be obtained prior to final yr., in which case 3 subjs., 1 of which must be zool., bot. or biol., must have been passed at advanced level at one and the same G.C.E. exam.

Microbiol. 3 subjs., 2 of which must be sci. subjs., preferably chem., phys. or maths., biol. or other qualifs. may be considered.

Bacteriol. Chem., phys. and biol. (or bot. and zool. in lieu of biol.)

Geol. 3 sci. subjects, which may incl. geog. Geog. and 2 other sci. subjs. In exceptional cases, general studies may be accepted in lieu of geog. or 1 of the other sci. subjs.

Anat. studies, med. biochem. studies, physiol. studies. Chem., phys. and biol. at advanced level in the G.C.E. exam or the Univ. 1st yr. exam in those subjs. A sufficient knowledge of maths. is also required.

Applied Science

Biochem. 3 sci. subjs., normally chem., phys. and biol. (or bot. or zool.) at advanced level. Candidates with mathl. qualifs. will, however, be considered.

Mech. engin., civil engin., electr. engin., mining. 3 subjs., 2 of which must be maths. & phys. with chem. at least at ordinary level.

Chem. engin., metall. & minerals engin. 3 subjs. must be chem., maths. and phys.

Note.—These are sp. arrangements by which students who have taken arts subjs. as their main subjs. at sch., and who are qualified to enter upon an arts course in the Univ., may obtain a univ. tit. in the scis., by entry to a prelim. yr. course prior to normal 3-yr. course for a degree in sci., other students who have qualified for entry to a sci. course by normal, 'mature' or 'industrial' matric. may also be considered for entry to the prelim. yr. courses.

ARTS. Candidates for direct admission to a degree course, who wish to qualify by means of the G.C.E., must normally have passed in at least 3 subjs. (general studies may be accepted as 1 of these 3 subjs.) at advanced level at one and the same exam, in compliance with the following dept. requirements.

(1) Degree in combined subjs.: at least 2 of the 3 subjs. must be arts subjects. If Latin, French, German or geog. is to be offered in degree course the subj. concerned must have been passed at advanced level. Latin qualif. not required unless the subj. is to be offered for the degree.

(2) Sp. schs. (a) *mental & moral philos., theol. & archaeol.* any 3 subjs.

(b) *Italian.* 3 arts* subjs. Latin must have been passed at ordinary level at least.

* For the purpose of these regns. the following will be considered as arts subjs.: all classical and mod. foreign lang.; Engl. lang., Engl. lit. & anc. mediev. and mod. hist.; maths., art, music, geog., scripture knowledge, and econ.

(c) *Russian* : 3 arts * subsjs
(d) *Hist* : any 3 subsjs Latin must have been passed at ordinary level at least

(e) *French and Spanish* : 3 arts * subsjs, one of which should be the subj to be studied for degree course Latin must have been passed at ordinary level at least

(f) *Engl* : 2 of the 3 subsjs. should be arts * subsjs, one preferably a lang other than Engl Latin or Greek must have been passed at ordinary level at least

(g) *German* : 2 of the 3 subsjs must be arts * subsjs, one of which must be German No Latin requirements for admission

(h) *Classics and Greek* : 2 of the 3 subsjs should be Latin and Greek Candidates who have not Greek at advanced level must be prepared to attend a spec preparatory course for a yr before admission to the spec sch

(i) *Latin* : 3 subsjs, one of which must be Latin.

(j) *Geog* : any 3 subsjs. No Latin requirements for admission

(k) *Music* : any 3 subsjs, of which music should normally be one No Latin requirements for admission. Certain conditions have to be fulfilled to the satisfaction of the prof of music as to adequate power of performance on some musical instrument, etc

(l) *Maths* : one of the 3 subsjs must be maths Some knowledge of phys very desirable

MEDICINE Candidates for admission to the 2nd yr of med or dent must have passed in phys, chem and biol (or bot or zool) at advanced level at the same exam Such candidates should normally be 18 yrs. of age by Oct 1 of yr of admission

COMMERCE Candidates must normally have passed in 3 subsjs at advanced level Maths must have been passed at least at ordinary level

LAW Candidates should normally have passed in 3 subsjs at advanced level

Note—Higher and Sch Cert qualifs equivalent to the qualifs based on the G C E will still be accepted by all facs.

Admission of Overseas Students

Applicns from overseas students to enter the univ must be received by the registrar before April 1, and must be accompanied by testimonials regarding character, educnl qualifs and financial standing Students from overseas (incl those from Australia, Canada, U S A) are required to submit their applicns. through the appropriate govt authority in London for their home country (e.g. the High Commissioner for India or Pakistan, Egyptian Educn Office) or the office of the Hd of the Students' Branch, Colonial Office, 2 Sanctuary Buildings, Great Smith St., London, S W.1

* For the purpose of these regns the following will be considered as arts langs : Engl lang, Engl lit, anc, mediaev and mod hist; maths, art, music, geog, scripture knowledge, and econ

Intending applicants for admission should particularly note that applicns. by personal interview in the univ will not in any circumstances be considered, all applicns must be made in writing in the manner indicated above

(a) *Admission to first degree courses* In addn to satisfying the matric requirements and the fac, entrance requirements, overseas candidates, whose native lang is not Engl., must have passed *either* in Engl lang at the ordinary level in the G C E exam, *or* in the exam for Cambridge Cert of Proficiency in Engl, *or* in Engl. in an exam in their own country which is acceptable to the Northern Universities Joint Matric Bd for the purpose of matric

(b) *Admission to postgraduate courses* In addn. to satisfying all other requirements for admission to postgrad courses, overseas candidates whose native lang is not Engl must provide evidence satisfactory to the univ that they have an adequate knowledge of written and spoken Engl.

(c) *Special pre-admission course* A spec course will be arranged in late Sept for overseas students whose native lang. is not Engl., to introduce them to the British way of life, to familiarize them with living conditions in Birmingham, to give them practice with their Engl, and to discover those who require further help with their written and spoken Engl if they are to benefit fully from their univ course

(d) *Tutor in English for overseas students* A tutor will provide teaching in Engl lang for those overseas students who, after admission, require it

Last Date for Receipt of Applications

Applicns. for admission on prescribed forms should normally be submitted by Jan 31 Candidates taking the N U J M B indust matric exam must apply by Dec 31 Applicns. for admission to the fac of med should be received as soon as possible after April 1 and not later than Nov. 30 in the yr. preceding the proposed date of entry.

LEEDS

Before admission to a degree course in the univ. a student must satisfy (a) the requirements of the Northern Univs Joint Matric Bd (*see above*, p 1424) and (b) any relevant fac. and deptl. requirements (*see below*)

Min age for admission is 17 yrs.

Faculty and Departmental Requirements

The list below is restricted to formal requirements; further information and advice should be obtained from the registrar as to addnl subsjs. which, in conjunction with the min and any fac or deptl requirements, are considered as

desirable in preparation for univ. courses in specified subj.

Arts: *Greek:* (A)* Greek (high standard) and (O)* Latin (at least a pass).

Mod. langs.: candidates wishing to read for sp. studies degrees in French, Italian or Spanish or in a mod. langs. group which includes one of these must have attained a pass at (O) in Latin.

Russian: (O) Russian or equivalent required for admission to the 3-yr. degree course: applicants who do not possess this qualif. may be considered for entry to the 4-yr. course

Hist.: candidates must provide evidence of a reading knowledge of 2 langs. other than Engl., of which one should be French. One lang. at (A) and the other at (O), or other evidence, are acceptable.

Geog.: (A) geog. (high standard) required, and preferably passes in 2 other subjs. at (A). See under 'Sci. Geog.', below, for BSc scheme.

ECON. AND SOC. STUDIES. No spec. requirements.

LAW. No spec. requirements.

SCI. (Note: some modification of the requirements listed below is possible for candidates accepted for a period of study longer than the minimum possible for the award of a degree).

Maths.: good performance in the N.U.J.M.B. exam. at (A) in the double subj. maths. & theoret. mechanics, or in the single subj. maths., or equivalent, required.

Phys.: (A) at a good standard in maths. and phys. required.

Chem.: (A) at a good standard in chem. and in either phys. or maths. (pure and appl.) required

Geol.: advanced study in chem., phys. and/or maths.

Geog.: (A) geog. (high standard) required as part of a good all-round performance based on 3 advanced level subjs.; 1 of these 3 apart from geog. must be an approved sci. (O) maths. is required. (See under 'Arts: Geog.', above, for BA scheme.

Biochem.: (A) chem. (good standard) required. (O) phys. and (O) maths. necessary.

Pharmacol. (4 yrs.) and *Pharmacy* (3 yrs.): (A) phys., and a good performance at (A) in chem., and in either biol. or zool. with a pass in bot.

Psychol.: (A) in 2 sci. subjs.; (O) in maths.

TECHNOL. (Note: some modification of the requirements listed below is possible for candidates accepted for a 4-yr. instead of a 3-yr. degree course).

Engin. (civil and mech.): good standard in maths. and either phys. or chem. at (A) required, a Higher Natnl. Cert., or equivalent.

Engin. (electr.): good standard in maths. and phys. at (A) required, a Higher Natnl. Cert., or equivalent.

Chem. engin.: good standard at (A) in maths. and chem., and a pass in phys. (A) required.

Metall.: good standard at (A) required in maths, phys. and chem. If maths. is taken as a double subj. (e.g. maths. & theoret. mechanics in the N.U.J.M.B. exam.), either phys. or chem. may be dispensed with.

Gas engin.: good standard at (A) in maths, phys. and chem. required.

Ceramics: good standard at (A) in maths., phys. and chem. required.

Agric.: 4-yr. honours course in agric., agric. bot., and agric. chem.—(A) at good standard in the appropriate subj(s), expected 4-yr. honours course in agric. econ.—no addnl. requirements; satisfactory attainment in relevant arts subjs. desirable. 3-yr. ordinary degree course—(A) chem. and biol. normally required *Farming Experience:* 12 consecutive months' work on an approved farm essential before commencing 2nd yr. of BSc course (honours or ordinary) in agric.; some farming experience desirable before entry to honours degree courses in the agric. sciences.

Food sci.: (A) in maths, phys. and chem. with high standard in either phys. or chem. normally required for 4-yr. honours course.

MED. MB ChB: maths. at (O) necessary.

DENT. BChD: knowledge of maths. equivalent to that of (O) level in a G.C.E. exam. necessary

Exemptions

In certain circumstances, applicants for admission to courses leading to the degree of BSc or to the degrees of MB ChB and BChD may be exempted by the bds. of the facs. concerned from 1-yr. courses and corresp. exams. if they possess qualifs. obtained in the G.C.E. exam. or other equivalent exam. of a sufficiently high standard. Subject to a min. attendance in this univ. of 2 yrs. and to the approval of the senate, members of other univs. which require residence as a condition of graduation may be permitted to count their studies and exams (other than the final exam.) therein towards graduation in Leeds

Overseas Students

Applicants of foreign nationality, whether resident overseas or in the British Isles, should make applicn. through the embassy or educn. bureau of their govt. or through the British Council.

Applicants whose native lang. is not Engl. must, if they wish to read for a first degree, have obtained at least the pass mark in each of the following parts of the exam. for the Cert. of Proficiency in Engl. of the Univ. of Cambridge: *oral*—dictation, reading and conversation; *written*—(i) use of Engl., (ii) Engl. lang. (composition and a passage of Engl. with lang. questions). Applicants will, however, be considered from overseas students with equivalent qualifs. in Engl., e.g. a credit in Engl. in the Overseas Sch. Cert. of the

* (A)=advanced level; (O)=ordinary level

Univ. of Cambridge or a pass at the ordinary level in Engl. in the G.C.E. exam. of the Univ. of London.

Last Date for Receipt of Applications

Applics. from persons whose home is in the British Isles (incl. those seeking admission to the fac. of med.) should be returned on the appropriate form by Jan. 31; applics. received after that date will be considered if places are available. Applics. from persons resident outside the British Isles must be received before May 31.

LIVERPOOL

Before admission to a degree course in the univ. a student must satisfy (a) the requirements of the Northern Univs. Joint Matric. Bd. (see above, p. 1424) and (b) any relevant fac. and deptl. requirements (see below).

No person may register as a student who will not have attained the age of 17 yrs. on or before Dec. 31 in the yr. for which entry is sought.

Faculty and Departmental Requirements

ARTS. Applicants for admission to a course leading to the degree of BA must have passed in Greek or Latin or maths. at the ordinary or advanced level in the G.C.E. exam.

Candidates who have qualified in maths, but not in Greek or Latin, will be required: (a) For the degree of BA in gen. studies, to take not less than 5 courses of the 9 required from the following subjs.: geog., econ., econ. hist., sociol., pol. theory & instns., psychol. and philos. (b) For the degree of BA in spec. studies to present themselves in any one of the following 6 schs.: geog., econ., soc. sci., pol. theory & instns., psychol., philos.

ARCHIT. It is desirable that applicants for entry to the sch. of archit. present 3 subjs. at advanced level in the G.C.E. exam. They must, in addition, submit evidence of ability in art.

COMM. For admission to courses leading to BCom there are no requirements addnl. to those of the Jt. Matric. Bd. (see above, p. 1424)

SCI. The amount of knowledge assumed as a basis for introductory courses will be as follows, in terms of the syllabuses given in the Joint Matric. Bd. publicn. *General Cert. of Educn.*, 1962:

Pure maths. Maths. (A)* or further maths. (A) or pure maths. with statistics (A) or pure maths. (A). Maths. (A) and further maths. (A) are preferred.

Appl. maths. Maths. (A) or further maths. (A) or pure maths. with statistics (A) or pure maths. (A) plus phys. (A). Maths. (A) and further maths. (A) are preferred.

Phys. Phys. (A)

Chem. Chem. (A).

Zool. Nil.

Bot. Nil.

Geol. Nil.

Exemption. Exemption from the 1st yr. of a course of study in subjs. which are to be presented at the subsidiary, normal or higher standards, may be granted by the bd. of the fac. to candidates who have passed in the G.C.E. exam. in 3 subjs. at the advanced level and have attained a standard deemed to be satisfactory in the subjs. concerned. These 3 advanced level subjs. need not necessarily be all scientific subjs. A standard higher than pass will be demanded in the 2 subjs. for which exemption is claimed. The syllabuses in terms of advanced level subjs. which are desired for entry into the 2nd yr. of study are as follows:

Pure maths. Further maths. or maths. plus further maths. Pure maths. for students taking subsl. pure maths.

Maths. (pure and appl.). Further maths. plus phys. or maths. plus further maths. Pure maths. with statistics may be considered in place of maths. or further maths.

Phys. Maths. plus phys., or further maths. plus phys.

Chem. For students taking higher chem.—chem. plus phys., and maths. or further maths. or maths. plus further maths. or bot. or zool. or biol. or geol. Chem. for students taking normal or subsidiary chem.

Bot. Bot. (biol. may be considered).

Zool. Zool. (biol. may be considered).

Geol. Geol. (geog. may be considered).

Applicants proposing to satisfy univ. entrance requirements by means of passes in general studies and in 2 other advanced subjs. may find it difficult to read for an honrs. degree in some schs. of the fac. in 3 yrs.

MED. There are no spec. addnl. requirements for entry to the fac. of med. It is not necessary for candidates to have taken sci. subjects at advanced level in the G.C.E. exam., but it is advisable that phys. and chem. should have been studied up to ordinary level, since the 1st MB courses are designed on the assumption that students have an elementary knowledge of these subjs.

Exemption. Passes at advanced level in phys., chem. and biol. (or bot. and zool.) may entitle a candidate to exemption from the corresp. courses and exam. of the 1st MB. A pass at advanced level in zool. will also be accepted as grounds for exemption from the courses of study and exam. of the 1st MB biol. provided passes at the advanced level in chem. and phys. have also been obtained. Every endeavour is made to admit all eligible candidates direct to the 2nd yr. of studies, but occasionally the number of eligible candidates exceeds the number of vacancies. Those who cannot secure admission to the 2nd yr., and those with partial exemption, are offered opportunities of attending courses of instruct. in other facs. to broaden their general educn.

* (A) = advanced level

DENT. SURG. There are no spec. addnl requirements for entry to the sch. of dent. surg., but it is desirable that phys. and chem. should have been studied up to ordinary level in the G.C.E. exam., as the 1st-yr. course for the BDS is designed on the assumption that students have an elementary knowledge of these subjs.

Exemption. Candidates who have passed at advanced level in phys., chem. or zool. are eligible for exemption from the corresp. courses and exams. for the 1st BDS. If a candidate has passed in all these subjs. at advanced level, he is eligible to commence 2nd-yr. studies.

LAW. The bd. of the fac. will not regard with favour any applicant intending to become a solicitor or a barrister who, at the date of entry into the fac., does not possess the qualif. for exemption from the prelim. exam. of the Law Society or for admission as a student into one of the Inns of Court, as the case may be. Whilst not prescribing an exam. pass in Latin as an absolute essential, the bd. of the fac. regards the lack of a working knowledge of it as a handicap, particularly for the study of Roman law for the inter. LLB course. Consequently, it is advisable for prospective applicants to acquaint themselves with the requirements of the appropriate professional body, in particular the articulated clerks regns., 1957.

ENGIN. Courses in the fac. of engin. are designed on the assumption that students have some previous knowledge of pure and appl. maths., phys. and chem. Candidates are recommended to present in the G.C.E. exam. at the advanced level (a) maths. plus further maths. plus phys., (b) maths. plus phys. plus chem., or (c) maths. plus phys. plus 1 other subj. Where it is possible to present maths. with different alternatives, it is strongly recommended that an alternative which includes theoret. mechanics should be presented. All candidates are strongly recommended to study chem. to at least the ordinary level of the G.C.E. For admission into the dept. of metall. it is recommended that candidates present combination (b). Applicants from candidates with other suitable combinations of subjs. will be considered.

All students entering the fac. are potential hons. candidates. Separation into ordinary and hons. degree streams normally occurs at the end of the penultimate yr. of the course.

Exemption. The bd. of the fac. will be prepared to consider for exemption from the 1st yr. of study and the inter. BEng exam. candidates who have passed the exam. for the G.C.E. and whose performance in 1 of the preceding combinations of subjs. is satisfactory to the bd. of the fac. Candidates who have passed the G.C.E. exam. but have not reached a sufficiently high standard for exemption from the 1st yr. of study and inter. BEng exam. may be considered for such exemption, provided that they satisfy the examiners in pure maths. and appl. maths. separately in the inter. exam. before entering the univ.

VET. SCI. The bd. of the fac. requires applicants to have attained a standard not less than

that of a pass in chem. at the advanced level of the G.C.E., and a standard not less than that of a pass in phys. at the ordinary level of the G.C.E.

Exemption. Candidates who have passed the G.C.E. at the advanced level, or an equivalent exam. at a similar standard, in any of the subjs. of phys., biol., bot. and zool. are eligible for exemption from the corresponding courses of study and exams. of the 1st BVSc exam.

Overseas Students

Overseas students must apply for admission to the fac. or dept., with the exception of students from India and Egypt, who apply for admission through the following official bodies: *India*—the Educn. Office of the High Commissioner for India, Aldwych House, London, W.C.2. *Egypt*—United Arab Republic Cultural Centre, 4 Chesterfield Gardens, Park Lane, London, W.1.

Applicns. from overseas students for admission to the fac. of med., the sch. of dent. surg. or the fac. of vet. sci. must be received not later than Nov. 30 of the yr. preceding that in which admission is required; applicns. for admission to other facs. and schs. must be received not later than Jan. 31 of the yr. in which admission is required, and must be accompanied by detailed references certifying as to character and a detailed record of educn. qualifs. No overseas student may be registered for entry upon a degree course until he has satisfied the entrance requirements of the N.U.J.M.B. (see above, p. 1424) and his admission has been approved by the senate. Overseas students must forward with their applicn. for admission a cert. of proficiency in written and spoken Engl., and must satisfy the bd. of the fac. concerned that they have a knowledge of Engl. sufficient for undertaking their proposed course of study. Except by spec. permission of the senate, students normally resident outside Gt. Britain will not be admitted to the univ. unless assured of adequate financial support.

Last Date for Receipt of Applications

Forms of applicn. should be obtained from the univ. and must be completed and returned by Jan. 31 of the yr. in which admission is sought with the exception of applicns. for admission to the fac. of med., the sch. of dent. surg. or the fac. of vet. sci., which should be received by Nov. 30 of the previous yr.

MANCHESTER

Before admission to a degree course in the univ. a student must satisfy (a) the requirements of the Northern Univs. Joint Matric. Bd. (see above, p. 1424) and (b) any relevant fac. and deptl. requirements (see below).

Min. age for admission to the univ. is 16 yrs. for men, 17 yrs. for women

Faculty and Departmental Requirements

Students entering for the following degree courses must have reached the ordinary or a higher level in a G.C.E. exam. in the subs. named or give evidence of having attained an equivalent standard.*

Hons. schs. in *arts* (except archit., town & country planning, pol. & mod. hist., mod. hist. with econ. & pol., philos., psychol., geog., Oriental studies, bibl. studies, maths. & philos.)—Latin (or Greek in case of hons. schs. of Engl. or German, or maths.) in case of hons. sch. of maths.) unless prepared to devote 4 yrs. to the course. The requirement of Latin may be waived for students entering by means of mature matric.

Exemption

The 1st yr. of a degree course is an integral part of the course; in spec. cases, however, students may be admitted to the 2nd or subsequent yr. if they have satisfactorily attended relevant courses at another approved univ.

ARTS. Students entering an hons. degree course may be exempted from attendance and exam. in one course of inter. grade, if they have passed sufficiently well in the relevant subject at the advanced level in the G.C.E. exam. A standard considerably above the pass mark is required.

MED. AND DENT. Candidates who have been accepted for admission to the course for the degrees of MB ChB and who have passed in chem. or phys. or zool. or biol. at the advanced level in the G.C.E. will be exempted from the corresponding separate subj. or subs. in the 1st MB ChB exam.

Candidates entering the course for the BDS who have passed in chem. and phys. and zool., or biol., at the advanced level in the G.C.E. exam., may be exempted from the 1st BDS exam.

Overseas Students

There are no spec. regns. for applcns. from overseas candidates.

Last Date for Receipt of Applications

Applicants for admission to first degree courses (incl. admission to fac. of med.) should be submitted by Jan. 31 in the yr. in which entry is desired. Applicants. after this date will be considered only in exceptional circumstances.

SHEFFIELD

Before admission to a degree course in the univ. a student must satisfy (a) the requirements of the Northern Univs. Joint Matric. Bd. (see above, p.

1424) and (b) any relevant fac. and deptl. requirements (see below).

No student under the age of 17 may be admitted to a degree or dipl. course except with the spec. permission of the senate.

Faculty and Departmental Requirements

ARTS. Students must have passed in at least 2 subs. at advanced level in the G.C.E. exam. With the exception of foreign students, who may be allowed to substitute a course in Engl., every candidate for the degree of BA must incl. a lang. other than Engl. in the 1st yr. of the course. A knowledge of Latin is not compulsory for students who wish to read for a general degree, but a qualif. in Latin is required for entry to hons. schs. of classics, Engl., French, Spanish, hist. Inter. courses for beginners are available in anc. hist., archit., bibl. hist. & lit., econ., philos., psychol. The following inter. subs. can be started from the beginning in the univ.: anc. hist., philos., econ., archit., bibl. hist. & lit., psychol., and, under certain conditions, Spanish and Greek. Before admission to an inter. course in any other subj., a candidate must provide evidence of his proficiency up to at least ordinary level in the G.C.E. exam.

ECON. AND SOC. STUDIES. No requirements addnl. to those of the Jt. Matric. Bd. (see above, p. 1424), but as the number of applicants is much greater than the number of places available, the standard needed to gain admission may be higher than the minimum requirements.

ENGIN. For admission to the 3-yr. degree courses in civil, mech., electr. engin., mining, or fuel technol. & chem. engin., applicants should have passed at a satisfactory standard the advanced papers of the G.C.E. in pure & appl. maths., phys. and one other subject (chem. in the case of fuel technol. & chem. engin.; preferably chem. in the case of mining). Candidates who have complied with the univ. entrance requirements of the Jt. Matric. Bd. (see above, p. 1424), but who have not attained a standard in these subs. high enough to satisfy the spec. requirements of the fac., may be allowed to take an entrance exam. in the univ. or they may be admitted to a prelim. course of 1 session's duration. Applicants for admission to a degree course in glass technol. who have reached a standard satisfactory to the fac. in maths., phys. and chem., all at the advanced level, may be exempted from the inter. courses and exams. in those subs.

LAW. No requirements addnl. to those of the Jt. Matric. Bd. (see above, p. 1424).

MED. Applicants should normally have reached at least the ordinary level in the G.C.E. exam. in the subs. of chem. and phys., and preferably also biol. Exemption from the 1st MB ChB, or 1st BDS, pt. I may be gained if an

* The attainment of at least Sch. Cert. credit standard in the relevant subj. will continue to be accepted until further notice.

§ A pass at the advanced level in 'maths. & theorett. mechanics' will be accepted.

applicant has reached a standard accepted by the fac. at advanced level in the G.C.E. papers, or passed the inter. BSc exam. of any univ. in chem., phys., and either biol. or zool. or bot., or has passed the 1st MB or 1st BDS exam. of an approved univ.

METALL. Applicants for admission to degree course should have passed in maths., phys. and chem. in the G.C.E. exam. at advanced level. A candidate who has passed the advanced level papers in these 3 subs. at a standard approved by the fac. may be deemed to have passed the inter. exam. in them and be admitted to the 1st yr. of the course for the degree with honrs.

PURE SCI Intending students should have passed in at least 2 sci. subs. at the advanced level of the G.C.E. A student desiring to enter a spec. honrs. sch. may be admitted to the 1st (post-inter.) yr. of the honrs. course if he has passed at an approved standard in the advanced papers of the G.C.E. in 2 or 3 sci. subs. according to the requirements of the spec. honrs. sch. concerned. For the gen. degree of BSc exemption from the inter. exam. is not granted in respect of passes in a G.C.E.

Note.—Higher and Sch. Cert. qualifs. equivalent to the qualifs. based on the G.C.E. will still be accepted by all facs.

Overseas Students

Students from Burma, Ceylon, Egypt, Ghana, India, Iran, Iraq, Jordan, Nigeria, North Borneo, Pakistan, Sarawak, Saudi Arabia, Sudan, Syria, Thailand, Turkey or British Colonial territories should apply for admission through the appropriate representative of their country in London.

Students whose mother tongue is not English may be required to pass a test in Engl. before admission to the univ.

No overseas student will be allowed to attend any course unless the result of a med. exam., conducted at entry by the univ., is certified as satisfactory by the univ.'s med. officer.

Last Date for Receipt of Applications

Applicns. should be made on the prescribed form by Nov. 30 for admission to the fac. of med., by Jan. 31 for admission to other facs., for entry the following Oct.

BRISTOL

The univ. holds no matric. or entrance exam.

The following are eligible for matric. (min. age 17 yrs., but see also fac. requirements, below):

- (1) Grads. of univs. in the United Kingdom or other approved univs
- (2) Holders of First and/or Higher Sch. Cert. fulfilling regns. in force before the inception of

the General Cert. of Educn. (Holders of certs. awarded on No. 15* will normally be required to satisfy requirement (3) below, counting a credit in a Sch. Cert. or a pass in a subsidiary subj. in a Higher Sch. Cert. exam. as equivalent to an ordinary level pass, and a pass in a principal subj. in a Higher Sch. Cert. exam. as equivalent to an advanced level pass in a G.C.E. exam.).

(3) Holders of a G.C.E. awarded by nos. 3-11*, provided that the cert. shows *either* scheme: A (6 subs.)—a pass in (a) Engl. lang., (b) a lang. other than Engl., (c) either maths. or an approved sci. subj., and 3 other subs. chosen from the approved list of subs.; and provided 2 of the 6 subs. are passed at the advanced level; *or* scheme B (5 subs.)—a pass in (a) Engl. lang., (b) a lang. other than Engl., (c) either maths. or an approved sci. subj. and 2 other subs. chosen from the approved list of subs., provided that 3 of these subs. incl. 2 at the advanced level, are passed at one and the same sitting. These 3 subs. must not all be taken from the same group.

Subjects approved for matric. Group I: (1) Engl. lang.; (2) Engl. lit.; (3) anc. hist. or anc. civilization or Greek civilization; (4) med. & mod. hist.; (5) geog.; (6) econ.; (7) music; (8) art; (9) religious knowledge; (10) Greek; (11) Latin; (12) French; (13) German; (14) Spanish or any other approved lang. Group II: (15) maths. or addnl. maths. or pure maths. or pure & appl. maths.; (16) appl. maths. (may not be taken with pure & appl. maths.); (17) phys.; (18) chem.; (19) phys. with chem. (may not be taken with either phys. or chem.); (20) general sci. or addnl. general sci.; (21) bot.; (22) zool.; (23) biol. (may not be taken with either bot. or zool.); (24) geol.; (25) geog.

No subj. may count at both ordinary and advanced levels.

Either maths. or pure maths. or appl. maths. or pure & appl. maths. will satisfy the requirements of maths. under regns. for schemes A and B.

Subjs. (17) to (25) inclusive are approved sci. subs. for the purposes of matric. under schemes A and B.

A pass in Engl. lit. at ordinary or advanced level does not meet the requirement of an ordinary level pass in Engl. lang.

Individual consideration may be given to candidates who do not precisely satisfy the requirements under para. (3) above but who do fulfil the requirements of other matriculating authorities in England or Wales and satisfy fac. requirements.

(4) Candidates who have passed no. 17.*

(5) Trained certificated teachers, provided they have passed with distinction in at least 1 of the general subs. prescribed in a recog. cert. exam.

(6) Candidates who have satisfied the examiners in the passing-out exam. of the Royal Naval Coll., Dartmouth.

(7) Candidates who have passed the Forces Prelim. exam., subject to interview.

(8) Candidates for admission to the fac. of

* See p. 1424

engin. who have been engaged for 2 yrs. in industry or commerce and have attended courses for at least 2 yrs. (3 yrs. if seeking exemption from inter.) and who have ordinary level Engl. lang. in G.C.E. exam. and either Ordinary National Cert. or Higher National Cert. of outstanding merit or equivalent.

The following may be declared eligible for matric.:

(a) A candidate educated elsewhere than in the United Kingdom, on his submitting evidence of having passed exams. equivalent to those qualifying for matric. at Bristol and, if necessary, evidence of ability to follow instructn. given in Engl.

(b) A candidate for a res. degree on submitting evidence of sufficient qualifs. for conducting original res.

(c) In exceptional circumstances, a candidate over 23 yrs. of age on submitting evidence of previous educn. and attainments.

(d) Barristers-at-law and solicitors of the supreme court.

Faculty Requirements

ARTS All candidates for admission must be 17 yrs. and 9 mos. of age. In addn. they must hold the following exam. qualifs.:

For BA (gen. or spec.) A pass at ordinary or advanced level in Latin or classical Greek. Candidates who are natives of Arabic-speaking countries and who have not reached the requisite standard in Latin or Greek, but have reached a recog. equivalent standard in classical Arabic, may, on the recommendation of the bd. of the fac. of arts, be accepted for admission to the fac. Such candidates will be admitted only if they are qualified to read in certain spec. schs. as determined by the bd. of the fac.

For BA spec. in econ., econ. & acctg., econ. & govt., geog., hist. & econ. philos., philos. & econ., philos. & maths., philos. & psychol., and for the curriculum in modern studies for gen. degree of BA. A pass at or above ordinary level in either maths. or a classical lang.

LAW. Candidates are required to have passed in Latin at the ordinary or advanced level.

Exemption from First-Year Courses and Exams, and Entry to Certain Special Courses

ARTS AND LAW. There is no inter. course or exam. in these facs. and no exemptions are granted.

SCI. Candidates seeking exemption from the inter. BSc exam. must be 17 yrs. and 9 mos. of age and must have passed in the G.C.E. exam. in 3 mathematical or scientific subj., of which 2 must have been taken at the advanced level. Only those subj. listed in group II of the subj. approved for matric. (see above) are accepted for this purpose. Candidates seeking exemption from the inter. exam. for BSc(DomSci) must have

obtained advanced level passes in chem. and in either bot. or zool. or biol. They should also have a knowledge of phys. to at least the ordinary level. Acceptance into a spec. school will depend on a candidate's performance in the advanced level exam. for the G.C.E., on the report from his present school and, for most depts., on the result of an interview. The minimum requirements for entry into the various spec. schools are normally good passes at the advanced level in the following subj.:

Anat. Biol. and either chem. or phys.

Biological chem. Chem. and phys. and (a) bot., biol., maths. or zool. if either bot. or zool. is to be taken as an ordinary course, or (b) biol. or zool. if physiol. is to be taken as an ordinary course.

Bot. Any 2 sci. subj. If chem. is not one of them, a candidate should have a background knowledge of the subj. to ordinary level although an exam. pass is not necessary.

Chem. Chem., phys. and either maths. or a biol. subj.

Geog. At least 2 subj. from the group biol., bot., chem., geog., geol., maths., phys. & zool. A knowledge of maths. to ordinary level is expected.

Geol. At least 2 subj. selected from the following list: biol., bot., chem., geog. or geol., maths., phys., & zool.

Maths. Pure and appl. maths. as separate subj. and a 3rd subj., preferably phys.

Microbiol. At least 2 subj., one from each of the following groups: (a) chem., maths., phys.; (b) biol., bot., & zool.

Phys. Maths. and phys. and in addn. a background knowledge of chem.

Physiol. Chem. and either zool. or biol.

Psychol. Any 2 sci. subj.

Zool. Any 2 sci. subj. If chem. is not one of them a candidate should have a background knowledge of the subject to ordinary level although an exam. pass is not necessary.

MED. (incl. dent. surg. and vet. sci.). Candidates seeking exemption from the 1st MB ChB exam., the 1st BDS or LDS exam. or the 1st BVSc exam., must be 17 yrs. and 9 mos. of age and must have passed in phys., chem. and biol. (or bot. and zool.) at the following standards:

Phys.: good pass at ordinary level (or pass at ordinary or advanced level in advanced level exam.).

Chem.: pass at advanced level.

Biol.: pass at advanced level, or pass in zool. at advanced level with good pass in bot. at ordinary level (or pass at ordinary or advanced level in advanced level exam.).

ENGIN. Candidates seeking exemption from the inter. exam. must be 17 yrs. and 9 mos. of age and must have passed either at advanced level in pure maths. and in appl. maths. and at ordinary level in phys.; or at advanced level in maths. (pure or appl. or pure-&-appl.) and in phys. Candidates should also have studied chem. to at least the ordinary level.

Last Date for Receipt of Applications

Applicns. for admission to the several facs. should be submitted to the registrar on the prescribed form not later than Nov. 30 (med., incl. dent. and vet. sci.), Jan. 31 (arts, engin., law, sci.).

CAMBRIDGE

To become an undergrad. member of the univ. a student must first be admitted to a coll. or to Fitzwilliam House. Applicn. should be made on forms obtainable from the tutor for admissions of the chosen coll. (from the sec. in the case of Girton and Newnham Colls.). It is advisable to apply more than one yr. beforehand. Candidates from overseas may obtain information and advice from the adviser to overseas candidates for admission, 17 Silver St., Cambridge.

Admission to a coll. secures admission to the univ., but no student can be admitted to a coll. unless he has satisfied the exam. requirements for matric. in the univ. of which details are given below. Completion of these requirements is not by itself a sufficient qualif. for admission to a coll., which is competitive.

Many colls. have entrance exams., held once a yr., though they may admit persons (particularly overseas candidates) who have exceptional qualifs. without requiring them to take an entrance exam. Candidates for coll. scholps. may secure admission on the results of the scholp. exam. even if they do not obtain a scholp. or exhibition. Details of coll. entrance and scholp. exams. are given in a sp. number of the *Cambridge Univ. Reporter* publ. annually in May and obtainable (price 6d.) from the univ. press.

Exam. Requirements for Matriculation

A candidate for admission will satisfy the exam. requirements for matric. if he has, in one or more exams. for the G.C.E. held by nos. 3-11,* passed in : (a) the Use of Engl., (b) 2 langs. other than Engl., (c) an approved mathematical or scientific subj., (d) one other approved subj. The candidate must have passed 2 of the subjs. under (b), (c) and (d) at advanced level, unless he holds a coll. open scholp. or exhibition. A pass in the Use of Engl. may not be counted if it was obtained more than 12 mos. before the date of the exam. in which the candidate first obtained passes in one or more subjs. at advanced level or obtained a coll. open scholp. or exhibition. A pass in the univ. supplementary exam. in the Use of Engl. or in papers prescribed by the matric. bd. is accepted in place of G.C.E. Use of Engl., and a pass in the univ. supplementary exam. in Latin is accepted as a pass at ordinary level in a lang. other than Engl. ; these supplementary exams. are held twice a yr. in Cambridge.

A candidate can alternatively, until Oct. 1, 1965, satisfy the exam. requirements for matric. if he has, in one or more exams. for the G.C.E. held by

nos. 3-11,* passed in : (a) Engl. lang., (b) Latin or classical Greek, (c) an approved mathematical or scientific subj., (d) 2 other subjs. The candidate must have passed 2 of the subjs. in (b), (c) and (d) at advanced level.

A candidate will be deemed to have satisfied the ordinary level exam. requirements for matric. if he has passed (in the G.C.E. subjs. specified above) in one or more exams. for certain certs. other than G.C.E. These certs. and the prescribed standards are : no. 12,* pass at lower standard ; no. 13,* pass in ordinary grade (a pass in higher grade is deemed to be a pass at advanced level) ; no. 14,* pass at ordinary level (pass at advanced level is accepted as such) ; no. 16 (a),* pass with credit or 'very good' ; no. 16 (b),* pass in a subsidiary or principal subj. (pass in a principal subj. is deemed to be pass at advanced level). Also Sch. Cert. awarded by West African Exams. Council, pass with credit or 'very good' ; Leaving Cert. of Dept. of Educn., Dublin, pass with hons ; cert. of having passed in certain subjs. in the matric or entrance exams. of Univ. of Dublin, Queen's Univ. of Belfast or National Univ. of Ireland ; Ceylon Sr. Sch. Cert. or Ceylon General Cert. of Educn., pass with credit.

Special Provisions

Asia or Africa. Candidates from Asia or Africa may be deemed to have satisfied, or partly to have satisfied, the exam. requirements for matric. on their performance in exams. not specified above if they have passed in : (a) Engl. lang., (b) any other lang., (c) an approved mathematical or scientific subj., (d) 2 other approved subjs.

U.S.A. A candidate educated in the U.S.A. who has taken the tests of the College Entrance Exam. Bd. is deemed to have satisfied the exam. requirements for matric. if he has attained in the following tests a standard approved by the matric. bd. : (a) the scholastic aptitude test (verbal and mathematical sections) ; (b) achievement tests in (i) Engl. composition, (ii) 2 langs., (iii) one of the following : biol., chem., phys., inter. maths., advanced maths.

India and Pakistan. A candidate who has attained the 1st class in the inter. exam. in arts and sci., or the 1st or 2nd class in the exam. for the BA or BSc, in an approved univ. of India or Pakistan, is deemed to have satisfied the exam. requirements for matric. provided that, in some exam. leading up to the BA or BSc in that univ., he has passed in an oriental lang., maths. or sci., and Engl.

Other Commonwealth countries or countries using a European lang., except English, as the medium of instructn. A candidate who produces a cert. qualifying him for admission to an approved univ. in a Commonwealth country other than India or Pakistan or in a country using a European lang. other than Engl. as a medium of instructn., may be deemed to have satisfied or partly to have satisfied the exam. requirements for matric. if his

* See p 1424

qualif. for such admission includes either the passing of an exam. or the satisfactory completion of a course of study in subjs. in general accordance with those specified above for G.C.E.

Grads. of univs. other than Cambridge. Grads. of any univ. approved for the purpose by the council of the senate are deemed to have satisfied the exam. requirements for matric.

Adult students. An adult student recommended by the bd. of extra-mural studies as fit to undertake a course leading to an honrs. degree may be deemed to have satisfied the exam. requirements for matric. An adult student who has been awarded a technical state scholop. or a similar award may be deemed to have satisfied the exam. requirements for matric. Such students must normally be not less than 25 yrs. of age.

Commissioned officers. A commissioned officer of H.M. regular forces, incl. regular forces of the Commonwealth, who is resident in Cambridge under the orders of the service authorities, is deemed to have satisfied the exam. requirements for matric. A midshipman in the regular naval forces is treated for this purpose as a commissioned officer.

Admission to Advanced Standing: 'Affiliation'

Any person who, before matric. into the Univ. of Cambridge, has received or become qualified to receive a degree from another instn. for the educn. of adult students is entitled, on or after matric., to be approved as an affiliated student provided that (a) when he became qualified for the degree he had been a member of one or more such instns. for not less than 3 academic yrs.; (b) the degree has been approved for the purpose of affiliation by the council of the senate. In particular cases the council may approve as an affiliated student a member or former member of an instn. for the educn. of adult students who does not fulfil these requirements. Certain adult students recommended by the bd. of extra-mural studies may also be approved as affiliated students.

An affiliated student may claim to have satisfied the exam. requirements for matric. He is also entitled to: (a) reckon the 1st term kept by residence as the 2nd, 3rd or 4th term for the purpose of certain provisions respecting the standing of candidates for (i) tripos exams. and (ii) degrees other than the ordinary BA degree or degrees of MSc, MLitt and PhD; (b) proceed to the BA degree, in certain circumstances, on obtaining honrs. in one part or section of a divided tripos.

DURHAM

There is no min. age for admission prescribed by univ. regn., but in neither division of the univ. are degree students normally admitted under the age of 18 yrs. Students admitted to a coll. or recog. society in the Durham division or to the Newcastle division, or to an affiliated coll., may matric. if they (a) possess a general qualif. for

matric. and (b) comply with any spec. requirements for the course they propose to follow.

General Qualification for Matriculation

GENERAL CERT. OF EDUCN. The G.C.E. awarded by nos. 3, 4, 5, 6, 7, 8, 9, 10 and 11* will constitute a general qualif. provided that: (a) the student passed in Engl. lang. and either 4 or 5 other subjs.; (b) the subjs. incl.—(i) a lang. other than Engl.; (ii) either maths. or one of the following: chem., phys., chem.-with-phys., bot., zool., biol., geol., general sci.; (iii) at least 2 subjs. at advanced level.

If the candidate passed in Engl. lang. and four other subjs., in addn. to the requirements in (b) (i) and (b) (ii) above, he must have passed at one and the same sitting in 3 subjs. other than Engl. lang., drawn from at least 2 of the following groups, 2 of these 3 subjs. being at advanced level. Group A: arts subjs. excl. langs. Group B: langs. other than Engl. Group C: maths. and scis. Details should be checked from the regns. or with the registrar.

Note.—Credits in a Sch. Cert. obtained before 1951 may be counted as ordinary level passes. Higher Sch. Cert. passes, principal or subsidiary, obtained before 1951 may be counted as advanced level passes. Credits in the Cambridge Oversea Sch. Cert. or subsidiary passes in the Cambridge Oversea Higher Sch. Cert. will be accepted as ordinary level passes. Principal passes in the Cambridge Oversea Higher Sch. Cert. will be accepted as advanced level passes. The West African Sch. Cert. will be recognized subject to the same conditions as the Cambridge Oversea Sch. Cert. The univ. will accept, as a general qualif. to matric., a G.C.E. which does not comply with certain rules on the selection of subjs., provided that the certs. would qualify to matric. in a univ. in England.

QUALIFICATIONS OTHER THAN GENERAL CERT. OF EDUCN.

(1) A candidate who has been at work for not less than 2 yrs. after leaving sch. or who satisfies the matric. cttee. that the circumstances of his educn. have not afforded proper opportunity of obtaining the G.C.E. may be permitted by the cttee. to matric. if he has passed certain exams. recognized by the cttee. (e.g. Higher or Ord. National Cert. or National Dipl. in relevant subj. for appl. sci. only), or satisfies such tests as the cttee. may prescribe or accept. The cttee. may require the candidate to reach a prescribed standard in an exam. in such subjs. as they may direct.

(2) The Attestation of Fitness of the Scottish Univs. Entrance Bd., granted on passes in no. 12* or no. 13*, will qualify to matric. if it includes any spec. qualif. required for particular courses.

(3) No. 14* will qualify under the same condition.

(4) The Hons. Leaving Cert. of the Dept. of Educn. of the Republic of Ireland will qualify to

* See p. 1424

matric. provided that it includes (a) Engl., (b) a lang. other than Engl., (c) either maths. or an approved sci. subj.; and provided that it includes at hons. standard any subjs. required for entry to a particular course.

(5) The following will qualify to matric., if they incl. any subjs. required for entry on a particular course and if the candidate presents sufficient evidence of proficiency in Engl.: a degree of any univ. in the British Isles or of any other approved univ.; a cert. awarded by any public examining body in Canada, Australia, S. Africa, New Zealand, the U.S.A., or any of the countries which have ratified or acceded to the European Convention on the Equivalence of Diplomas (1953), provided that the cert. qualifies for admission to an approved univ. in the country in which it was awarded; the inter exam. of an approved univ. in India or Pakistan.

(6) The applications of candidates submitting certs. awarded in countries other than the U.K., the Republic of Ireland and those named in (5) above, will be considered individually.

Special Qualifications for Particular Courses

(1) Students entering upon courses for degrees named below and submitting a G.C.E. must not only satisfy the general requirements for matric. but also satisfy the following spec. requirements:

ARTS. BA in gen. studies, BA with hons. (with certain exceptions, see *Note* below): Latin or classical Greek at advanced or ordinary level. BA with hons. in land use studies: maths. at advanced or ordinary level.

Note.—Candidates for the BA with hons. in land use studies, hons. in geog., hons. in geog. & anthropol., hons. in econ. & geog., hons. in econ. & anthropol., hons. in pol. & anthropol., and hons. in pol. & econ., or for the BA in soc. studies, are not required to incl. Latin or Greek as a spec. requirement for matric.

APPL. SCI. BSc in appl. sci. (excl. metall.): a qualif. in maths. at ordinary or advanced level.

BSc in metall.: maths., phys. and chem., of which one must be at advanced level.

LAW. LLB: Latin at either advanced or ordinary level.

(2) Candidates for the BA in fine art may matric. either (a) if they hold a general qualif. to matric., and pass the entrance exam. of the dept. of fine art or otherwise satisfy the hd. of the dept. that they are qualified to take the course; or (b) if they hold a G.C.E. with Engl. and 2 subjs. other than fine art passed at one and the same occasion, and pass the entrance exam. of the dept. of fine art.

(3) Candidates for the (external) degree of BMus do not matric., but must produce evidence of a good general educn.

* The Cert. of Proficiency in Engl. of the Cambridge Local Exams. Syndicate is accepted as equivalent to the ordinary level pass in Engl. lang.
§ (A) = advanced level.

Last Date for Receipt of Applications

For last dates for receipt of applicns., see entries under Durham Colleges (p. 886) and King's College, Newcastle upon Tyne (p. 897).

EXETER

The min. age for admission to a degree course in the univ. is 17 yrs.

The following are eligible for matric.:

(1) Grads. of univs. in the United Kingdom and of such other univs. as may be recog. by the senate for this purpose.

(2) Holders of a General Cert. of Educn. awarded by nos. 3, 4, 5, 6, 7, 8, 9, 10, 11 (see p. 1424), which shows passes in 5 subjs. of which 2 must be at advanced level, and includes (i) Engl. lang., (ii) a lang. other than Engl. selected from the list in group I below, (iii) a subj. selected from the list in group II below. The 2 subjs. at advanced level must have been passed on the same occasion. No subj. may be counted at both ordinary and advanced level.

The list of subjs. acceptable for complying with this regn. is as follows:

Group I. (1) Engl. lang *; (2) Engl. lit.; (3) geog.; (4) hist.; (5) hist. with foreign texts (to be counted as 2 (A) § subjs.); (6) anc. hist.; (7) Engl. econ. hist.; (8) British constitution; (9) econ.; (10) econ. & public affairs; (11) religious knowledge; (12) logic; (13) Latin; (14) Greek; (15) French; (16) German; (17) Spanish; (18) Italian; (19) Russian; (20) Welsh; (21) any other approved lang.; (22) music; (23) art; (24) history & appreciation of art. *Group II.* (25) pure maths.; (26) appl. maths.; (27) maths. (pure & appl.); (28) phys.; (29) chem.; (30) phys.-with-chem.; (31) geol.; (32) general sci.; (33) addtnl. general sci.; (34) bot.; (35) zool.; (36) biol. or general biol. or human biol.; (37) physiol.

The selection of subjs. will be limited as follows: (27) shall not be counted with (25) or (26); (30) shall not be counted with (28), (29), (32) or (33); (32) shall not be counted with (33); (32) or (33) shall not be counted with (28), (29), (30), (34), (35), or (36); (34) shall not be counted with (36); biol. shall not be counted with general biol. or with human biol.; (35) shall not be counted with (36).

(3) Holders of a 1st Sch. Cert. and Higher Sch. Cert. issued by an approved authority, provided that the subjs. included comply with the provisions of regn. (2) above. A credit gained in a 1st Sch. Cert. and a pass at subsidiary level in a Higher Sch. Cert. shall count as a pass at ordinary level, a pass in a principal subject in a Higher Sch. Cert. shall count as a pass at advanced level.

(4) Holders of dipl. in pub. and soc. admin. awarded by the Univ. of Exeter.

(5) Holders of matric. certs. of overseas univs.

of the British Commonwealth or of such foreign univs. as may be recog. by the senate for this purpose.

(6) Exceptionally, other persons whose qualifs. by exam. the senate may deem sufficient.

Faculty Requirements

The above regns. represent the min. entrance requirements of the univ. Candidates for admission to degree courses in the fac. of arts must have included a pass in Latin, and candidates for admission to degree courses in the fac. of sci. must have included a pass in maths. among the subjs. qualifying for matric. In addn., candidates for certain hons. schs. and gen. hons. schs. in the fac. of sci. will be required to have passed in 2 or 3 specified subjs. at advanced level (*see below*).

No addnl. requirements are specified for candidates for admission to degree courses in the fac. of law or the fac. of soc. studies.

Deptl. Entrance Requirements for Hons. Schs. and Gen. Hons. Schs. in the Fac. of Sci.

For admission to the following hons. and gen. hons. schs., qualifs. equivalent to those set out below (in terms of the G.C.E.) are required.

Hons. schs. :—

Bot. Three (A) § passes incl. bot. and chem.

Chem. (A) passes in chem., pure maths. or maths. (pure & appl.) or maths. for sci.

Geog. Entrance qualif. must incl. (A) passes in geog. and another sci. subj.

Geol. (A) passes in any 3 sci. subjs.

Maths. (pure & appl.) (A) passes in pure maths. and appl. maths. (taken as separate subjs.).

Phys. Entrance qualif. must incl. (A) passes in phys. and in pure maths. or in maths. (pure & appl.).

Psychol. No addnl. requirements.

Zool. (A) passes in *either* zool. and 2 of the following: bot., chem., geol., maths., phys., or biol. and 2 of the following: chem., phys., maths.

Gen. hons. schs. :—

Chem. or pure maths. or appl. maths. or phys. as principal or subsid. subj. (A) pass in that subj.

Zool. as principal or subsid. subj. (A) pass in zool. or biol.

Geog. as principal subj. (A) pass in geog.

Addnl. & subsid. subjs. :—

Chem. or geog. or pure maths. or phys. as addnl. or subsid. subj. (A) standard in that subj.

Zool. as addnl. or subsid. subj. (A) standard in zool. or biol.

Bot. or maths. (pure & appl.) as addnl. subj. (A) standard in bot. or maths.

HULL

Matric. (min. age 17) is open to the following, provided they satisfy the appropriate entry requirements for the course they propose to take :

- (i) Grads. of univs. of the United Kingdom or of such other univs. as may from time to time be recog. by the senate for this purpose.
 - (ii) Holders of a General Cert. of Educn., approved as such by the Ministry of Educn., which shows *either* (a) passes in *six* subjects (not necessarily on the same occasion) of which Engl. lang. is one, and of which at least *two* are at advanced level, *or* (b) passes in *five* subjs. of which Engl. lang. is one, provided that at least *three* have been taken on one and the same occasion and that at least *two* of these three are at advanced level.
 - (iii) Holders of a Sch. Cert. in which credit standard was reached at one and the same sitting in *five* subjs. incl. (a) Engl. or Engl. lang., (b) elem. maths., (c) a foreign lang.
 - (iv) Holders of a Sch. Cert. with a credit in at least one subj. and a pass in each of the following groups: (a) Engl. lang.; (b) Engl. lit., hist., geog., scripture; (c) langs. other than Engl.; (d) maths. and sci. subjs., provided that such cert. is combined with either (a) a full Higher Sch. Cert. or (b) a cert. showing passes in 4 subsidiary subjs. in a Higher Sch. Cert. exam. or (c) a G.C.E. showing passes in 3 subjs. at advanced level on one and the same occasion.
 - (v) Qualified teachers provided that they have passed with distinction in at least one of the general subjs. prescribed in a recog. cert. exam.
 - (vi) Holders of a Cert. of Attestation of Fitness issued by the Scottish Univs. Entrance Bd.
 - (vii) Persons matriculated (in the sense defined by the ordinance relating to matric.) in any other univ. of the United Kingdom, provided that they have obtained a pass in Engl. lang. at ordinary level in an exam. for the G.C.E. or a credit in Engl. lang. in a Sch. Cert. exam.
 - (viii) Persons matriculated (in the sense defined by the ordinance relating to matric.) in any univ. in a country, other than the United Kingdom, whose qualifs. have been approved by the senate for this purpose in each individual case.
 - (ix) Holders of the French Baccalauréat de l'Enseignement Secondaire.
 - (x) Holders of the German Universitätsreifezeugnis (commonly called the 'abitur').
- The senate may also declare eligible for matric. :
- (i) A candidate who holds a full practising professional qualif. obtained by exam.
 - (ii) In spec. cases, candidates over the age of 23 yrs. on their submitting to the senate such evidence as it may deem sufficient of

Last Date for Receipt of Applications

Applics. for admission should be made on the prescribed form between Nov. 1 and Jan. 31.

§ (A) = advanced level

|| See p. 1424

previous study and of the capacity and attainments requisite to enable them to pursue the course proposed.

Candidates for matric. who are over the age of 23 yrs. and who do not hold any of the qualifs. required by regns. (i) and (ii) above may, at the discretion of the senate, take an entrance exam. conducted by the univ.

Requirements for Entry to Particular Courses

The following requirements are set out in terms of passes at advanced or ordinary level of the G.C.E. exam.

BA special degree

Classics. Latin (A)* and Greek (O)*. Some previous study of anc. hist. desirable but not essential.

Engl. lang. & lit. Normally Engl. (A) plus either French (O) or Latin (O); Latin (A) desirable. Equivalent of these in some cognate subs. may be accepted in certain cases. In spec circumstances qualifs. less than these may be accepted.

French lang. & lit. French (A) and Latin (O). *Geog.* Normally geog. (A), although consideration of applicants who have not obtained this qualif. is not precluded.

German. Normally German (A), although consideration of those who have not obtained this qualif. is not precluded.

Greek (with Latin). Greek (A) and Latin (O). Some previous knowledge of anc. hist. desirable but not essential.

Hist. Normally hist. (A). Ability to read French is essential and a knowledge of Latin very desirable.

Latin (with Greek). Latin (A). Some previous study of anc. hist. desirable but not essential. Some knowledge of Greek, if only to an elementary stage, desirable; but in approved cases provision will be made for the teaching of Greek to beginners.

Maths. Normally pure maths. (A) and appl. maths. (A) or similar qualif.

Music. Normally music (A) or some equivalent qualif. Engl., hist. or a mod. lang. at (A) or (O) desirable.

Philos. No spec. requirements. Good standard in Greek or Latin, or in French or German, or in maths. or a nat. sci. an advantage.

Psychol. and soc. studies. No spec. requirements.

Theol. No spec. requirements, but an anc. or mod. foreign lang. (A) or at least Latin (O) desirable. Previous knowledge of Hebrew not necessary; course in elementary Hebrew for beginners, forms part of syllabus. Previous knowledge of Greek, though desirable, not essential.

BA joint degree

Engl. Normally Engl. (A) plus either French (O) or Latin (O). Equivalent of these in some

cognate subs. may be accepted in certain cases. In spec. circumstances, qualifs. less than these may be accepted.

Finnish. No spec. requirements.

French. French (A) and Latin (O).

Geog. Normally geog. (A), although consideration of applicants who have not obtained this qualif. is not precluded.

German. Normally German (A), although full consideration of those who have not obtained this qualif. is not precluded.

Government. No spec. requirements.

Greek. Greek (A).

Hist. Normally hist. (A). Ability to read French is essential and a knowledge of Latin very desirable.

Latin. Latin (A).

Law. No spec. requirements. Hist. (O) and Latin (O) desirable.

Maths., appl. Normally appl. maths. (A) or similar qualif.

Maths., pure. Normally pure maths. (A) or similar qualif.

Music. Normally music (A) or some equivalent qualif.

Philos. No spec. requirements. Good standard in Latin, maths. or a nat. sci. an advantage.

Psychol., sociol. and Swedish. No spec. requirements.

Theol. No spec. requirements, but an anc. or mod. foreign lang. (A), or at least Latin (O), desirable. Previous knowledge of Greek, though desirable, not essential.

BSc special degree

Bot. Normally chem. (A) and 2 other sci. subs. at (A).

Chem. Normally chem. (A) plus 2 other subs. at (A) level, one of which will preferably be maths.

Geog. Normally geog. (A), although consideration of applicants who have not obtained this qualif. is not precluded.

Geol. No spec. requirements. Applicants will be expected to show evidence of their interest in geol.

Maths. Pure maths. (A) and appl. maths. (A) or similar qualif.

Philos. No spec. requirements. Good standard in Greek or Latin, or in French or German, or in maths. or a nat. sci. an advantage.

Phys. Phys. (A) plus either pure maths. (A) or appl. maths. (A) or pure & appl. maths. (A).

Psychol. No spec. requirements.

Zool. Zool. (A), chem. (A) and bot. (A). In exceptional cases some variation of these requirements might be accepted.

BSc joint degree

Bot. Normally chem. (A) and 2 other sci. subs. at (A).

Chem. Normally chem. (A).

Geog. Normally geog. (A), although considera-

* (A) = advanced level; (O) = ordinary level

tion of applicants who have not obtained this qualif. is not precluded.

Geol. No spec. requirements.

Maths., appl. Appl. maths. (A)* or similar qualif.

Maths., pure. Pure maths. (A) or similar qualif.

Philos. No spec. requirements. Good standard in Latin, maths. or a nat. sci. an advantage.

Phys. Phys. (A) and either pure maths. (A) or appl. maths. (A) or pure & appl. maths. (A).

*Psychol.** No spec. requirements.

Zool. Biol. (A) or zool. (A).

* Bachelor of Laws

No requirements addnl. to those for matric but desirable that applicants have hist. (O)* and Latin (O).

Bachelor of Sci. in Econ.

Normally one of subjs. at (A) level should be: econ., Engl., geog., hist., a mod. foreign lang. or pure maths. (or equivalent qualif. in maths.). Candidates taking geog. as spec. subj. will normally be required to have this subj. at (A) level. In exceptional circumstances, candidates with lower qualifs. may be admitted but they would normally be required to take 4 yrs. for their degree, incl. a yr. studying for a prelim. exam. Mature students or students with degrees of other univs. may be admitted directly to the 3-yr. hons. course provided they satisfy the hd. of the dept. that they have qualifs. equivalent to normal requirements for entry.

Last Date for Receipt of Applications

Applicns. should be made on the prescribed form preferably by Jan 31 for entry the following Oct.

LEICESTER

Regulations for Matriculation

(1) Candidates for matric. must be at least 17 yrs. of age on Oct. 1 of the yr. of their candidature.

(2) The following are eligible for matric.:

(a) Grads. of univs. in the United Kingdom or of such other univs. as may from time to time be recog. by the senate for this purpose.

(b) Holders of General Certs. of Educn. approved as such by the Ministry of Educn., provided the certs. show either (i) passes in 5 subjs. of which at least 2 must be passed at advanced level; or (ii) passes in 4 subjs. of which at least 3 must be passed at advanced level, the subjs. being chosen from the list set out below.

(c) Holders of Sch. and Higher Sch. Certs. approved as such by the Ministry of Educn., provided the certs. fulfil the requirements of (b) (i) or (b) (ii) above. (A credit in a Sch. Cert. and a pass at subsidiary level in a Higher Sch. Cert. count as a pass at

ordinary level; a pass in a principal or main subj. in a Higher Sch. Cert. counts as a pass at advanced level).

(d) Holders of a Cert. of Attestation of Fitness issued by the Scottish Univs. Entrance Bd.

(e) Qualified teachers, provided they have passed with distinction in at least one of the general subjs. prescribed in a recog. cert. exam.

(3) The senate may also declare eligible for matric.:

(a) A candidate for a res. degree on his submitting to the senate such evidence as it may deem sufficient of his qualifs. for conducting original res.

(b) A candidate who holds a full practising professional qualif. obtained by exam.

(c) A candidate who submits to the senate such evidence as it may deem sufficient of previous serious study and of the capacity and attainments requisite to enable the candidate to pursue the course proposed.

(4) A student whose native tongue is not Engl. must have passed in Engl. lang. at G.C.E. ordinary level or in an exam. accepted by the senate as equivalent.

The subjs. accepted for matric. under regn. 2 (b) are as follows: (1) Engl. lang.; (2) Engl. lit.; (3) French; (4) German; (5) Greek; (6) Italian; (7) Latin; (8) Russian; (9) Spanish; (10) Welsh; (11) art or hist. of art; (12) logic; (13) music; (14) religious knowledge; (15) British constitution; (16) hist.; (17) anc. hist.; (18) Engl. econ. hist.; (19) econ.; (20) biol. or general biol.; (21) bot.; (22) zool.; (23) geog.; (24) geol.; (25) maths.; (26) pure maths.; (27) appl. maths.; (28) chem.; (29) phys.; (30) phys.-with-chem.; (31) general sci.; (32) general sci. (addnl.); (33) hist. with foreign texts.

Note.—Subj. (25) may not be counted with subj. (26) or subj. (27); (30) may not be counted with (28), (29), (31) or (32); (31) or (32) may not be counted with (21), (22), (28), (29), biol. or general biol.; biol. or general biol. may not be counted with (21) or (22); (33) may be counted as 2 advanced level subjs.

Faculty Requirements

ARTS. For the spec. degree in

(a) *Classics or Latin or Greek*: pass in a mod. lang. other than Engl. at (O) or (A) level.

(b) *Engl.*: normally pass, at (O) or (A) level, in Latin and in a mod. lang. other than Engl.

(c) *French or German*: pass in Latin at (O) or (A) level.

(d) *Hist.*: pass in Latin or French at (O) or (A) level.

(e) *Maths.*: pass at (A) level in pure maths. and in appl. maths. or phys.

* (A) = advanced level; (O) = ordinary level

SCI. For the spec. degree in

- (a) *Chem.*: pass at (A)* level in maths or pure maths.
- (b) *Phys.*: pass in maths. (pure and appl.) at (A) level or in pure maths. at (A) level and appl. maths. at (O)* or (A) level.
- (c) *Maths.*: pass at (A) level in pure maths. and in appl. maths. or phys.
- (d) *Engin.*: pass expected at (A) level in two of pure maths., appl. maths., phys.

SOC. SCIS. No spec. requirements in this fac.

Last Date for Receipt of Applications

There is no last date for receipt of applicants, but students are advised to send in their appls. by Jan. 31 for entry in the following Oct.

LONDON

- * *Full particulars of the following requirements can be obtained from the sec. to the univ. entrance requirements dept., Univ. of London, Senate House, Malet St., London, W.C.1.*

Minimum Entrance Requirements

A person may satisfy min. entrance requirements by one of the following methods:

1. THROUGH THE LONDON GENERAL CERT. OF EDUCN. Passes awarded by London Univ. on the exam. for the G.C.E., will be accepted as satisfying min. entrance requirements if the conditions of *either* scheme A *or* scheme B are satisfied.

Scheme A: passes in 5 subs. of which at least 2 must be passed at advanced level.

Scheme B: passes in 4 subs. of which at least 3 must be passed at advanced level.

The following provisions must be fulfilled in both schemes: (a) the subs. must be chosen from the approved list (*see* p. 1443); (b) the restrictions against the combination of overlapping subs. prescribed on p. 1443 must be observed; (c) no subj. can be counted at both ordinary and advanced levels.

Note—There is no requirement that a certain number of subs. must be passed at one and the same time or on a limited number of occasions.

2. THROUGH THE G.C.E. OF OTHER APPROVED EXAMINING BODIES. A cert., or certs, awarded by nos. 3, 4, 5, 6, 7, 9, 10 or 11§ will be accepted as satisfying *either* scheme A *or* scheme B, provided that: (a) subs. offered correspond to those approved (*see* p. 1443) or incl. approved equivalent subs.; (b) the restrictions against the combination of overlapping subs. prescribed on p. 1443 are observed; (c) no subj. is counted at both ordinary and advanced levels.

* (A)=advanced level; (O)=ordinary level

Note.—There is no requirement that a certain number of subs. must be passed at one and the same time or on a limited number of occasions.

3. THROUGH SCHOOL CERTS. AND HIGHER SCHOOL CERTS. Sch. Certs. and Higher Sch. Certs. awarded by London Univ. or by nos. 3, 4, 5, 6, 7, 9 or 10§ will be accepted as satisfying *either* scheme A *or* scheme B provided that: (a) the subs. offered correspond to those approved (*see* p. 1443) or incl. approved equivalent subs; (b) the restrictions against the combination of overlapping subs. prescribed on p. 1443 are observed; (c) no subj. is counted at both ordinary and advanced levels.

Details of the extent to which recognition is accorded to Sch. Certs. and Higher Sch. Certs. are set out on p. 1443.

Note.—(i) Passes in subs. in the approved exams. specified on p. 1443 may be regarded, subject to the conditions set out there, as equivalent to passes at ordinary level in the corresp. subs. of the G.C.E. (ii) The requirements of scheme A *or* scheme B can be satisfied by a combination of certs. issued by more than one examining body. Each examining body (other than the Univ. of London) must be one of nos. 3, 4, 5, 6, 7, 9, 10 or 11§ or be a body responsible for one of the approved exams. specified on p. 1443, and conditions (a), (b) and (c) set out in section 2 above must be fulfilled.

4. BY GRADUATION IN ANOTHER UNIV. A student who has passed all the exams. for a degree of a univ. approved by the senate for the purpose will be considered to have satisfied min. entrance requirements.

5. BY ADMISSION UNDER REGNS. FOR ADVANCED STUDENTS. A person who is admitted to a 1st degree course as an advanced student under the internal or external regns. for advanced students will be deemed to have satisfied min. entrance requirements.

6. BY PROFESSIONAL QUALIFICATIONS. A person who has attained the age of 23 and holds a full practising professional qualif. obtained by exam. may apply to the entrance requirements dept. for his qualif. to be considered as satisfying min. entrance requirements. In order to be considered under this regn. the applicant must show that he holds (by exam.) a qualif. which is either a necessary qualif. for the practice of a recog. profession, or one of the qualifs. which would normally be accepted for a public appt. in the field of that profession. The applicant may be summoned for interview and may be required to pass in addnl. subs. of the G.C.E. or an equivalent exam.

7. BY DIPLOMA IN TECHNOLOGY. A person who has been awarded a dipl. in technol. by the Natnl. Council for Technological Awards (London) will be deemed to have satisfied the minimum entrance requirements.

§ *See* p. 1424

Additional Requirements for Entry in Specific Degree Subjects

The addnl requirements (based on passes in subjs. at the London G.C.E. exam.) for admission to the course of study for the final exam. for each degree of the univ. are as follows :

* **FAC. OF THEOL. *BD degree.*** Candidates who have satisfied minimum requirements may register for the revised BD degree.

FAC. OF ARTS. *BA degrees.* Before admission to the course of study for the BA gen. or BA hons., a candidate who is required to satisfy min. entrance requirements by scheme A or B must do so by means of subjs. selected from the approved list of subjs. set out below, and 2 langs. other than Engl., at least 1 of which must be Latin or Greek [but see concession (ii), below], must be incl. at (O)* or (A)*.

The list of approved subjs. is as follows : Engl. lit. ; geog. ; hist., or Islamic hist., or Indian hist. ; anc. hist. ; econ. ; logic ; religious knowledge ; Latin ; Greek ; classical Hebrew ; French ; German ; Spanish ; Italian ; Russian ; any other approved lang. ; pure maths. ; appl. maths. ; maths. (pure & appl.) ; phys. ; chem. ; phys.-with-chem. ; geol. ; general sci. ; bot. ; zool. ; biol. ; music ; art.

Art (incl. the hist. of art section) can be accepted for entry to any course within the fac. of arts provided that the subj. has been passed at (A) level.

For certain hons. degrees a candidate is advised to offer particular subjs. at the G.C.E. exam. :

1. A candidate for a BA hons. degree in the slavonic or east European field, whether in lang. and lit. or in regional studies, is *required* to have passed at (A) in the relevant slavonic or east European lang. or to possess a knowledge of the lang. equivalent to that required for a pass in the G.C.E. exam. at (A).

2. A candidate for BA hons. in Engl. is *advised* to incl. Engl. at (A) and either Latin or Greek at (A).

3. A candidate for BA hons. in hist. of art is *advised* that the study of European hist., 2 mod. foreign langs. and hist. of art is desirable before beginning the final degree course.

4. For the BA hons. degree in maths., a candidate is required to have passed at (A) in pure maths. and *either* appl. maths. or phys.

5. A candidate who proposes to offer music as a subject in the BA general degree exam. is required to have passed at (O) or (A) in one of the following langs., not being the candidate's mother-tongue : French, German, Italian, Spanish, Latin, Russian. (Applicn. may be made for another lang. to be approved in sp. circumstances).

6. A candidate who intends to proceed to the BA hons. degree in archit. may count art at (O) or (A).

Concessions. (i) A candidate whose mother-

tongue is not incl. in the list of approved langs. may offer Engl. lang. (O) as an approved lang.

(ii) Classical Arabic, classical Armenian, classical Chinese, classical Hebrew, classical Japanese, Pali, classical Persian and Sanskrit may be substituted for Latin or Greek by :

- (a) Candidates who are natives of Asia or Africa and not of European or American parentage. But a candidate whose mother-tongue is Hebrew or Japanese or Persian may not offer classical Hebrew or classical Japanese or classical Persian respectively as his approved classical lang.
- (b) Candidates proceeding to BA hons. degree in hist. (branches III, IV or V).
- (c) Candidates proceeding to an hons. degree in oriental langs. (other than Hebrew). Candidates proceeding to the BA hons. degree in Hebrew are required to offer Latin or classical Greek.
- (d) Candidates proceeding to the BA hons. degree in African studies.
- (e) Candidates proceeding to the BA gen. degree incl. at least 2 oriental langs.

FAC. OF LAWS. *LLB degree.* A candidate must pass the inter. exam. in laws before proceeding to the course of study for the final exam. No exemption may be obtained from the inter. exam. by means of G.C.E. (A) passes.

FAC. OF MUSIC. *BMus degree.* A candidate is required to pass the inter. exam. in music before proceeding to the course of study for the final exam. No exemption may be obtained from the inter. exam. by means of G.C.E. (A) passes. Before admission, a candidate must pass at (O) or (A) in one of the following langs., not being the candidate's mother-tongue : French, German, Italian, Spanish, Latin, Russian (applicn. may be made for another lang. to be approved in sp. circumstances).

FAC. OF MED. *MB BS degrees.* (a) First med. exam. : no requirements in addition to min. entrance requirements. (b) Second med. exam. : before admission to the course of study for the 2nd med. exam. a candidate is required : *either* (i) to pass the 1st med. exam. or (ii) to have satisfied min. entrance requirements and have passed the following subjs. in the G.C.E. exam. : chem. (A), phys. (A), zool. (A) or biol. (A).

BDS degree. As for MB BS degrees.

BVetMed degree. A candidate must pass the vet. pre-clin. exam. before proceeding to the course of study for the final exam. No exemption may be obtained from the vet. pre-clin. exam. by means of G.C.E. (A) passes.

BPharm degree. Before admission to the course of study for the final exams., a candidate must pass the following subjs. in the G.C.E. exam. : chem. (A) ; phys. (A) ; *either* biol. (A) or bot. (A) or zool. (A) ; together with another subj. at (O) or (A), which should preferably be maths.

* (O)=ordinary level ; (A)=advanced level

FAC. OF SCI. A previous knowledge of maths. up to ordinary level will be assumed in respect of all degree courses which incl. a study of phys. or chem. or maths.

BSc (gen.) degree. Before admission to the course of study for the final exam., a candidate must pass in 3 subs. from the following list, of which two must be at (A)*. (1) biol.; (2) bot.; (3) chem.; (4) geol.; (5) phys.; (6) zool.; (7) geog.; (8) pure maths.; (9) appl. maths.; (10) maths. (pure & appl.).

Note.—(a) (1) may not be incl. with (2) or (6); (b) (10) may not be incl. with (8) or (9); (c) at least one of the two (A) subs. must be selected from the group numbered (1)–(6).

BSc (spec.) degree. Before admission to the course of study for the final exams. for the BSc (spec.) in a particular spec. subj., a candidate must pass in the subs. prescribed for that spec. subj. as follows:

Anat. (A) passes in three subs. selected from (1)–(10) above.

Anthropol. (A) passes in two subs. selected from (1)–(10) above.

Astron. (A) passes in three subs. selected from (1)–(10) above, incl. phys. and either pure maths. or maths. (pure & appl.).

Biochem. (A) passes in (i) chem.; (ii) pure maths. or maths. (pure & appl.); and (iii) phys. or biol. or bot. or zool. A candidate who is admitted with a biol. subj. under (iii) but no phys., must pass phys. with an (O)* pass not later than the end of the 2nd term of the course.

Bot. Passes in three subs. of which two must be (A), selected from (1)–(10) above. For those commencing degree courses in and after Oct. 1962 chem. at (O) is compulsory. Chem. (A) plus maths. or phys. (O) are advisable.

Chem. (A) passes in (i) chem.; (ii) phys.; (iii) pure maths. or appl. maths. or maths. (pure & appl.). (*Note:* An internal student may be accepted with (A) passes in: (i) chem.; (ii) phys. or pure maths. or appl. maths. or maths. (pure & appl.); (iii) biol. or bot. or geol. or zool. together with an (O) pass in phys. or a maths. subj. which has not been passed at (A). This qualif. is not approved for external students.)

Geog. (A) passes in two subs. selected from (1)–(10) above.

Geol. (A) passes in two subs. selected from (1)–(10) above. If maths. is not taken at (A) level it must be taken at (O) level.

Maths. (A) passes in (i) pure maths.; (ii) appl. maths. or phys.

Microbiol. Passes in three subs. selected from (1)–(10) above. Two, including chem., to be passed at (A) level. Candidates are advised to pass at (A) or (O) level in phys. or a biological subj.

Phys. (A) passes in: (i) chem.; (ii) phys.; (iii) maths. (pure & appl.) or (i) phys. or (ii) pure

maths.; (iii) appl. maths. or chem. together with an (O) pass in either of the subs. appl. maths. or chem. which has not been passed at (A) or (iii) and after Oct. 1962 (i) phys.; (ii) maths. (pure & appl.); (iii) a subj. (excluding pure maths., appl. maths., and chem.) which must not be chosen from the BSc (gen.) list, and a pass at (O) level in chem.

Physiol. (A) passes in subs. in three of the following groups and an (O) pass in the remaining group; (i) chem.; (ii) phys.; (iii) pure maths. or maths. (pure & appl.); (iv) biol. or bot. or zool. Alternatively, (A) passes in (i) chem.; (ii) phys.; (iii) pure maths. or maths. (pure & appl.).

Psychol. (A) passes in two subs. selected from (1)–(10) above.

Statistics. (A) passes in two subs., one of which must be (8) of the list above.

Zool. Internal passes in three subs. selected from (1)–(10) above, one of which must be maths., and two of which must be at (A). External students must comply with the internal regn. and also pass zool. (A)

BSc(Agric) degree without hons. before admission to the course of study for the final exams. for the BSc(Agric) under these regns. a candidate must pass the 1st exam. in agric.

BSc(Agric) degree with hons. before admission to the course of study for the final exams. for the BSc(Agric) with hons., a candidate must pass at (A) in (i) chem.; (ii) biol. or bot. or zool.

BSc(Hort) degree. Before admission to the course of study for the final exams. for the BSc(Hort), a candidate is required to have satisfied min. entrance requirements and to pass the 1st exam. in agric. and hort.

BSc (Nutrition) degree, BSc (Household Science) degree. Before admission to the course of study for the final exams. for the BSc (Nutrition) or BSc (Household Science), a candidate must pass the following subs.: (i) chem.; (ii) phys.; (iii) biol. or zool.; (iv) maths. The subs. (i) and either (ii) or (iii) must have been passed at (A).

FAC. OF ENGIN. *BSc(Eng) degree.* Before admission to the course of study for the final exams. for the BSc(Eng), a candidate must pass in the following subs.: (i) maths. (pure & appl.) (A); (ii) phys. (A); (iii) chem. (O) or (i) pure maths. (A); (ii) appl. maths. (A); (iii) phys. (A); (iv) chem. (O) or (A).

BSc(Eng), chem. engin. degree. Before admission to the course of study for the final exams. for the BSc(Eng) in chem. engin., a candidate must pass in the following subs.: either (i) maths. (pure & appl.) (A); (ii) phys. (A); (iii) chem. (A); or (i) pure maths. (A); (ii) phys. (A); (iii) chem. (A); (iv) appl. maths. (A) or (O); or (i) appl. maths. (A); (ii) phys. (A); (iii) chem. (A); (iv) pure maths. (A) or (O).

BSc(Eng), mining (mining option) degree. As for BSc(Eng) above.

* (A) = advanced level; (O) = ordinary level.

§ Where reference is made to the BSc (gen.) list above, notes (a) and (b) apply.

BSc(Eng), mining (mineral dressing option) degree.
As for BSc(Eng) in chem. engin. above.

BSc(Eng), metallurgy degree. As for BSc(Eng) in chem. engin. above.

FAC. OF ECON. BSc(Econ) degree. No requirements in addition to min. entrance requirements under scheme A or B.

BSc(Soc) degree. No requirements in addn. to min. entrance requirements under scheme A or B.

BSc(Exam) degree. A candidate must pass the 1st exam. in estate management before proceeding to the course of study for the final exam. No exemption may be obtained from the 1st exam by means of (A)§ passes in the G.C.E. exam.

Approved Subjects in G.C.E. Exam. of London Univ

The list of subsj. which are accepted under schemes A and B of the min. entrance requirements (see p. 1440) is as follows: (1) Engl. lang. (O)§; (2) Engl. lit. (O); (3) geog. (O); (4) hist. (O); (5) Indian hist. (A); (6) Islamic hist. (A); (7) anc. hist. (O); (8) Engl. econ. hist. (O); (9) British constitution (O); (10) econ. (O); (11) logic (O); (12) religious knowledge (O); (13) Greek lit. in translation (O); (14) Latin (O); (15) Greek (O); (16) classical Hebrew (O); (17) mod. Hebrew (O); (18) French (O); (19) German (O); (20) Spanish (O); (21) Italian (O); (22) Russian (O); (23) any other approved lang. (O); (24) pure maths. (O); (25) addnl. pure maths. (O); (26) appl. maths. (O); (27) maths. (pure & appl.) (A); (28) phys. (O); (29) chem. (O); (30) phys.-with-chem. (O); (31) geol. (O); (32) general sci. (O); (33) addnl. general sci. (O); (34) bot. (O); (35) zool. (A); (36) biol. (O); (37) rural biol. (O); (38) music (O); (39) art (O); (40) human anat., hyg. & physiol. (O).

The selection of subsj. under scheme A or scheme B will be subject to the following limitations: subj. (13) cannot be counted with subj. (15) (O) or (A); subj. (17) cannot be counted with subj. (16); subj. (27) cannot be counted with subj. (24) (O) or (A), subj. (26) (O) or (A); subj. (25) cannot be counted with subj. (24) (A) or subj. (27); subj. (30) cannot be counted with subj. (28) (O) or (A), (29) (O) or (A), (32), (33); subj. (32) or (33) cannot be counted with subsj. (28), (29), (30), (34), (35), (36) or (37); subj. (34) cannot be counted with subsj. (36) or (37); subj. (35) cannot be counted with subsj. (36) or (37); biol. cannot be counted with rural biol.

Recognition of School and Higher School Certs.

The holder of a Sch. Cert. or Higher Sch. Cert. awarded by one of the approved examining bodies (see above, p. 1424, nos. 3-10 inclusive) may

§ (A) = advanced level; (O) = ordinary level.

* In exams. marked with an asterisk the acceptable standard is subject to sp. conditions.

|| Recognition has been granted to passes in advanced subsj. in this exam, as being equivalent to (A) level passes in the London G.C.E.

count credits as ordinary level passes in the G.C.E. exam., subsidiary passes as ordinary level passes, and main subj. passes as advanced level passes.

Credits obtained in 1949 or 1950 at a Sch. Cert. exam., or subsidiary passes during the same yrs. at a Higher Sch. Cert. exam., of one of the approved examining bodies (see above, p. 1424, nos. 3-10 inclusive), are accepted as ordinary level passes in the G.C.E. exam.; similarly main subj. passes at a Higher Sch. exam. in 1949 or 1950 will be accepted as passes at advanced level, even if the candidate was not awarded a Sch. or Higher Sch. cert.

Conditions for Acceptance of other Exams.

A subj. entered on a cert. gained in one of the following exams. will be regarded as equivalent to an ordinary level pass in the corresp. subj. at the G.C.E. exam.: nos. 1, 2, 12, 13, *14, 15 (see above, p. 1424); matric. exam. of Durham Univ.; matric. exam. of Univ. of Wales; * passing-out exam. of Royal Naval Coll., Dartmouth; matric. exam. of Nat. Univ. of Ireland; * Leaving Cert. of Dept. of Educn., Eire; Adelaide Leaving Cert.; Melbourne Sch. Leaving Cert.; Melbourne Univ. matric. exam.; New South Wales Leaving Cert.; Queensland Sr. Public exam.; Sydney Univ. matric. exam.; Tasmania Univ. matric. exam.; Schs. Bd. exam. of Tasmania; Tasmania Public Leaving Cert.; W. Australia Sch. Leaving Cert.; graduation exam. of Royal Australian Naval Coll.; N.Z. Univ. entrance exam.; N.Z. Dept. of Educn. Sch. Cert.; * matric. exam. of S. African Jt. Matric. Bd.; Natl. Sr. Cert. (matric. equivalent) of Union of S. Africa; * Secondary Sch. Sr. Cert. of Dept. of Public Educn., Cape of Good Hope; * Transvaal Secondary Sch. Cert.; * Orange Free State Sch. Leaving Cert.; * Natal Sr. Cert.; Ontario Upper Sch. Cert.; British Columbia sr. matric. exam.; sr. matric. exams. of other Canadian univs. and depts. of educn.; * Ceylon govt. Sr. Sch. Cert. (Engl.); Ceylon govt. General Cert. of Educn. (Engl. medium; from Dec. 1957, any medium)—credit standard only; || Hong Kong Univ. matric. exam.; matric. and Sch. Cert. of Palestine Bd. of Higher Studies (Dept. of Educn., Palestine) [only certs. awarded before May 1948]; * Cyprus Cert. exam. of Dept. of Educn., Cyprus; Sch. Cert. of W. African Exams. Council (sp. conditions apply); Sch. Cert. of Sudan Exams. Council.

Candidates holding any of the above certs. may satisfy min. entrance requirements by passing at the G.C.E. exam. in addnl. subsj. at advanced level, together with such ordinary level subsj. as may be required to satisfy the conditions of schemes A or B (see p. 1440).

Recognition of Matric. Qualifs. under Former Regns.

1. A candidate who holds a qualif. or qualifs. which fully satisfy the regns. governing exemption

from the matric. exam. in force before April 30, 1951, but who failed to register as a matriculated student of the univ. before that date, may be granted provisional registration as an internal or as an external student and be permitted to proceed to an inter., prelim. or first exam. provided that his appln. for provisional registration is supported by a sch. or recog. instn. of the univ. or by a public educn. instn.

A candidate who is granted such provisional registration as an internal or as an external student will be deemed to have satisfied the min. entrance requirements when he has passed the appropriate inter., prelim. or first exam. to which he is admitted or when he has reached the required standard in that exam. to permit him to proceed with his degree course, and he will then be deemed to have been registered as an internal or as an external student from the date of his provisional registration.

2. Those students who matriculated before April 30, 1951, by passing the matric. exam. or registering as exempt, are deemed to have satisfied the *minimum* conditions of the new regns.

3. Those students who obtain a statement of eligibility under the min. entrance regns. in force from May 1, 1951, to April 30, 1957, are deemed to have satisfied the *minimum* entrance conditions of the revised regns.

4. Candidates in the London matric. exams held in 1949, 1950 and 1951 are entitled to count subjs. in which they were successful as (O) level even if they did not pass the exam. as a whole.

5. Candidates who passed Engl. at the univ. entrance exams. held between 1951 and 1956 may count the subj. as Engl. lang. (O).

6. Candidates credited with pt. A or pt. B of the matric. may count the subjs. as equivalent to ordinary level subjs. of G.C.E.

Last Date for Receipt of Applications

(see also paragraph on 'Admission' on p 953)

For courses other than those in med., dent. or vet. med., candidates are strongly urged by the colls. to send in their appln.s., where possible, by Dec. 10 of the yr. prior to that in which entry is desired; appln.s. received after Jan. 31 of the yr. in which entry is desired will not normally be considered. For Bedford Coll. and Royal Holloway Coll. appln.s. should, however, be sent in by Nov. 17 and Nov. 30, respectively, of the yr. prior to that in which entry is desired; Univ. Coll. and King's Coll. (for their women students only) require appln.s. to be submitted not later than Dec. 31. The Sch. of Oriental & African Studies receives appln.s. up to Sept. 1 (*i.e.* the month before the opening of the session in which admission is sought).

For admission to the Royal Veterinary Coll., appln.s. should be submitted not later than Nov. 30 of the yr. prior to that in which entry is desired.

For admission to a med. sch., the last date for

receipt of appln.s. is Oct. 31 of the yr. prior to that in which entry is desired.

UNIVERSITY COLLEGE OF NORTH STAFFORDSHIRE*

The following candidates will be eligible for admission to the coll.:

- (a) Grads. of univs. of the United Kingdom, or of such other univs. as may be approved by the senate.
- (b) Holders of a General Cert. of Educn. § showing the minimum qualifs. for entry into univs. and univ. colls., *i.e.*

Scheme A (6 subjs.)—a pass in (a) Engl. lang., (b) one lang. other than Engl. (to be chosen from group II below), (c) one maths. or sci. subj. (to be chosen from group III below), (d) 3 other subjs. chosen from the list of approved subjs.; provided that 2 of the 6 subjs. are passed at the advanced level.

Scheme B (5 subjs.)—a pass in (a) Engl. lang., (b) one lang. other than Engl. (to be chosen from group II below), (c) one maths. or sci. subj. (to be chosen from group III below), (d) 2 other subjs. chosen from the list of approved subjs.; provided that 3 of these subjs., incl. 2 at the advanced level, are passed at one and the same sitting.

Passes at both ordinary and advanced level in the same subj. shall not count as 2 subjs.

Approved subjects. Group I: Engl. lit. or use of Engl.; anc. hist. or anc. civilization or Greek civilization or mediæv. and mod. hist. or biblical hist. and lit.; Engl. econ. hist.; British constitution; British hist.; hist. with foreign texts ||; mod. hist.; geog.; econ.; music or art or hist. of art or religious knowledge or general studies. Group II: Greek; Latin; French; German; Welsh; Spanish; Russian; any other approved lang. Group III: maths. or pure maths. or pure and appl. maths. or maths. and theoret. mechanics ||; appl. maths. (may not be counted with pure and appl. maths.); phys.; chem.; phys.-with-chem.; general sci. I/general sci. II (may not be counted with any of the following: phys., chem., phys.-with-chem., bot., zool., biol.); bot.; zool.; biol. or human biol. (neither may be counted with bot. or zool.); geol.

- (c) Holders of academic certs. or such other proof of academic attainment as may be accepted by the senate as equivalent to (b).

- (d) Candidates who have been engaged in some form of employment provided that they

- (i) have been so engaged for a period of not less than 3 yrs. and during that time have attended systematic courses of study, *e.g.* univ. tutorial classes. *Spec. importance will be attached to the interview. Approved candidates will normally be required to take a spec. entrance exam.;

* Constituted in 1962 as the University of Keele.

§ See above, p. 1424.

|| Counts as 2 advanced level subjs.

- (ii) submit an applcn. to the registrar not later than Jan. 31 of the yr. in which they desire to be admitted;
- (iii) have attained the age of 19 on Oct. 1 of the yr. in which they desire to be admitted;
- (iv) if required, pay an exam. fee of £2.
- (e) Trained certificated teachers, provided they have passed with distinction in at least one of the gen. subj. prescribed in a recognized cert. exam.
- (f) In exceptional cases, holders of such qualifs. as shall satisfy the senate of the high quality of the candidate, provided that these qualifs. show him to be acceptable for the courses offered at this coll.

Candidates for admission who wish to offer as evidence of qualif. educnl. certs. issued by the various branches of the armed forces are advised to consult the registrar concerning their eligibility for admission.

Students from U.K. Dependencies

Students from U.K. dependencies applying for admission should write in the first instance to the hd. of the students branch, Colonial Office, Sanctuary Buildings, Gt. Smith St., London, S.W.1, or to the appropriate representative of their country, informing him that they wish to apply for admission to the Univ. Coll. of N. Staffordshire. No applcn. can be considered by the coll. unless the candidate is sponsored by the Colonial Office or appropriate representative.

NOTTINGHAM

A candidate is eligible to matric. if he is at least 17 yrs. of age on Oct. 1 in yr. of candidature, and possesses one of the following qualifs.:

GENERAL CERT. OF EDUCN. A G.C.E. awarded by nos. 3-10* (see above, p. 1424) which satisfies the following requirements:

1. The cert. must show either (i) a pass in Engl. lang. and in 5 other subj. which incl. (a) a lang. other than Engl. and (b) maths. or an approved sci. Two of the subj. must be passed at advanced level. The required passes must be obtained at not more than three sittings. Or (ii) a pass in Engl. lang. and in 4 other subj. which incl. (a) a lang. other than Engl.; (b) maths. or an approved sci. Two of the subj. must be passed at advanced level at one and the same sitting together with at least one other of the subj. required.

2 The subj. offered by candidates must be chosen from and in accordance with the list given in Appendix A, below. The same subj. may not be counted both at ordinary and advanced level. One, but only one, of the technical subj. in section II of the list may be counted as a subj. at ordinary

level, whether passed at ordinary or advanced level. The approved sci. required under (i) (b) and (ii) (b) above (para. 1) must be chosen from the subj. numbered 22 to 37 in the list in Appendix A, below.

QUALIFICATIONS OTHER THAN G.C.E.

(a) A degree conferred by an approved univ. after exam.

(b) A cert. showing that the holder has attended a 2-yr. full-time teachers' trg. course and has passed a final exam. of an area trg. organization approved by senate for this purpose.

(c) A cert. showing that the holder is a barrister called to the English bar, or a solicitor admitted to the Roll after passing the final exam. of the Law Society. (Dept. of law only).

(d) A qualif. obtained before May 1, 1957, which fully satisfies the univ.'s matric. requirements in force up to that date.

RECOGNITION OF SCHOOL AND HIGHER SCHOOL CERTS. (incl. the Cambridge Oversea Sch. and Higher Sch. Certs.).

(a) A pass with credit in a subj. of an approved Sch. Cert. exam. or a pass at subsidiary standard or in a subsidiary subj. of an approved Higher Sch. Cert. exam. will be accepted in lieu of a pass in the corresp. subj. at ordinary level in the G.C.E.

(b) A pass in a principal subj. of an approved Higher Sch. Cert. exam. will be accepted in lieu of a pass in a corresp. subj. at advanced level in the G.C.E.

(c) The holder of approved Sch. and Higher Sch. Certs. will be eligible to matric. provided that he satisfies the conditions of the various schemes.

RECOGNITION OF OTHER CERTS. A pass in a subj. in any of the following exams. will be accepted as equivalent to a pass in the corresp. subj. at ordinary level in the G.C.E. (a) Nos. 1 and 2. (b) Matric. exams. of the univs. of Durham, London, Wales, Queen's Univ. of Belfast, Trinity College, Dublin, National Univ. of Ireland. (c) Nos. 12 and 13. (d) No. 14. (e) Leaving Cert. of the Dept. of Educn., Eire. (f) Passing-out exam. of the Royal Naval Coll., Dartmouth. (g) No. 15. (h) Forces Prelim. Cert. (i) Exams. qualifying for matric. in an approved British overseas univ.

Candidates holding any of the above certs. may qualify for matric. by passing at the G.C.E. exam. in such addnl. subj., at advanced or ordinary level, as may be required to satisfy the conditions of the various schemes.

Senate will consider individually, and may declare eligible for matric., (a) a candidate educated elsewhere than in the United Kingdom, on his producing satisfactory evidence of having passed exams. equivalent to those named above and of ability to follow instructn. given in English; (b) a candidate admitted by senate to a course of study for a master's degree by res.

* Candidates who wish to claim eligibility to matric. by virtue of a G.C.E. awarded by no. 11 are advised to send details of their exam. to the registrar.

§ See above, p. 1424.

Appendix A

SECTION I. (1) general paper; (2) Engl. lang. (O* only); (3) Engl. lit.; (4) Greek hist. or Roman hist. or anc. hist. or Engl. hist. or British econ. & soc. hist. or European hist. or the hist. of the British Empire or American hist. or hist. with foreign texts (counting as two advanced subs.); (5) geog. or phys. geog. & elem. geol. (O only may not be counted with geol.); (6) econ. or econ. & pol. sci.; (7) religious knowledge; (8) Greek & Roman lit. in translation (may not be counted with Latin or Greek) (O only); (9) art or the hist. & appreciation of art; (10) music; (11) Latin; (12) classical Greek or New Testament Greek or mod. Greek; (13) French; (14) German; (15) Spanish; (16) Italian; (17) Russian; (18) Welsh or Irish or Gaelic or Celtic; (19) Dutch; (20) Danish; (21) any other approved lang.; (22) maths. (may not be counted with pure maths. or appl. maths. or maths. & theoret. mechanics); (23) pure maths. (may not be counted with maths.); (24) appl. maths. (may not be counted with maths.); (25) maths. & theoret. mechanics (advanced level only; counts as 2 advanced subjects and may not count with mechanics or maths. or pure maths. or appl. maths.); (26) phys.; (27) chem.; (28) phys.-with-chem. (O only; may not be counted with phys. or chem. or general sci. I or II); (29) bot.; (30) zool.; (31) mechanics; (32) biol. (may not be counted with bot. and/or zool., general sci. I and/or II); (33) general sci. I (O only); (34) general sci. II (O only). (Nos. 33 and 34 may not be counted with any of the following: phys., bot., zool., chem., phys.-with-chem., biol., hist. of sci.); (35) geol.; (36) elementary physiol. (O only); (37) hist. of sci. (O only; may not be counted with any of the following: phys., chem., bot., zool., phys.-with-chem., biol., general sci. I or II).

SECTION II *Note*.—One subj., but not more, from this section may be counted as an ordinary level subj., whether passed at ordinary or advanced level

(1) comm. (may not be counted with econ.); (2) handicraft; (3) woodwork; (4) metalwork; (5) mechanical sci.; (6) geometrical & engin. drawing; (7) geometrical & machine drawing; (8) bldg. construction & geometrical drawing; (9) engin. & workshop theory & practice; (10) surveying; (11) dom. sci.; (12) pottery; (13) textiles; (14) spinning & handloom weaving.

Industrial Matriculation

A candidate may qualify for matric., solely for the purpose of admission to an inter. course in the fac. of agric. & hort. or of appl. sci., if he possesses:

- (i) a G.C.E. showing passes at ordinary level in Engl. lang., maths. and 3 other subs. which must incl. *either* at least 1 sci. (for admission to the fac. of agric. & hort.) or

phys. and chem. (for admission to the fac. of appl. sci.); *and*

- (ii) an approved Ordinary National Cert. or a dipl. or a qualif. of equivalent standing; *and*
- (iii) approved practical experience appropriate to his proposed course, extending over a period of not less than 2 yrs.

Special Entrance Exam. for Mature Candidates

Candidates unable to qualify for matric. in the normal way but showing promise of being able to profit from a univ. course may at the discretion of the hd. of the dept. concerned be admitted to a spec. exam. held at the univ. in March or Sept. The exam. is open to candidates who are over 21 yrs. of age and consists of an interview and papers in (i) Engl., (ii) three other subs. chosen in consultation with the hd. of dept. Candidates are allowed to attempt this exam. on one occasion only, except by sp. permission of senate on the recommendation of the appropriate fac. bd.

Faculty Admission Requirements

Candidates must not only satisfy the general requirements of matric. set out above, but for admission to certain courses must satisfy also the following spec. requirements. These are set out in terms of the G.C.E. but the univ. will recognize qualifs. of equivalent standard obtained as a result of passing other recog. exams.

Candidates for admission to courses for which no specific requirements are laid down will normally be expected to have a prelim. knowledge (to ordinary standard in the G.C.E. or its equivalent) of the subj. or subs. of the degree course they propose to follow, except for such subs. as theol., philos., law, econ., psychol. or sociol. which are not usually taught in schs.

FAC. OF ARTS. *Degree of B.A.* Candidates (other than those for entry to the schs. of music and maths.) will be required to have passed at advanced level in 2 subs. within the purview of the fac. In addn., candidates for hons. in classics, Engl., French, German and Spanish studies will be required to have passed in Latin at least at ordinary level, and candidates for hons. in med. & mod. hist. will be required to have passed in Latin or a mod. foreign lang. at least at ordinary level. Candidates for admission to the sch. of music must have passed at advanced level in music and another subj. and must show proficiency in performance on the piano, or on some other approved instrument, together with a competent keyboard technique. Candidates for the sch. of maths. will be required to have passed at advanced level in maths. counting as 2 subs.

Degree of B.Mus. Candidates for admission will be required to have a reasonable knowledge of the theory of music, and proficiency in performance of an instrument approved by the hd. of the dept.

* (O) = ordinary level

of music, together with a competent keyboard technique.

FAC. OF LAW & SOC. SCI. Degree of BA. Candidates will be required to have passed at advanced level in any 2 subjs. except that these 2 subjs. must be mathematical subjs. if the degree course includes maths.

Degree of LLB. Exemption from the qualifying exam. may be granted to students who have passed a comparable exam. approved by senate in subjs. relevant to the degree of LLB, but the degree will not normally be awarded until the student has completed 3 yrs. of study in the univ.

FAC. OF PURE SCI. Degree of BSc. Candidates may be exempted from the inter. course and exam. if they furnish evidence of having passed at advanced level in certain specified subjs. in the G.C.E. (normally the subjs. of the 1st yr. final course). Further details from the registrar.

Degree of BPharm. Candidates may be exempted from the inter. course and exam. and accepted for direct entry to the final BPharm course if they have passed at advanced level in chem., phys. and either bot. or zool. or biol.

FAC. OF AGRIC. & HORT. Degree of BSc. Candidates may be exempted from the inter. course and exam. if they furnish evidence of having passed at advanced level in (i) chem., biol., and phys. or maths. or geol. or geog.; or (ii) chem., bot., and zool.; or (iii) chem., bot., or zool. and phys., or maths., or geol., or geog.; or (iv) with the approval of the bd. of the fac. in two of the subjs. named in (i) above.

FAC. OF APPL. SCI. Degree of BSc. Candidates (except for metall.) may be exempted from the inter. course and exam. and accepted for direct entry into the final degree courses if they have passed at advanced level in pure maths., appl. maths. (or pure-&-appl. maths.) and phys., except that they will be required to take a spec. course and exam. in chem. at the end of their 1st yr., unless they have passed in chem. also at advanced level.

Candidates for metall. may be exempted if they have passed at advanced level in maths., phys. and chem.; in exceptional circumstances candidates who have passed only in phys. and chem. at advanced level may be exempted from the inter. exam. in those subjs. and from attendance for the inter. yr., but they will be required to take the course and exam. in inter. pure maths. during their 1st yr.

Last Date for Receipt of Applications

Applicants for admission to courses in the fac. of agric. and hort. should be submitted at least 18 months before entrance is desired, so that advice may be given about the 12 months' pre-entry practical trg., where appropriate.

For all other courses, applicants must be submitted by Jan. 31 in the yr. of entrance.

OXFORD

Admission to the univ. ('matriculation') is without respect of sex, age, nationality or creed, and follows upon admission to a society, i.e. a coll. or hall or St. Catherine's Society. No one can become a member of the univ. unless he first becomes a member of one of these societies. An applicant for admission must therefore be addressed, not to any officer of the univ., but to the proper officer of the society to which admission is desired, i.e. Balliol, Queen's, Magdalen and University—the sr. tutor; Brasenose, New Coll., Jesus, Hertford and Worcester—the tutor for admissions; Lincoln—the coll. secretary; St. Catherine's Society—the dean; in other cases—the hd. of the society. (See colls., etc., under Oxford Univ., pp. 1137-1154). It should be made, if possible, more than 1 yr. before residence is contemplated.

Applicants for admission must normally (a) satisfy the univ. entrance requirements and (b) pass a coll. entrance exam. Societies require certain qualifs. of character and intellectual attainments.

Admission Requirements

The following qualifications will satisfy the admission requirements:

General

Persons accepted by a fac. bd. for admission as sr. students, or as candidates for the degree of BCL or of BPhil or of BSc or of DPhil, or who hold a degree at another univ., such univ. having been approved by the Hebdomadal Council, or as students of mature yrs. recommended by the delegates for extra-mural studies under certain conditions. A cert. of having pursued a course of study extending over 2 yrs. at an approved univ., provided that the applicant has passed all exams. incidental to his course at that univ. and has submitted a cert. of satisfactory progress signed by a competent authority of that univ.; and provided further that the required course of study at an Asiatic univ. has incl. the study of Engl. and has been pursued subsequently to the inter. exam. or to the corresp. stage at a univ. which does not hold an inter. exam.

Great Britain and Ireland

(i) A General Cert. of Educn. awarded by nos. 3, 4, 5, 6, 7, 8, 9, 10 or 11* subject to passing at the ordinary or advanced level in:

(a) Engl. lang. (for those entering the univ. after Oct. 1, 1964, Engl. lang. will be replaced by a new subj. 'Use of Engl.' to be passed, with certain exceptions, not earlier than the first advanced level pass), and

(b) 2 of the langs., Latin, Greek, French, German, Italian, Spanish, Russian, Welsh, Afrikaans (one of these must be Latin or Greek, except for those with an advanced level pass in an approved mathematical or

* See above, p. 1424

scientific subj. or who gain an approved coll. scholp. or exhibition in maths. or sci.), and

- (c) 2 other approved subjs., one of which must be a mathematical or scientific subj.

Passes at advanced level are required in any 2 approved subjs. (except for holders of an approved coll. scholp. or exhibition).

Or (ii) a class in the sr. freshman exam. of Dublin or a cert. of fitness granted by the Scottish Univs. Entrance Bd. or a cert. of having passed in the inter. arts or higher exam. of Birmingham, Bristol, Leeds, Liverpool, London, Manchester, Sheffield, or in the 1st exam. for the BA in gen. studies or the final BA exam. of Durham or in the matric. or entrance exam. of Birmingham, Dublin, National Univ. of Ireland, Wales or in a Scottish Cert. of Educn., or in a Leaving Cert. of the Republic of Ireland Dept. of Educn., or in one of the exams. numbered 2, 13, 14, 15, 16 (*a & b*), 17* (see above, p. 1424), provided that it includes passes *inter alia* in 2 of the above-mentioned langs., of which Latin or Greek must be one (*but see* 'Special Provisions', below).

Other Commonwealth Countries

(i) A cert. of having passed one of the following, provided that it includes passes in 2 of the said langs., of which Latin or Greek must be one (*but see* 'Special Provisions', below): an exam. or exams. conducted by a univ. or other public educn. authority in Canada or New Zealand or Australia which satisfy the requirements for entrance to a univ. in that country, such univ. having been approved by the Hebdomadal Council: Leaving exam. of the Public Exams. Bd. of the Univ. of Adelaide; Leaving Cert. exam. of the Bd. of Secondary Sch. Studies of the New South Wales Dept. of Educn.; matric. exam. of the Univ. of Sydney; Leaving Cert. exam. of the Public Exams. Bd. of the Univ. of W. Australia; Sr. Public exam. of the Bd. of Post-Primary Studies & Exams. of the Univ. of Queensland; Sch. Leaving exam. of Univ. of Melbourne (class B); Schs. Bd. of Tasmania Cert. exam.; the exam. of the 1st yr. at McGill Univ. (BA course), Newfoundland Memorial Univ. or Toronto Univ.; Univ. of Malta matric. exam.; Univ. of Hong Kong matric. exam.; or

(ii) A Ceylon Sr. Sch. Cert. or a Ceylon General Cert. of Educn. or a West African Sch. Cert. or a Sch. Cert. of the West African Exams Council with credits in *inter alia* 2 of the above-mentioned langs., of which Latin or Greek must be one (*but see* 'Special Provisions', below).

Foreign Countries

(i) A cert. of having passed *either* (a) the matric. exam. of the Joint Bd. of the South African Univs., or (b) the Secondary Sch. Cert. exam. of

the Educn. Dept. of the Transvaal or Secondary Sch. Sr. Cert. exam. of the Dept. of Educn. of the Cape Province, or (c) the Sch. Leaving Cert. exam. of the Orange Free State or the National Sr. Cert. exam. of the Dept. of Educn., Union of S. Africa, if by either cert. the holder is qualified for exemption from the matric. exam. of the Joint Matric. Bd. of the South African Univs.; provided that it includes passes in 2 of the above-mentioned langs., of which Latin or Greek must be one (*but see* 'Special Provisions', below); or

(ii) A cert. qualifying for admission to a univ. in Austria, Belgium, Czechoslovakia, Denmark, Finland, France, Fed. Republic of Germany, Greece, Hungary, Iceland, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Spain, Sweden, Switzerland, Turkey or Yugoslavia, provided it shows passes in either Latin or Greek, or a cert. of pt. I of the Baccalauréat de l'Enseignement Secondaire in France, provided it shows passes in 2 approved langs. of which Latin or Greek must be one, or a Sudan Sch. Cert. with credits in *inter alia* 2 approved langs. of which Latin or Greek must be one, or a cert. qualifying for admission to an approved univ. in the U.S.A. provided it shows passes in 2 approved langs. of which Latin or Greek must be one. (*See also* 'Special Provisions', below).

Special Provisions

Natives of Asia and Africa, not being of European or American parentage, can apply for permission to offer a substitute for Latin or Greek in certain of the above certs., or, in certain cases, for English lit. to count in place of an approved lang.

Any requirement of Latin or Greek in the above certs. does not apply to an applicant who *either* holds an advanced level pass in the G.C.E. in an approved mathematical or scientific subj. (or an approved equivalent in some other exam.) or who gains an approved coll. scholp. or exhibition in maths. or sci.

Admission to Privileged Standing: 'Senior Status'

The following may be admitted to the status and privileges of a sr. student:

(1) Any person who has obtained a degree at another univ., such degree and such univ. having been approved by the Hebdomadal Council,§ provided that he shall have pursued a course of study extending over 3 yrs. at the least at a univ. or univs. so approved, or, should the Hebdomadal Council in his case approve, partly at a univ. so approved and partly at another or other univs.

(2) Any person who, having been a student at a univ. in a European country where there is no degree in any way equivalent to that of bachelor of arts but where there are state or univ. exams. at approx. the same stage as the exams. for the

* Latin or Greek must be added to this cert. in the G.C.E.

§ The Hebdomadal Council will not approve any degree of an Indian univ. under this clause unless the course of study leading to it has extended to 3 yrs. subsequently to the inter. exam. In most cases a 1st class is required either in BA hons or BSc hons or MA or MSc.

degree of bachelor of arts, has passed such state or univ. exam., such exam. and such univ. having been approved by the Hebdomadal Council, provided that he shall have pursued a course of study extending over 3 yrs at the least at a univ. or univs. so approved.

(3) Any person who has obtained a degree at another univ. and has also been selected to come to Oxford by some body approved, for the purposes of this section, by the Hebdomadal Council.

(4) Any person who, though not eligible under sub-clause (1) or (2) or (3), has satisfied the Hebdomadal Council that he is particularly well qualified to be admitted as a sr student.

(5) Any med student of a univ. in the British dominions, except India, Pakistan and Ceylon, or colonies or in Gt. Britain and Northern Ireland may be admitted to the status and privileges of a sr. student; provided that the univ. shall have been approved by the Hebdomadal Council and that he shall have pursued at that univ., or, should the Hebdomadal Council in his case so approve, at more than one univ., for at least 3 yrs., a course of study leading to a degree in med. and shall have passed all exams. incidental to that portion of the course.

A sr. student: (a) may reckon his 1st term as his 4th; (b) is not required to pass any part of the 1st public exam.; (c) is entitled to supplicate for the degree of BA after having kept statutable residence for 6 terms, and having (i) obtained a place in the class list of an honour sch. of the 2nd public exam., or been allowed 'aegrotat', or, if disqualified by standing from obtaining hon., shown such merit as would otherwise have entitled him to a place in the class list; or (ii) satisfied the examiners in the 2nd public exam. in the final hon. sch. of nat. sci. in chem., pt. I, or in metall., pt. I.

No sr. student will be entitled to supplicate for the degree of BA except as above.

Incorporation Admission of members of the univs. of Cambridge and Dublin to incorporation: see p. 1156.

READING

The univ. holds no matric. exam.
Matric. min. age 17 (usual age for entry 18), is open to:

1. Grads. of univs. in the United Kingdom or other approved univs.
2. Until further notice—

(a) Persons who have passed or are exempt from the matric. exam. of the Univ. of London.

(b) Persons who have qualified for the cert. issued on the result of an approved first exam. for secondary schs. and who at one and the same exam.* have obtained passes with credit in 5 schs. as follows: (i) Engl.; (ii) Maths. or Latin or Greek; (iii) three schs. not already

offered under (i) and (ii) above, chosen from the following: (1) hist.; (2) geog.; (3) art or music; (4) Greek; (5) Latin; (6) French; (7) German; (8) one other mod. foreign lang. approved by the univ.; (9) maths.; (10) mechanics; (11) phys.; (12) chem.; (13) phys.-with-chem.; (14) bot.; (15) zool.; (16) biol.; (17) general sci.; (18) religious knowledge; provided that (a) persons offering maths. under (i) incl. one of the subj.s. (4) to (8); (b) persons offering (13) may not offer (11) or (12); (c) persons offering (16) may not offer (14) or (15); (d) persons offering (17) may not offer (11), (12), (13), (14), (15) or (16).

Persons desiring to qualify for matric. in virtue of subj.s. not incl. under (iii) should apply to the registrar.

(c) Persons who have qualified for the 2 certs. issued on the results of approved 1st and 2nd exams. for secondary schs.

(d) Persons who have qualified for the cert. issued on the result of an approved 1st exam. for secondary schs. and whose attainments, as shown by the result of an approved 2nd exam. for secondary schs. satisfy the senate.

(e) Persons whose attainments as shown by the results of other approved exams. satisfy the senate.

(f) Persons who, being at least 23 yrs. of age, have passed a spec. exam. for matric. held by the univ. for approved candidates of mature yrs. (Details from the registrar).

In exceptional circumstances, the senate may exempt from exam., as a condition of matric., persons who are able to produce such evidence of previous educn. and attainments as the senate shall deem sufficient.

3. *Persons entering the univ. up to and incl. Oct., 1962*, who have obtained passes in the General Cert. of Educn § in Engl. lang. and in either 4 or 5 other approved subj.s. provided that (a) the subj.s. incl. a lang. other than Engl. and either maths. or an approved sci. subj.; (b) at least 2 of the subj.s. have been passed at advanced level; (c) candidates offering 4 subj.s. only in addition to Engl. lang. have passed at one and the same sitting in 2 subj.s. at the advanced level and in one other subj. not related to the subj.s. offered at the advanced level.

The following subj.s. have been approved for the purpose of this regn. by the senate:

(1) Engl. lang. (O, A) ||; (2) Engl. lit. (O, A) ||; (3) hist. (O, A); (4) anc. hist. (O, A); (5) geog. (O, A); (6) econ. (O, A); (7) logic (O); (8) religious knowledge (O, A); (9) art (O, A); (10) hist. & appreciation of art (O, A) (may not be counted with art); (11) music (O, A); (12) Greek (O, A); (13) Latin (O, A); (14) French (O, A); (15) German (O, A); (16) Spanish (O, A); (17) Italian (O, A); (18) Russian (O, A); (19) other specially approved langs. (O, A); (20) hist. with

* Until further notice, 4 passes with credit at one exam. and one pass with credit obtained at another exam. may be accepted
§ See above, p. 1424.

|| (O) = ordinary level; (A) = advanced level.

foreign texts (A* only; counts as 2 subs. at A level); (21) maths. (O*, A); (22) appl. maths. (O, A) (may not be counted at advanced level unless maths. has been taken at ordinary or advanced level); (23) phys. (O, A); (24) chem. (O, A); (25) phys.-with-chem. (O, A) (may not be counted with phys., chem. or general sci.); (26) bot. (O, A); (27) zool. (O, A); (28) biol. (O, A) (may not be counted with bot. or zool.); (29) geol. (O, A); (30) general sci. (O) (may not be counted with phys., chem., bot., zool., geol. or biol.); (31) physiol. (O) (may not be counted with zool. or biol.); (32) hist. of sci. (O).

The following subs. have been approved by the senate as alternative options to maths. (see clause (a) above): phys., chem., phys.-with-chem., bot., zool., biol., geol., general sci., hist. of sci.

No subj. may be counted at both the ordinary and the advanced level.

For the purpose of clause (c) above, candidates who offer 2 subs. at advanced level chosen from subs. nos. (2)-(20) must offer one subj. chosen from nos. (21)-(32); candidates who offer 2 subs. at advanced level chosen from nos. (21)-(32) must offer one subj. chosen from nos. (2)-(20).

4. A credit obtained in a Sch. Cert. exam. or a pass at subsidiary standard obtained in a Higher Sch. Cert. exam. will, for the purpose of regn. 3 above, be regarded as equivalent to a pass at ordinary level in a G.C.E. exam. A pass at principal standard obtained in a Higher Sch. Cert. exam. will similarly be regarded as equivalent to a pass at advanced level in a G.C.E. exam.

Requirements for Particular Courses

LETTERS. A candidate qualified for matric. on the G.C.E. who wishes, or who is required, to offer Latin in the 1st univ. exam., must normally have obtained a pass at advanced level in the G.C.E. in that subj. before entry. An advanced level pass in Latin is thus normally required of students intending to follow the hon. course in classics, Latin, Greek, Engl., Latin and Engl. lit., Greek and Engl. lit., or Latin and French. A candidate intending to follow the hon. course in French or Italian or a combined hon. course in mod. langs. (French and German, German and French, French and Italian, Italian and French) will normally be required to have passed in Latin at advanced level or to have passed in 2 mod. langs. at advanced level and in Latin at ordinary level. A candidate intending to follow the hon. course in German or in mod. hist. will normally be required to have obtained at least an ordinary level pass in Latin. A candidate intending to follow the hon. course in geog. who wishes to offer geol. in the 1st univ. exam. must have obtained an ordinary level pass in chem.

SCI. No spec. requirements

* (A) = advanced level; (O) = ordinary level.

§ Entry to the fac. in Oct. 1962 will be confined to candidates qualifying for total exemption from the inter. exam. in anticipation of alterations to the regns. for 1st degrees which will come into effect in Oct. 1963 and will provide *inter alia* for the abolition of the inter. course and exam

AGRIC. A candidate intending to follow either the pass or hon. course in agric. or dairying or hort. is normally required to have gained, before entering the univ., one yr.'s practical experience of a type suitable to the particular course he proposes to follow. In the case of dairying, it is preferable that 6 mos. of the period should be spent on a dairy farm and 6 mos. in a dairy factory.*

Exemption from First-Year Courses and Exams.

LETTERS. No exemption from the 1st univ. exam. in arts is permissible, except for grads of approved univs.

SCI. A student may be totally exempted from the inter. exam. if he has obtained passes at advanced level in a G.C.E. exam. or exams (or the equivalent in a London inter. or a Higher Sch. Cert. exam.) in the 3 subs. which he proposes to offer in the general course and final exam. § A student wishing to offer microbiol. in the general course must have obtained advanced level passes in chem. and in 2 of the subs., phys., bot., zool.; if he wishes to offer psychol. in the general course he must have obtained advanced level passes in 3 of the subs., incl. phys. or zool., that may be offered in the course. Exemption from 1 subj. of the inter. exam. may be given if a student has obtained a pass at advanced level in a G.C.E. exam. in that subj. If given such exemption from exam. in a subj. which he proposes to offer in the general course, he may nevertheless be required to attend a course in that subj.

AGRIC. Pass courses are provided in agric., hort. and dairying. First univ. exam. in agric.; the course and exam. are in 2 sections; section A consists of phys., chem., bot., zool. and geol. (the syllabuses for which are the same as those for the inter. exam. in the fac. of sci.), and section B of econ. and the hist. of agric. A student may be exempted from any subj. or subs. of section A in which he has passed at advanced level in a G.C.E. exam. (or the equivalent in the London inter. or a Higher Sch. Cert. exam. or other approved exam.) on the following conditions:

(a) In the exam. he must offer at least one and not more than three of the subs. of section A. A student who would need to offer more than three of those subs. would be required to spend 2 yrs. on the course.

(b) A student intending to follow the pass course in dairying must normally offer phys. whether or not he is eligible for exemption from that subj.; he is not, however, required to offer geol.

(c) A student who has obtained a pass in biol. at advanced level in a G.C.E. exam. (or its equivalent) will normally be exempted from zool. in the exam.

Hons. courses are provided in each of the following subs.: agric. sci., hortic. sci., agric., dairying,

agric. bot., hort. bot., agric. chem. (either in animal nutrition or in soil sci.), agric. econ. These courses are normally divided into yrly. parts; pt. I consists of the inter. exam., the subs. of which are phys., chem., bot. and zool., save that a student following the hons. course in hort. sci. or in agric. bot., or in hort. bot. must offer geol. instead of zool. Total exemption from the inter. exam. may be granted on passes at the advanced level in a G.C.E. exam. in phys., chem., and one of the subs. bot., zool., biol., maths., but all students entering for the hons. course in agric. bot. or in hort. bot. or in hort. sci. would normally be expected to have advanced level passes in phys., chem. and bot. for total exemption. Pts. II, III and IV consist of the course for the hons. subj. which extends over 9 terms. Thus a student who obtains total exemption from the inter. exam. can complete an hons. course in 3 yrs.

Last Date for Receipt of Applications

Applics. for admission should, if possible, be submitted 1 yr. (but not earlier than 18 months) before the proposed date of entry. The closing date for applics. is Jan. 31 of the yr. in which admission is sought.

SOUTHAMPTON

The univ. holds no matric. exam., matric. (min. age 17) being open to persons having one of the following qualifs.:

I. (a) A General Cert. of Educn., approved as such by the Ministry of Educn. (see p. 1424), which shows EITHER (a) a pass in six subs. which incl. (i) Engl. lang., (ii) a lang. other than Engl., (iii) either maths. or an approved sci.*, (iv) at least 2 subs. at advanced level, provided that (1) the required subs. be selected from and in accordance with the prescribed list, (2) no subj. may be counted both at the ordinary and at the advanced level; OR (b) a pass in five subs. which incl. (i) Engl. lang., (ii) a lang. other than Engl., (iii) either maths. or an approved sci.*, (iv) at least 2 subs. at advanced level passed at one and the same sitting together with at least 1 other of the 5 required subs., provided that (1) the required 5 subs. be selected from and in accordance with the prescribed list, (2) no subj. may be counted both at the ordinary and at the advanced level.

The following subs. have been approved by the senate for the purposes of this regn.: Engl. lang.; Engl. lit.; hist.; anc. hist.; anc. hist. & lit. (not to be counted with hist. or anc. hist.); geog.; econ.; Engl. econ. hist.; British constitution; religious knowledge; art; hist. & appreciation of art (not to be counted with art); music; Greek; Latin; French; German; Spanish; Italian; Russian; Welsh; specially approved langs.; maths.; pure maths.; appl. maths.; pure & appl. maths. (not to be counted with pure maths.

or appl. maths., advanced level or ordinary level); phys.; chem.; phys.-with-chem. (at ordinary level only; not to be counted with phys., chem., general sci. or addnl. general sci.); bot.; zool.; biol. (not to be counted with bot. or zool.); geol.; general sci. and addnl. general sci. (at ordinary level only; not to be counted with phys., chem., phys.-with-chem., bot., zool., biol. or geol.); general paper.

The senate may in exceptional cases declare eligible for matric. candidates who do not satisfy the above requirements but can show that they are qualified in (i) Engl. lang., (ii) a 2nd arts subj., and (iii) maths. and/or an approved sci. subj.

(b) A degree of a univ. in the United Kingdom or of such other univs. as may from time to time be recog. by the senate for this purpose.

(c) A cert. as qualified teacher provided that the holder has passed with distinction in at least one of the general subs. prescribed in a recog. cert. exam.

(d) Any candidate whose qualifs. have been specially approved by senate, on the recommendation of the fac. bd concerned, for admission to a course leading to a higher degree of the univ.

II. The senate may declare eligible for matric.:

(a) candidates who do not satisfy the above requirements on their submitting to senate such evidence as it may deem sufficient of having passed exams. equal to any of the above-named and including the requirements of Engl. lang., a foreign lang., maths. or an approved sci. subj.; (b) in spec. cases candidates over the age of 23, on their submitting to the senate such evidence as it may deem sufficient of previous serious study and of the capacity and attainments requisite to enable them to pursue the course proposed; (c) barristers-at-law and solicitors of the supreme court.

III. For the purposes of matric. either the holding of an Ordinary National Cert. or the attainment of a satisfactory standard in the 4th yr. upper sch. exam. of any of the Royal Dockyard schs. shall be deemed equivalent to passes at advanced level in any 2 subs. (other than Engl. lang. or another lang.) in the exam. for the G.C.E.

A pass in the joint pt. I exam. in Engl. of the Instns. of Civil, Mech. and Electr. Engineers shall be accepted as equivalent to a pass in Engl. lang. at ordinary level in the G.C.E. exam.

IV. Students in the univ. who have obtained the cert. in soc. studies after not less than 2 yrs. of residence in the univ. may by spec. permission of the senate be deemed to have been matriculated in the univ. at the beginning of their final yr. of study for the cert. in soc. studies.

Faculty and Deptl. Entrance Requirements

In addition to matric. requirements, candidates for degrees must satisfy the spec. requirements of both the particular fac. and dept. to which entry is sought.

* The following subs. have been approved as alternative options to maths.: phys., chem., phys.-with-chem, bot., zool., biol., geol., general sci.

ARTS. The following are the schools of the fac. with the fac. & dept. entrance requirements :

*Schools for which 3 advanced level passes are required, and ordinary level passes in 2 langs., other than Engl., incl. a classical lang.**

Engl. : advanced level Engl., Latin & 1 other subj. In exceptional circumstances applicants may be admitted who have Engl. and 2 other subjs. at advanced level and who have passed Latin at ordinary level only

Engl. & French : advanced level Engl., French & 1 other subj.

Engl. & music : 3 advanced level passes, 2 of which must normally be Engl. and music.

Engl. & philos. : advanced level Engl. & 2 other subjs

French : advanced level French, Latin and 1 other subj. In exceptional circumstances, applicants may be admitted who have French & 2 other subjs. at advanced level and who have passed Latin at ordinary level.

Geog. : advanced level geog. & 2 other subjs. In this subj. a pass in only 1 mod. lang. other than Engl. is required, though knowledge of a second lang. is desirable.

*Schools for which 2 advanced level passes are required, and ordinary level passes in 2 langs., other than Engl., incl. a classical lang.**

Classics : advanced level Greek & Latin.

Engl. & German : advanced level Engl. & German.

Engl. & Greek : advanced level Greek & 1 other subj.

Engl. & Latin : advanced level Latin & 1 other subj.

Hist. : *Engl. & hist.* : 2 advanced level passes, subjs. not specified. For hist. an ordinary level pass in Latin is normally required.

French & German : advanced level French & German.

French & hist. : advanced level French & at least 1 other subj.

French & Latin : advanced level French and Latin.

French & music : advanced level French & 1 other subj., normally music.

French & philos. : advanced level French & 1 other subj.

French & Spanish : advanced level French & Spanish.

German : advanced level German & 1 other subj.

German & Greek : advanced level German & Greek.

German & Latin : advanced level German & Latin.

Greek : *Greek & philos.* : advanced level Greek & 1 other subj.

Latin : *Latin & mediæv. hist.* ; *Latin & philos.* : advanced level Latin & 1 other subj.

Latin & Spanish : advanced level Latin & Spanish.

Spanish with hist. : advanced level Spanish & 1 other subj.

*Schools for which 2 advanced level passes are required, and ordinary level passes in 2 langs. other than Engl.**

Geog. & hist. : advanced level geog. & 1 other subj. Exemption from the full lang. requirement is sometimes allowed.

German with hist. ; *German & philos.* : advanced level German & 1 other subj.

German & music : advanced level German & 1 other subj., normally music.

Mod. hist. & music : 2 advanced level passes, of which 1 must normally be music.

*Schools in which 2 advanced level passes are required, and matriculation lang. requirement only.**

Hist. & philos. ; *philos.* : 2 advanced level passes, subjs. not specified.

Mod. hist. with pol. & econ. : 2 advanced level passes, 1 of which must be hist. or econ. hist., or British constitution. A pass at ordinary level in a modern lang. other than Engl. is required.

Maths. : advanced level pure and appl. maths.

Philos. & pol. : 2 advanced level passes. Candidates who have not obtained an advanced level pass in econ., or an equivalent qualif., must attend a 1st-yr. ancillary course in econ.

Philos. & pure maths. : advanced level pure maths. & 1 other subj.

SCI. Candidates for admission to any course leading to the BSc must have passed the G.C.E. exam. or equivalent exam. in maths. and satisfied the appropriate entrance requirements specified in deptl. regns., which, except in the case of maths., normally require a pass at advanced level in 3 subjs. Deptl. regns. are as follows :

Bot. Bot. (or biol.), chem. and one other sci. subj.

Chem. Chem., phys., one other sci. subj. In spec. circumstances appl. maths. or other sci. subj. may be accepted in place of phys.

Electronics. Phys., pure maths., and one other sci. subj.

Geog. Geog. and any 2 sci. subjs. and a pass at ordinary level in a mod. lang. other than Engl.

Geol. A pass in 1 arts and 2 sci. subjs. may be accepted. No previous knowledge of geol. is required.

Maths. and maths. with aeronautics. Pure maths. ; appl. maths.

Phys. Phys., maths. and one other sci. subj.

Physiol. & biochem. Chem. and 2 other sci. subjs.

Zool. Zool. (or biol.), chem. and one other sci. subj.

* Unless, of course, these languages have been passed at advanced level.

§ For German and French & German an ordinary level pass in Latin or Greek is normally required.

ENGIN. Advanced level phys., pure and appl. maths. (or pure maths. and appl. maths.), ordinary level chem. in the G.C.E. or equivalent exam.

The Ordinary National Cert. or a pass in the upper sch. exam. of any of the Royal Dockyard schs. are accepted on the same terms as for matric., but a candidate seeking to qualify in maths. by virtue of the Ordinary National Cert must have passed in that subj. with distinction.

SOC. SCIS. There are no fac. requirements, other than matric., except that advanced level geog. is normally required if this is offered as a spec. subj. and advanced level maths. is normally required for the sp. subj. of stats.

LAW. No sp. requirements other than matric., but candidates will find it an advantage to have studied Engl. hist. and Latin up to the standard of G.C.E. ordinary level.

Overseas Students

Applics. from overseas students must be accompanied by certs. from recognized educn. authorities testifying as to educn. qualifs., character and financial provision. Applicants whose native lang. is not Engl. are required to pass a test in Engl. satisfactory to the univ. Applics. should be submitted as follows:—(a) *Commonwealth students* residing overseas should apply through their local dept. of educn. or student advisory committee, and those residing in the British Isles should apply through their students' unit in London. The applicn. should be accompanied by a request for an official recommendation. The univ. does not normally consider applics. without this recommendation. (b) *Other overseas students* must normally submit their applics. through the official representative of their country in London.

Last Date for Receipt of Applications

The closing date for the receipt of applics. is Jan. 31 of the yr. in which entry is sought. Applicants for entry to the fac. of engin. who propose spending a yr. in industry before admission to the univ. should apply to the univ. during their last yr. at sch.

SUSSEX

Minimum Admission Requirements

1. Candidates for admission must be at least 17 yrs. of age on Oct. 1 of the yr. in which they seek to be admitted.

2. The following are eligible for admission:

- (i) Grads. of univs. in the U.K., or of such other univs. as may be recog. for this purpose.
- (ii) Holders of General Certs. of Educn. awarded by one of the examining bodies* approved by the Ministry of Educn., subject to the following conditions:

- (a) The certs. must show passes in 5 or more subjs., incl. Engl. lang., a lang. other than Engl., and a subj. from group II below;
- (b) At least 2 of the subjs. must have been passed at advanced level;
- (c) If only 5 approved subjs. are shown in all, at least 2 subjs. at advanced level and one other subj. must have been passed at one and the same sitting;
- (d) No subj. may be counted both at ordinary and at advanced level; and
- (e) The subjs. must be chosen from and in accordance with the following list:

Group I. (1) Engl. lang.; (2) Engl. lit.; (3) anc. hist. or Greek civilization; (4) hist.; (5) geog.; (6) econ.; (7) music; (8) art; (9) religious knowledge; (10) Greek; (11) Latin; (12) French; (13) German; (14) another approved lang. Group II: (1) maths. or addnl. maths. or pure maths.; (2) pure & appl. maths.; (3) appl. maths.; (4) phys.; (5) chem.; (6) phys.-with-chem.; (7) bot.; (8) zool.; (9) biol.; (10) geol.; (11) sci. or general sci.

N.B.—1. The following combinations of subjs. in group II cannot be accepted: (2) and (1) or (3); (6) and (4) or (5); (9) and (7) or (8); (11) and (4), (5), (6), (7), (8), (9) or (10).

2. Subjs. not listed may be accepted in certain circumstances; each case will be considered on its merits.

- (iii) Holders of Sch. Certs. and Higher Sch. Certs. awarded by an approved authority, provided that the subjs. included comply with the provisions of (ii) above. A credit in a Sch. Cert. and a pass at subsidiary standard in a Higher Sch. Cert. will count as a G.C.E. pass at ordinary level, and a pass at principal standard in a Higher Sch. Cert. will count as a G.C.E. pass at advanced level.
- (iv) Holders of a Cert. of Attestation of Fitness issued by the Scottish Univs. Entrance Bd.
- (v) Holders of matric. certs. of overseas univs. of the British Commonwealth, or of approved foreign univs., provided that they have passed in Engl. lang. at G.C.E. ordinary level, or in an exam. accepted as equivalent thereto.
- (vi) Qualified teachers, provided they have passed with distinction in at least one of the general subjs. prescribed in a recog. cert. exam.
- (vii) Holders of the Army Special Cert. of Educn.
- (viii) Candidates who have satisfied the examiners in the passing-out exam. of the Royal Naval Coll., Dartmouth.
- (ix) Candidates who have passed the Forces Prelim. exam., subj. to interview.

* See above, p. 1424

3. The following may be declared eligible for admission :

- (i) Candidates who do not satisfy any of the requirements listed in para. 2 above, but who submit satisfactory evidence of having passed exams. which are deemed equivalent to any of those listed, and which include the subjs. Engl. lang., a foreign lang., and maths. or a sci.
- (ii) Candidates who hold a full practising professional qualif. obtained by exam.
- (iii) In special cases, candidates over 23 years of age on their submitting satisfactory evidence of previous study and of the capacity and attainments requisite to enable them to pursue the course proposed.
- (iv) Candidates for a res. degree on their submitting evidence of sufficient qualifs. for conducting original res.

Last Date for Receipt of Applications

4. Applicns. for admission should be made on the prescribed form before Jan. 31 of the yr. in which admission is sought.

Requirements for Entry to Particular Courses

These are still under consideration.

YORK

Details of admission requirements will be announced in 1962.

WALES

The Univ. of Wales no longer holds a matric. exam. and admission is now mainly determined on candidates' performance at the exams. for the General Cert. of Educn. conducted by the Welsh Joint Educn. Cttee. and/or nos. 3-9 and 11.*

For candidates seeking matric. through the exams. for the G.C.E., the approved subjs. § are : (1) Engl. lang. (O)§; (2) Engl. (O, A)§; (3) Welsh lang. (O); (4) Welsh (O, A); (5) scripture (O, A); (6) hist. (O, A); (7) Greek & Roman hist. (O, A); (8) Greek (O, A); (9) Latin (O, A); (10) French (O, A); (11) German (O, A); (12) any other lang. approved by the univ. (O, A); (13) econ. (O, A); (14) maths. (O); (15) pure maths (A); (16) appl. maths. (A); (17) pure & appl. maths. (A); (18) mechanics (O); (19) phys. (O, A); (20) chem. (O, A); (21) bot. (O, A); (22) zool. (A); (23) biol. (O, A); (24) geol. (O, A); (25) practical plane & solid geom. (O); (26) geometrical & machine drawing (O); (27) general sci. (O); (28) agric. sci. (O); (29) geog. (O, A); (30) music (O, A); (31) art (O, A); (32) domestic subjects (O); (33) engin. sci. (O).

Candidates may not count more than one of the subjs. in each of the following groups : (1) and (3); (14), (15) and (17); (14), (16), (17); (18), (19); (19), (33); (21), (23); (22), (23); (25), (26); (27), (28). No candidate who counts (27) or (28) may count one of (18)-(24), and no candidate

may count at advanced level both (30) and (31). The same subj. may not be counted at both ordinary and advanced levels.

In order to satisfy min. entrance requirements, a candidate must pass in (i) Engl. lang. or Welsh lang., and *either* 4 or 5 other subjs., at least 2 of which must be passed at the advanced level; (ii) an addtnl. lang. other than that selected under (i); (iii) maths. or an approved sci. subj. § Candidates who have passed in only 4 subjs. in addition to Engl. lang. or Welsh lang. must have passed on one and the same occasion in 3 subjs., at least 2 of which are at advanced level.

The min. age for matric. is 17 yrs.

Note.—The certs. of candidates desiring to matric. must in general comply either with the exam. requirements for matric. in force at the time of the award of the certs. or with the present exam. requirements.

Exempting Exams.

A grad. of an approved univ. or coll., or a barrister-at-law, or a solicitor of the supreme court of judicature in England and Wales, or an advocate or other legal practitioner in Scotland, or a med. practitioner registered in the United Kingdom, or a candidate who has qualified for the univ. dipl. in theol. may qualify for matric.

United Kingdom. Nos. 13 and 15* provided that candidate has passed in Engl. lang., a lang. other than Engl., maths. or an approved sci. subj., and 2 other approved subjs.

Other parts of the Commonwealth and foreign countries. The matric. exam. of a univ. in Canada, Australia, New Zealand or South Africa which is listed in the *Commonwealth Universities Yearbook*; or of the Univ. of Hong Kong, provided that the candidate passes in the subjs. required.

The matric. exam. of an approved univ. in Belgium or Holland, the inter. exam. in arts or sci. of an approved univ. of India or Pakistan, or of the univs. of Malta or Ceylon, or the exams. for the French baccalauréat, or the Iraqi baccalauréat, together with a cert. of fitness from the Iraqi Ministry of Educn., if certified in each case by a constituent coll. of the Univ. of Wales to possess a sufficient knowledge of Engl.

The matric. exams. of the Swiss univs., the Royal Norwegian Ministry of Church and Educn., the Palestine Bd. of Higher Studies, the entrance exams. of the Univ. of Iceland; the Secondary Educn. Cert. exam., part II, of the Egyptian Ministry of Educn. (with pass in spec. part); provided in each case that the candidate passes in the subjs. required.

A pass with credit in a subj. in the Ceylon Sr. Sch. Cert. (Engl.) exam. is recog. as equivalent to a pass at the ordinary level in that subj. at the G.C.E. exafus., provided that the passes at the ordinary level comply with the grouping requirements and are supplemented by 2 passes at the advanced level in an exam. conducted by the

* See above, p. 1424.

§ Subj. nos. (18)-(29) are approved sci. subjs.

|| (O)=ordinary level; (A)=advanced level.

Univ. of London (or any other approved examining body).

Special Exemptions

Candidates of 23 or more yrs. of age, if specially recommended by one of the constituent colls. as having reached a satisfactory standard of educn.

Candidates of 20 or more yrs. of age, who have been either full-time pupils for at least 2 yrs. at an approved adult sch. or have been candidates for a univ. dipl. and for at least 1 yr. full-time students at a constituent coll. or an associated theol. coll., are not required to satisfy the condition of passing in 2 subjs. at the advanced level, and may have passed in only 4 subjs. in addn. to Engl. lang. or Welsh lang., of which one must be a lang. and one maths. or an approved sci. subj., provided in each case that they are specially recommended by a constituent coll. for admission.

Candidates who have passed the appropriate Ordinary or Higher National Cert. exam. or Ordinary or Higher National Dipl. exam. at a recognized teaching centre, after 2 yrs. at least in industry, have passed in Engl. lang. at the G.C.E. exam., and are recommended for an approved degree course by a constituent coll. may qualify for matric.

Last Date for Receipt of Applications

Applicants for admission should obtain a form of applicn. from the registrar of the constituent coll. they wish to enter. Completed applicn. forms should be returned to the coll. registrar by Jan. 31 (Dec. 1 for med. students) preceding the academic yr. of entry.

Faculty and Deptl. Requirements

Aberystwyth U.C. For hons. in hist. candidates must have at least a translation knowledge of Latin and French. For schemes of study containing chem. a sufficient knowledge of phys. is required, and for admission to final courses in zool. an adequate knowledge of chem. is required. For certain courses in rural sci. it is advisable to have a period of practical farm experience.

Bangor U.C. (a) Candidates for admission to an hons. course in Greek, Latin, Engl., French, Hebrew and hist. must, before entry on pt. II hons., submit evidence that they have obtained a pass at the ordinary level in Greek or Latin in the G.C.E. or have reached an equivalent standard. (b) Candidates for hons. in Latin or Hebrew must have completed before admission to the 2nd yr. of the full hons. course, the pt. I course in Greek or its equivalent; candidates for hons. in Greek must have a corresponding qualif. in Latin. (c) Candidates for admission to an hons. course in hist. must satisfy the hd. of dept. that they have an adequate reading knowledge of Latin. (d) Candidates for admission to an hons. course in music must satisfy the hd. of dept. that they have adequate executive ability in one practical subj. (e) Hons. in for. is restricted to those who have maths., chem., phys., at ordinary level, and passes

at advanced level in 2 or more of the following: chem., phys., bot., zool.

Cardiff U.C. For Latin, French or maths. a pass at advanced level or equivalent is required. For hons. in hist. usually a translation knowledge of Latin and French is required.

Swansea U.C. For hons. in hist. candidates must have an adequate reading knowledge of Latin, or French, or German, or Welsh. For hons. in phys. candidates should have advanced level passes in phys. and maths. For hons. in chem. candidates should have advanced level passes in phys. and chem. For degree courses in engin. candidates should have advanced level passes in maths. and phys., and preferably also in chem. For degree courses in metall. and chem. engin. candidates should preferably have advanced level passes in maths., phys. and chem.

Welsh National Sch. of Med. It is not a condition of entry that a student should pass in any particular subj.

Exemptions from Intermediate Courses, etc.

The BA hons. course is one of 3 yrs., but students may be required to spend 4 yrs. over the course. Normally 3 passes at advanced level, and sometimes 2, ensure entry to a course requiring only 3 yrs.' pursuance. For entry to depts. the subjs. of which are not normally taught in schs., recognition is sometimes given to passes at advanced level in subjs. which are allied or considered to be suitable equivalents.

The BSc hons. course is one of 4 yrs., but students may be exempted from the inter. course in subjs. passed at advanced level; this makes possible the completion of an hons. course in 3 yrs. Admission to the 2nd-yr. course of subjs., which cannot usually be taken at sch., may be granted by virtue of advanced level passes in subjs. regarded as allied or ancillary, e.g. admission is possible to 2nd-yr. courses in metall. and in engin. for those with advanced level passes in maths., phys. and/or chem.

SCOTTISH UNIVERSITIES ENTRANCE BOARD

Secretary: R. A. McL. Davidson, CMG, MA,
Kinburn House, St Andrews, Scotland

Summary of Qualifications for Admission to Degree Courses in Scottish Univs.

No applicant for admission to a degree course in any Scottish univ. may be accepted unless he (a) holds the Cert. of Attestation, which is issued by the Scottish Univs. Entrance Bd to those who have proved their educn. fitness in one or other of the ways specified below and (b) possesses the specific educn. qualifs. required for the particular fac. (or curriculum within a fac.) of the individual univ. which he desires to enter (*see below*, pp. 1458-1463).

The Cert. of Attestation is issued by the Scottish Univs. Entrance Bd. to those who have proved their educn. fitness in one or other of the following ways :

(1) Applicants who have been admitted to an approved degree (other than honorary) of a British or recog. overseas univ.

(2) Applicants who have obtained passes in the Scottish Leaving Cert. awarded at the end of the 5th or subsequent yr. of the secondary* course in not more than 2 sessions of exam. in subjs. taken from the following groups : I. higher Engl., hist., and geog.; II. maths., addnl. maths. (*i.e.* passes at 1 session in any 2 of dynamics, geom., elem. analysis), sci. (*i.e.* any 2 of phys., chem., bot., zool.); III. Latin, Greek, French, German, Italian, Spanish, Gaelic, Hebrew, Russian; IV. higher art, higher music, higher technical subjs., phys.-with-engin. The bd. requires at least 4 passes to be obtained on the higher standard, or 3 on the higher and 2 on the lower standard. There must always be higher passes in Engl. and in 2 subjs. selected from group II and/or group III; and there must be passes in at least one subj. from group II and one from group III. If there is no pass on the higher standard in a group III subj., there must be a pass in higher maths.

(3) Applicants who present General Certs. of Educn. issued by any of the examining bodies, 3-10* (and passes awarded by 11* in, and after, 1959), showing that passes have been obtained (in subjs. recog. by the bd.):

Either in 6 subjs. (gained at any no. of sittings) which incl. (i) Engl. lang.; (ii) either maths. or a recog. sci.; (iii) an approved lang. other than Engl.; (iv) at least 2 subjs. passed at advanced level of which one must be a subj. classified under group II or group III below. (*Note*.—No subj. may be counted both at the ordinary and at the advanced level).

Or in 5 subjs. which incl. (i) Engl. lang.; (ii) either maths. or a recog. sci.; (iii) an approved lang. other than Engl.; (iv) at least 3 subjs. passed at advanced level, of which one must be a subj. classified under group II or group III below, and the 3 from not fewer than 2 groups. (*Notes*.—(i) no subj. may be counted both at the ordinary and at the advanced level; (ii) 3 passes must have been gained at one and the same sitting, of which 2 must be at the advanced level and the 3 from not fewer than two separate groups).

The subjs. recog. by the bd. are as follows. Group I: Engl. lang., Engl. lit.; geog.; anc. hist., mod. hist. Group II: maths. (pure); appl. maths. (theoret. mechanics); phys.; chem.; bot.; zool.; geol.; phys.-with-chem.; biol.; general sci. Group III: (a) Latin; Greek; French; German; Italian; Spanish; Gaelic; Hebrew; Russian; and, at the advanced level, (b) Afrikaans; Arabic; Bulgarian; classical Chinese; classical Japanese; Czech; Danish; Dutch; Finnish; Hausa; Hindi; Hungarian; Icelandic; Irish; mod. Greek; Norwegian;

Pali; Persian; Polish; Portuguese; Roumanian; Sanskrit; Serbo-Croat; Sinhalese; Swahili; Swedish; Tamil; Turkish; Urdu; Welsh. *Notes*.—(a) The bd. does not recognize as an advanced level pass in Latin or Greek a pass obtained in an exam. in which the candidate has not offered both translation from and composition in the lang. (b) Classical Greek and mod. Greek are mutually exclusive for purposes of attestation, as are Hindi and Urdu and Afrikaans and Dutch. Candidates offering Hindi must use the Devanagari script; those offering Urdu must use the modified Persian script.

The bd. does not recognize aegrotat passes awarded by any of the examining bodies 3-11.*

In and after 1963 the bd. may cease to recognize advanced level passes for the purpose of its regms. unless they are obtained at some prescribed grade above that of the minimum pass mark.

Note 1—(a) The following will be treated as if they were passes at the ordinary level: (i) a very good pass or a pass with credit, obtained in a Sch. Cert. exam. incl. the W. African Sch. Cert. and Sudan Sch. Cert. exams.; (ii) a pass in a subsidiary subj. (or at subsidiary standard) obtained in a Higher Sch. Cert. exam.; (iii) a pass at ordinary standard in a London matric. exam.; (iv) a very good pass or a pass with credit, obtained in the Sr. Sch. Cert. exam. or the G.C.E. exam. of the Educn. Dept. of Ceylon; or, a pass obtained in the Higher Sch. Cert. exam. of the Educn. Dept. of Ceylon. (b) The following will be treated as if it were a pass at the advanced level: a pass at main or principal standard obtained in a Higher Sch. Cert. exam. *Note*: a complete pass in the prelim. exam. of colls. in sp. relation with the Univ. of London, that is, passes in 3 recog. subjs. at one session of exam., will be deemed to count as 2 advanced level passes towards attestation.

Other Recognized Examinations

(4) A Sr. Cert. of the Ministry of Educn., N. Ireland, issued in 1952 or later, will be accepted if it contains passes in at least 6 subjs. recog. by the bd., incl. Engl. lang.; Engl. lit.; a lang. other than Engl. and a mathematical or scientific subj., on condition that at least 3 of the passes are at the advanced level, one of these 3 being either in a lang. other than Engl. or in a mathematical or scientific subj., and that all 6 passes have been gained at not more than two separate sessions of exam. A sr. cert. gained at one session of exam. may be supplemented by a pass or passes gained at one session of the matric. exam. of the Queen's Univ. of Belfast; a pass in this exam. will count as the equivalent of a pass at the advanced level in a cert. of 1952 or later yr. An applicant who has passed at not more than two sittings the matric. exam. of the Queen's Univ. of Belfast in Engl., maths., a lang. other than

* See above, p. 1424

Engl., and in 2 other subj. incl. in the groups mentioned in (3), qualifies for attestation.

(5) Passes at 50 per cent, or better, shown in a cert. qualifying the applicant for entry on a degree course in arts, pure sci. or med. at a recog. univ. of the Republic of Ireland, Canada, Australia, New Zealand or of the Republic of South Africa, if they are in subj. recog. by the bd., will count (1) as passes at ordinary level if the holder completes his quals. by means of the G.C.E. exam. (clause (3) above), or (2) as passes on the lower standard if he completes by the Entrance Bd.'s prelim. exam. at any one session of that exam. (clause (2) above). Alternatively a cert. signed by the registrar of a recog. univ. in these countries stating that the applicant has completed satisfactorily the first 2 yrs. of a course leading to a degree in arts, pure sci. or med., and has duly passed in all the subsj. of his course up to that point, will qualify for the Cert. of Attestation. The bd. will not consider applns. from persons who have failed to pass all the relevant exams. of the first 2 yrs. of an approved degree course, unless they can demonstrate that their failure is attributable to sp. circumstances, e.g. prolonged illness. In all such cases, applicants must submit full details accompanied by appropriate official evidence.

(6) Evidence of the satisfactory completion of the 2nd yr. of a course leading to a degree in arts or pure sci. or of the pre-med. course, of a univ. or coll. in the U.S.A. (other than a jr. coll.) appearing in the current list publ. by the American National Cttee. of Regional Accrediting Agencies, will qualify for the bd.'s Cert. of Attestation if the applicant's academic record shows grades averaging not below B in such of the following subsj. as have been incl. in the first 2 yrs. of his academic course: Engl., foreign langs., maths. (pure and appl.), sci., hist., geog., art and music.

(7) A sch. leaving, matric. or univ. entrance cert. awarded in any one of the following countries and qualifying unconditionally for entrance on a course leading to a degree in arts, pure sci. or med. in a recog. univ. of that country, is acceptable: (a) if it contains passes of 'satisfactory' (or higher) grade in 6 of the subsj. detailed in para. (3) above, and these incl. (1) the lang. of the country issuing the cert.; (2) a 2nd recog. lang.; and (3) either maths. or a recog. sci.; and (b) if at least 2 of these passes (which must incl. Engl. or a subj. of group II or group III [taken in the written exam.]) are graded as 'very satisfactory'; and (c) on condition that it is supplemented by (1) a London Univ. or Cambridge Cert. of Proficiency in Engl.; or (2) a pass in spec. Engl. (or in ordinary Engl. from 1962) in the Entrance Bd.'s prelim. exam.; provided that exemption from this condition will be granted if the grade 'very satisfactory' has been awarded in Engl. (written and oral). A cert. that fails to satisfy clauses (a) and (b) of this rule for want of a 6th subj., or in respect of the grade of pass required in one subj. only, may be made good by a pass of the requisite

standard in an appropriate subj. obtained either (1) in a subsequent session of the original exam., or (2) in the Entrance Bd.'s prelim. exam., in which the pass must be on the higher standard; or (3) in the English G.C.E. exam., in which the pass must be on the advanced level.

The countries are: Norway, Sweden, Denmark, Iceland, Holland, Belgium, France, Luxembourg, Switzerland, Western Germany, Italy, Spain, Portugal and Finland.

APPENDIX A: List of Approved Languages

Latin; Greek; French; German; Italian; Spanish; Gaelic; Hebrew; Russian; and, in addn., the following langs.: Afrikaans; Arabic; Bulgarian; classical Chinese; classical Japanese; Czech; Danish; Dutch; Finnish; Hausa; Hindi; Hungarian; Icelandic; Irish; mod. Greek; Norwegian; Pali; Persian; Polish; Portuguese; Roumanian; Sanskrit; Serbo-Croat; Sinhalese; Swahili; Swedish; Tamil; Turkish; Urdu; Welsh.

New Regulations to take Effect from February 1, 1962

CANDIDATES PRESENTING SCOTTISH CERTS. OF EDUCN. OF THE SCOTTISH EDUCN. DEPT. From and after February 1, 1962, the regns. relating to the conditions upon which the Scottish Certs. of Educn. of the Scottish Educn. Dept. will be accepted as qualifying for the bd.'s Cert. of Attestation will be as follows:—

(1) Passes shown on a Scottish Cert. of Educn. shall be accepted as qualifying for the bd.'s Attestation of Fitness, if they satisfy in respect of subsj., numbers and standards of pass, and sessions of exam., the conditions set out below. A pass awarded (in 1961 or previously) on the lower grade will be accepted as a pass on the ordinary grade. Passes awarded in 1949 or earlier in the Sr. Leaving Cert. exam. of the Scottish Educn. Dept. will count equally with passes obtained in this exam.: provided that a pass in any subj. entered on a cert. awarded in the years 1940-45 inclusive shall qualify only if the bd. is satisfied, on evidence furnished by the Scottish Educn. Dept., that the applicant has reached an adequate standard of attainment in that subj.

(2) The subsj. which are recognized as qualifying are the following. Group I: Engl. Group II: *On the higher grade:* maths.; sci. (any 2 of phys., chem., bot., zool.), addnl. maths. (i.e. passes at one session in 2 of the 3 papers, dynamics, geom., elem. analysis). A candidate who passes in all 4 branches of sci. on the higher grade will be deemed to have passed in 2 subsj. on the higher grade. *On the ordinary grade:* maths.; phys.; chem.; bot.; zool. A pass in sci. on the lower grade (in 1961 or earlier) will be accepted as a pass on the ordinary grade in a group II subj. Group III: Latin; Greek; French; German; Italian; Spanish; Gaelic; Hebrew; Russian. *Note.*—

For Gaelic on the ordinary grade the bd. will recognize the paper set for native speakers and not that for learners. Group IV: *On the higher grade*: hist.; geog.; music. Group V: *On the higher grade*: art; technical subs.; phys.-with-engin.

Notes.—(1) A pass in phys with-engin. will not be accepted together with a pass in technical subs., nor with a pass in higher sci. which includes phys., nor with a pass in higher phys. as a single subj. in the prelim. exam. (2) A pass in phys.-with-engin. will be regarded as a pass on the higher grade in a subject of group II if it is supplemented by satisfactory performance in any one of chem., bot., zool. taken on the higher grade, either at the same session of the examination or consistently with (5) below.

(3) There must be: (i) 4 passes on the higher grade, including at least 2 in subs. chosen from groups II and III; or (ii) 3 passes on the higher grade, 2 at credit standard; or (iii) 3 passes on the higher grade, one at very good standard

(4) There must be: (a) a pass on the higher grade in subs. chosen from each of 2 of groups I, II and III; and (b) a pass on the higher or on the ordinary grade in a subj. chosen from the third of these groups.

(5) All the passes on the higher grade required to satisfy (3) and (4) (a) above must have been gained either at not more than 2 separate sessions of this exam. or at one session of this exam. and at one session of the Scottish Univs. Prelim. Exam.

Special Provision. The Scottish Univs. Entrance Bd. recognizes passes at the ordinary level of the General Cert. of Educn. exam. as counting towards attestation in lieu of passes on the ordinary grade of the Scottish Cert. of Educn. exam. provided that the subs. are identical.

Note.—The bd. has decided to fix the 'credit' and 'very good' standards at 60 per cent. and 70 per cent. respectively. Passes at these levels obtained before the issue by the Scottish Educn. Dept. of 'Supplements for University Entrance' will not be recognized.

SCOTTISH UNIVERSITIES PRELIMINARY EXAMINATION. (1) These rules regulate the conditions upon which passes in the Scottish Univs. Prelim. exam. will qualify for the bd.'s Attestation of Fitness, and the rules formerly in force are revoked. A pass awarded (in 1961 or previously) on the lower grade will be accepted as a pass on the ordinary grade.

(2) The subs. included in the Prelim. Exam. are the following. Group I: Engl. Group II: *On the higher grade*: maths.; phys.; chem.; sci. (any 2 of phys., chem., bot., zool. and geol.); addnl. maths. (i.e. passes at one session in 2 of the 3 papers, dynamics, geom. and elem. analysis). A candidate who passes in any 4 branches of sci. on the higher grade will be deemed to have passed in 2 subs. on the higher grade. A pass in higher phys. as a single subj. will not be accepted along with a pass in higher sci. which includes phys. as a branch. A similar rule *mutatis mutandis* applies

to higher chem. If there are 3 passes in subs. selected from group II, one of these passes must be in maths. *On the ordinary grade*: maths.; phys.; chem.; bot.; zool. Group III: (a) Latin; Greek; French; German; Italian; Spanish; Gaelic; Hebrew; Russian; and (b) *On the higher grade at credit standard*: Afrikaans; Arabic; Bulgarian; classical Chinese; classical Japanese; Czech; Danish; Dutch; Finnish; Hausa; Hindi; Hungarian; Icelandic; Irish; mod. Greek; Norwegian; Pali; Persian; Polish; Portuguese; Rumanian; Sanskrit; Serbo-Croat; Sinhalese; Swahili; Swedish; Tamil; Turkish; Urdu; Welsh. *Note*—Classical Greek and mod. Greek are mutually exclusive for purposes of attestation, as are Hindi and Urdu and Afrikaans and Dutch. Candidates offering Hindi are required to use the Devanagari script; those offering Urdu are required to use the modified Persian script. Group IV: *On the higher grade*: hist.; geog.; music.

(3) There must be: (i) 4 passes on the higher grade, including at least 2 from subs. chosen from groups II and III; or (ii) 3 passes on the higher grade, 2 at credit standard; or (iii) 3 passes on the higher grade, one at very good standard.

(4) There must be: (a) a pass on the higher grade in subs. chosen from each of 2 of groups I, II and III; and (b) a pass on the higher or on the ordinary grade in a subj. chosen from the third of these groups.

(5) All the passes on the higher grade required to satisfy (3) and (4) (a) above must have been gained either at not more than 2 separate sessions of this exam. or at one session of this exam. and at one session of the Scottish Cert. of Educn. exam.

Special Provision. The Scottish Univs. Entrance Bd. recognizes passes at the ordinary level of the General Cert. of Educn. exam. and on the ordinary grade of the Scottish Cert. of Educn. exam. as counting towards attestation in lieu of passes on the ordinary grade in the Scottish Univs. Prelim. exam. provided that the subjects are identical.

Note.—A candidate whose native lang. is other than Engl. and who can show that the bulk of his secondary educn. has been conducted through the medium of a lang. other than Engl. will be deemed to have passed on the higher grade in Engl. if he produces evidence that he has passed in all 3 sections of the Cert. of Proficiency in Engl. awarded by the Cambridge Local Exams. Syndicate or the Univ. of London and may be deemed to have passed on the ordinary grade if he produces evidence to show that he has passed in 2 of the 3 sections.

ABERDEEN

Before admission to a degree course in the univ. a student must satisfy (a) the requirements of the Scottish Univs. Entrance Bd. (see above, p. 1455)

and (b) any relevant regns. for entrance to particular classes (*see below*).

There is no min. age limit for admission to the univ.

Regulations for Entrance to Particular Classes

In general the Cert. of Educn. Fitness issued by the Scottish Univs. Entrance Bd. is accepted as enabling a student to enter any graduating class. In the case of maths., however, a student will be so admitted only if he has passed in that subj. on the higher standard in the Scottish Leaving Cert. exam. or the univ. prelim. exam. or an equivalent test, or otherwise satisfies the hd. of dept. of his fitness to attend the class: in the case of Greek, Hebrew, Arabic, Syriac and music, a student will be so admitted only if he has passed in the subj. concerned either in the Scottish Leaving Cert. exam. or the univ. prelim. exam. or has otherwise satisfied the hd. of the dept. concerned of his fitness to attend the class. In the case of Roman law (for the degrees of MA and LLB) a student must have passed in Latin in his Leaving Cert. or in the univ. prelim. exam., or satisfied the prof. of jurisprudence that he has an adequate knowledge of the subj.

Last Date for Receipt of Applications

Applicns. for admission to the univ. to commence study in Oct. must be lodged on the prescribed form for each degree course not later than May 31 (for all facs.). It is desirable that applicns. from overseas should be received by the sec. to the univ. not later than April 30 each yr.

EDINBURGH

Before admission to a degree course in the univ. a student must satisfy (a) the requirements of the Scottish Univs. Entrance Bd. (*see above*, p. 1455) and (b) any relevant regns. for entrance to particular classes (*see below*).

There is no min. age limit for admission to the univ.

Regulations for Entrance to Particular Classes

The following prelim. passes are required for entrance to certain classes and for entering or following the curricula for certain hon. groups. If a student intends to take a curriculum containing a class which requires a special qualif., it is desirable that he should have included this qualif. in his Scottish Leaving Cert. (or its equivalent), but failing this he may take the subj. in the univ. prelim. exam.

ARTS AND COMM. The spec. entrance qualifs. for particular classes or hon. groups in the fac. of arts are set out below. These qualifs. are normally stated in terms of higher or lower grade passes in the Scottish Leaving Cert. or the Prelim. Exam. Equivalent evidence of proficiency will, however, be accepted. Where a pass on the higher grade is specified, a pass at advanced level in the English General Cert. of Educn., or

a pass at principal level in the English Higher School Cert., will be accepted. Where a pass on the lower grade is specified, a pass at ordinary level in the English Gen. Cert. of Educn., will be accepted. The ordinary grade pass to be instituted by the Scottish Educn. Dept. in 1962 will count in lieu of a pass on the lower grade.

Accounting and business method. Either (a) attendance at and satisfactory performance in the class exam. for the elem. course in accounting and business method or (b) sufficient trg. in an office or elsewhere. (Applications for exemption from attendance at the elem. course in virtue of (b) will be considered).

Anc. (Greek & Roman) hist. Latin, on at least the lower grade.

Arabic: ordinary class. A knowledge of the grammar of the lang. and ability to read a simple text. An elementary class may be taken in the univ.

Archaeol.: hon. (a) A pass on the higher grade in a classical or mod. foreign lang.; (b) a pass on the lower grade in Latin if the lang. offered in (a) is other than Latin.

Archit. For the particular entrance requirements for the classes of architectural design, structural design IV, and hist. and theory of archit. II, apply to the sec. to the univ.

Astron. A knowledge of maths. as represented by the 1st ordinary course in maths. and of dynamics as represented by the prelim. exam.

British hist. *See hist.*

Celtic: ordinary class. A pass in the lang. on the higher grade, or some equivalent evidence of proficiency, which will, if necessary, be tested by an exam. in the 1st week of the autumn term. An elem. class may be taken in the univ.

Civil law. Latin, on at least the lower grade.

Eccles. hist. Latin, on at least the lower grade.

Engl.: hon. A pass on the higher grade in Latin or in Greek or in a mod. foreign lang. Students should have a reading knowledge of at least one mod. foreign lang.; for those specializing in lit. or mediev. studies, preferably French, and, in lang., preferably German.

European hist.: hon. *See hist.*

Fine art: hon. A reading knowledge of at least one mod. foreign European lang. Applicants for entry upon the curriculum must pass an entrance test prescribed by the coll. of art.

French: ordinary class. A pass in the lang. on the higher grade, or some equivalent evidence of proficiency, which will, if necessary, be tested by an exam. in the 1st wk. of the autumn term.

French: inter. and hon. Latin, on at least the lower grade. For hon. in French lang. and lit., higher Latin is required.

German: ordinary class. As for French.

Greek: ordinary class. As for Celtic.

Hebrew. A knowledge of Hebrew grammar (as in Davidson's *Introductory Hebrew Grammar*), and ability to read simple prose, such as the *Book of Ruth*, or the narratives of *Genesis*. There are univ. classes in elem. and jr. Hebrew.

History: hons. Students proceeding to hons. in hist. must have a reading knowledge of 2 foreign langs., chosen from the following—Latin, French, German, Italian, Spanish and Russian—subject to the restriction that hons. students who wish to specialize in mediæv. hist. must offer Latin and that those who wish to specialize in mod. history must offer French as one of their 2 langs. A pass on the lower or ordinary standard in the Leaving Cert. exams. of the Scottish Educn. Dept. or some equivalent evidence of proficiency is required for this purpose. A test may, if necessary, be taken in the hist. dept. Spec. requirements for admission to certain classes:—European hist. hons. I: Latin and either French or German; European hist. hons. II: Latin and French; European hist. hons. III or IV: 2 foreign langs. of which 1 must be French; British hist. documents (a): Latin; British hist. documents (b): Latin and French; France under Charles VII (1422–61): Latin and French; British foreign policy and the diplomatic revolution, 1740–60: French

Icelandic: ordinary class. As for Celtic.

Italian: ordinary class. As for Celtic.

Italian: inter. and hons. Latin, on at least the lower grade.

Latin: ordinary class. As for French.

Mathematical phys. A pass in maths. on the higher grade.

Maths. For students entering the 1st ordinary class (in the fac. of arts) a pass in maths. on the lower grade is required. For those proceeding directly to the 2nd ordinary class (maths. I in the fac. of sci.), a pass in maths. on the higher grade is required.

Meteorol. An elementary knowledge of mechanics, general phys. and heat.

Music. A pass in music on the higher grade.

Natural philos. (phys.). For students entering the 1st ordinary class (in the fac. of arts) a pass in maths. on the lower grade is required. For those proceeding to higher courses, a pass in maths. on the higher grade is required.

Persian: ordinary class. As for Arabic.

Russian: ordinary class. As for Celtic.

Sanskrit. As for Arabic.

Scottish historical studies: hons. (a) A pass in Latin on the lower standard in the Leaving Cert. of the Scottish Educn. Dept. or some equivalent evidence of proficiency. (b) A pass in Latin, French or German on the higher standard if the lang. is offered as an outside suby.

Scottish history: hons. As for British hist. hons. I.

Soc. anthropol.: hons. A reading knowledge of French or German.

Spanish: ordinary class. As for Celtic.

Spanish: inter. and hons. Latin, on at least the lower grade. For hons. in Spanish a reading knowledge of French is required

Technical maths. A pass in maths. on the higher grade.

Turkish: ordinary class. As for Arabic.

Music. For music in arts, a pass in music in the Leaving Cert., or some equivalent evidence of proficiency. For the course leading to the BMus, a pass in music on the higher standard in the Leaving Cert. and evidence of general proficiency, which may be tested in a qualifying exam. held in June and Sept. consisting of 1 written paper and an oral and practical test.

SCI. For admission to degree courses in pure sci. or in appl. sci.—passes in maths., phys. and chem. on the higher standard in the Leaving Cert., or some equivalent evidence of proficiency. In certain cases for admission to degree courses in pure sci. the requirement of higher phys. and chem. may be relaxed. Besides these general requirements, entrance qualifs. as for arts are required for maths., technical maths., phys. (nat. philos.), chem., astron., meteorol.

AGRIC. In addition to the above general requirements—evidence of a complete 12 months' experience, covering the 4 seasons, on an approved farm.

LAW. Civil law. A pass in lower Latin in the Leaving Cert. or some evidence of a sufficient knowledge of the lang.

MED. AND DENT. SURG. A student, before commencing the curriculum for graduation, must have the cert. of Attestation of Fitness. Prospective students are advised to incl. elementary phys. and chem. in their sch. or pre-univ. studies.*

Recognition of Institutions Outside the United Kingdom

ARTS. Undergrads. who have attended courses in another univ. may apply for exemption from one (not the final) yr. of the course for MA or for BCom, and from attendance on classes in 2 subys. Grads. of another univ. may apply for exemption from exam. as well as attendance. Each applicn. will be considered on its merits.

SCI. Certain courses (1st yr. only) may be taken in other univs. or instns. approved by the univ. court. The Higher Sch. Cert. is not regarded as qualifying for exemption.

LAW. The arts degree of certain approved univs. in the Commonwealth and in the United States of America is recognized for admission to the LLB course. Two of the 3 yrs.' study for LLB may be taken at one of the following recog. instns.: the univs. of Oxford, Cambridge and Dublin; the Inns of Court; the Madras Law Sch.; the Maharaja's Law Coll., Trivandrum; Ripon Coll., Calcutta; Univ. of Rangoon; McGill Univ.; King's Coll., London School of Economics and University Coll. (Univ. of London). The exemption granted is only in respect of attendances at classes, not of exam.

MED. AND DENT. SURG. Recognition may be given to courses taken in the 1st 2 yrs. of the

* Applicants for exemption should be addressed to the dean of the fac. of med.

curriculum at any univ. of the United Kingdom or at such Commonwealth or foreign univ. or coll. or under such teachers as may be recog. by the univ. court.

Exemption from First-Year Classes

- * If the applicant is a grad. in the equivalent fac. of another recog. univ. he may be exempted from 1st-yr. classes.

Last Date for Receipt of Applications

Forms of Applcn. for admission may be obtained from the matric. office, and should be completed and returned not later than the following dates prior to the Oct. in which admission is sought: Nov. 30 (med.), April 1 (music), May 31 (arts, sci.), Sept. 1 (law).

GLASGOW

Before admission to a degree course in the univ. a student must satisfy (a) the requirements of the Scottish Univs. Entrance Bd (see above, p. 1455) and (b) any relevant regns for entrance to particular classes (see below).

There is no min. age limit for admission to the univ.

Regulations for Entrance to Particular Classes

ARTS.

- (a) Ordinary classes of Humanity, Greek, French, German, Italian, Hispanic studies, Russian, Polish, Czech, Gaelic, Welsh, Arabic, Norwegian, sr. class of Hebrew.
- (b) Ordinary classes of maths. nat. philos and astron.

Attendance on any of these classes shall not, except as hereinafter provided, qualify for graduation unless before admission to the class the student has produced evidence that he has passed in the subj. of the class (for (b), in maths.), on the higher standard (where different grades exist) in the Leaving Cert. or the prelim. exam or on the corresp. standard in another exam recog. as equivalent: but a student not so qualified, if for spec. reasons he has been admitted to any of these classes by the hd. of the dept. concerned and has passed in the subj. of the class (for (b), in maths.) on the higher standard in the spring prelim. exam of the same academic yr., may make applcn. to the senatus for the recognition of such pass, and, if such recognition is granted, his attendance and class record will be allowed to qualify for graduation.

- (c) Inter. classes of Humanity, Greek, moral philos.; higher classes of Engl., French, German, Italian, Hispanic studies, Norwegian, Arabic, Russian, Polish, Czech, Gaelic, Hebrew, logic, pol. econ., hist., Scottish hist., econ. hist., maths., nat. philos., astron., geog., music, hist. of fine

art., classes of Greek hist., Engl. lang., soc. econ. and stats.

Attendance on any of these classes shall not qualify for graduation on the higher standard unless, before admission to the class, the student has obtained a pass on the ordinary standard in the subj. in which he is taking a double course.

- (d) Higher classes of Engl., French, German, Italian, Hispanic studies, Hebrew, hist.; hon's. classes of Engl., French, German, Italian, Hispanic studies, hist., Scottish hist. & lit.

Attendance on any of these classes shall not normally qualify for graduation unless, before admission to the class, the student has produced evidence that he has passed in Latin or Greek on the higher or the lower standard in the Leaving Cert. or the prelim. exam or in another exam recog. as equivalent: but the fac. of arts shall have the power to accept in lieu of such a pass such other evidence of proficiency in the subj. concerned as it may deem equivalent.

(e) Hons. class of Hebrew. Attendance on this class shall not normally qualify for graduation in arts unless, before admission to the class, the student has produced evidence that he has passed in Greek on the higher or on the lower standard in the Leaving Cert. or the prelim. exam. or in another exam. recog. as equivalent, or that he has diligently attended a non-qualifying class in Greek, but the hd. of the dept. shall have power to accept such other evidence of proficiency in Greek as he may deem equivalent. Each case in which this power has been exercised shall be reported to the fac. of arts, and the admission of a student under this provision shall be subject to confirmation by that fac.

(f) Ordinary class of music. Attendance on this class shall not normally qualify for graduation unless, before admission to the class, the student has either (a) produced evidence that he has passed in music on the higher standard in the Leaving Cert. exam, or (b) attended the elem. class and satisfactorily performed the class work; but the hd. of the dept. shall have power to accept such other evidence of proficiency in music as he may deem equivalent. Each case in which this power has been exercised shall be reported to the fac. of arts, and the admission of a student under this provision shall be subject to confirmation by that fac.

(g) Hons. classes of Humanity and Greek. Attendance on either of these classes will not qualify for graduation unless before admission to the class the student has produced evidence that he has passed on the higher standard in the other of the 2 langs. concerned in the prelim. or the Leaving Cert. exam. or in another exam. recog. as equivalent.

(h) Hons. class of Gaelic. Attendance on this class will not qualify for graduation unless, before admission to the class, the student has passed in the degree exam. in Latin on at least the ordinary standard.

(i) Degree of EdB. Except by spec. permission of the senatus, a candidate who holds his previous degree from a univ. outside the British Isles may not complete the work of the dipl. stage of the degree in less than 2 yrs.

(j) Bachelor of Music. Attendance on a course in music will not qualify for the degree of BMus unless, before admission, the student has satisfied the prof. of music that he is able profitably to pursue the work of the qualifying course and has passed a spec. exam. in specified subj.

SCI.

(1) Ordinary classes of maths., nat. philos. and astron. Attendance on any of these classes shall not, except as hereinafter provided, qualify for graduation unless, before admission to the class, the student has produced evidence that he has passed in maths. on the higher standard in the Leaving Cert. or the prelim. exam. or on the corresp. standard in another exam. recog. as equivalent; but a student not so qualified, if for spec. reasons he has been admitted to any of these classes by the hd. of the dept. concerned and has passed in maths. on the higher standard in the spring prelim. exam. of the same academic yr., may make applicn. to the senatus for the recognition of such pass, and, if such recognition is granted, his attendance and class record will be allowed to qualify for graduation.

(2) Classes in double-course subjects. Attendance on any of these classes shall not qualify for graduation on the higher (double-course) standard unless, before admission to the class, the student has passed on the ordinary (single-course) standard in the same subj.

(3) Before presenting themselves for exam. in a double-course subj. candidates must have attended at least 2 qualifying courses in that subj. One of these courses must be a higher course, and all courses in any subj. except maths. must incl. practical or lab. work.

(4) A qualifying course in any subj. shall normally extend over 3 terms, but the senatus, with the approval of the univ. court, may sanction partial courses of not less than one term's duration, and 2 or 3 such partial courses shall be held to be equivalent to a full normal course in such cases as the senatus, with the approval of the univ. court, may determine and under such rules as may from time to time be made for that purpose.

ENGIN.

(1) Maths. (1st course) and maths. (2nd course). These classes may not be taken in the same academic yr. except by express permission of the fac. of engin.

(2) Maths. (1st course) and nat. philos. (ordinary). Attendance on these classes shall not normally qualify for graduation in engin. unless, before admission to the class, the student has produced evidence that in the Leaving Cert. or the prelim. exam., or in another exam. recog. as equivalent, he has passed in maths. on the higher standard, or that he has diligently attended a non-

qualifying course in maths.: but the hd. of each of the depts. concerned shall have power to accept such other evidence of proficiency in maths. as he may deem equivalent.

Exemption from Courses

Most ordinances for degrees provide for the recognition of attendance at other univs. Each case is considered on its merits. Applicants may be granted exemption from 1st yr. (in facs. of engin., med., sci.) in respect of advanced level passes in the General Cert. of Educn.

Last Date for Receipt of Applications

Forms of applicn may be obtained from the registrar after Jan. 31, and must be completed and returned to him between May 15 and May 31 (facs. of med.) and not later than May 31 (facs. of arts, engin. and sci.).

Overseas students must lodge forms of applicn. before April 30 (all facs.).

ST. ANDREWS

Before admission to a degree course in the univ., a student must satisfy (a) the requirements of the Scottish Univs. Entrance Bd. (see above, p. 1455) and (b) any requirements for admission to a particular fac. (see below).

There is no min. age limit for admission to the univ.

Requirements for Entrance to Particular Facs.

ARTS. Higher passes in the Scottish Leaving Cert. or Scottish Univs. Entrance Bd.'s. prelim. exam., or advanced level passes in the General Cert. of Educn (or equivalent qualif.) in (a) Latin or Greek, or (b) maths. and one of French, German, Spanish, Arabic, or (c) two of French, German, Spanish, Arabic.

SOC. SCI. No sp. fac. requirements.

SCI. In the Scottish Leaving Cert. or the Scottish Univs. Entrance Bd.'s. prelim. exam., (a) passes in higher maths. and in higher sci.; (b) on the lower standard in whichever of the subjs. chem. or phys. has not been passed at the higher standard.

In the G.C.E. exam., passes (a) in 2 of the subjs., appl. maths., biol., bot., chem., geol., maths., phys., zool., one of which must be chem., maths., or phys., at least to advanced level, (b) at the ordinary level in whichever of the subjs. chem., maths., or phys. has not been passed at the advanced level.

Qualifs. equivalent to either of the above may be accepted:

APPL. SCI. A pass in maths. on the higher standard in the Scottish Leaving Cert. (or equivalent qualif.). Applicants should also possess a pass in higher sci. (phys. and chem.) in the Scottish Leaving Cert. or passes at least on the

ordinary level in phys. and chem. as separate subjs. in the G.C.E.

LAW (BL). A pass in Latin on at least the lower standard in the Scottish Leaving Cert. or a pass on at least the ordinary level in the G.C.E., or some equivalent qualif.

• **MED. AND DENT.** No sp. fac. requirements.

Regulations for Entrance to Particular Classes

FAC. OF ARTS. Students wishing to attend the general class in Greek, Latin, Hebrew, French, German, Spanish, Arabic or music for the purpose of graduation must have a pass in the subj. concerned on the higher standard in the Scottish Leaving Cert. exam. or some equivalent qualif. The study of German, Spanish, Hebrew and Arabic may be begun at the univ. For entry to classes in maths., nat. philos., chem., astron. and stats., see below.

FAC. OF SCI. Students wishing to attend the gen. or 1st sci. class in maths., appl. maths., astron. or phys. for the purpose of graduation must have a pass in maths. either on the higher standard of the Scottish Leaving Cert. exam., or on the addnl. ordinary or alternative ordinary syllabus of the G.C.E. exam., or some equivalent qualif. Students wishing to attend the gen. or 1st sci. class in chem. or phys. for the purpose of graduation must have passed in sci. (chem. and phys.) on the higher standard of the Scottish Leaving Cert. exam., or at the ordinary level of the G.C.E. exam. in the separate subjs. chem. and phys. For attendance at the gen. or 1st sci. class in stats., a pass in maths. or appl. maths. in the gen. MA or 1st BSc exam. is a prerequisite.

Last Date for Receipt of Applications

Applicns. for admission should be lodged with the dean of the appropriate fac. as early as possible after Oct. 1 of the yr. preceding that in which admission is desired, and not later than May 31.

BELFAST

Students must be at least 17 yrs. of age by Oct. 15 of the yr. in which entry is sought.

The matric. exam. comprises Engl. and 4 of the following selected in accordance with the regns. (a) maths.; (b) Greek; (c) Latin; (d) French; (e) German; (f) Italian; (g) Spanish; (h) Celtic; (i) Russian; (j) anc. hist.; (k) mod. hist.; (l) phys.; (m) appl. maths.; (n) geog.; (o) chem.; (p) bot.; (q) zool.; (r) for med. or appl. sci. and technol.—mech. drawing; (s) for facs. of arts, law and med.—music. For arts, med. and appl. sci. and technol., one lang. other than Engl. must be taken; for sci. and agric.—French, German or Russian; for sci., agric., med., econ. and appl. sci. and technol., maths. must be taken—candidates for fac. of arts may, under certain conditions, take Latin or Greek instead of maths. For the fac. of appl. sci.,

phys. is compulsory; for students of chem. technol. and of pharmaceuticals, chem. is compulsory; for the facs. of sci., of agric., and of med. both phys. and chem. are compulsory.

A candidate who has passed in at least 3 subjs., but failed to pass the exam. as a whole, is allowed to complete his matric. at the next subsequent exam.

Exempting Exams.

Candidates who have passed any of the following exams. are admitted as matriculated students, provided that if they have not passed in all the subjs. required by the univ. for matric. in the respective facs. they shall be required to pass in the addnl. subjs. at one and the same matric. exam.

Great Britain and Ireland—Nos. 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 (see above, p. 1424), provided that in the cases of nos. 3 to 11 inclusive passes have been obtained in (i) Engl. lang., (ii) a lang. other than Engl., (iii) maths. or an approved sci. and (iv) three other subjs., 2 of the 6 to be passed at advanced level or (v) two other subjs., 3 of the 5 being passed on the same occasion and two of these 3 at advanced level or the cert. has been certified by an appropriate officer of a univ. of England or Wales as satisfying its requirements for matric. Nos. 13 and 14 are subject to certain conditions.

Appropriate passes in the following exams. are also recognized by the univ. as exempting from matric. :—

- (a) Michaelmas jr. freshman term exam. of Dublin Univ.
- (b) Matric. exam. of Nat. Univ. of Ireland.
- (c) Prelim. exam. of the Incorp. Law Soc. of N. Ireland
- (d) School leaving cert. of Dept. of Educn. of Republic of Ireland.

Consideration will be given to candidates submitting other qualifs. Graduates of an Irish, Scottish, English or Welsh Univ. shall not be required to pass the matric. exam.

Special Exemptions

Students of mature age (not less than 23) may be admitted without passing the ordinary matric. exam. Applicns. are dealt with by a spec. cttee. of the academic council, who may submit candidates to such tests of their fitness to profit by the courses of the univ. as they may consider necessary in each case. Applicns. must be submitted on or before June 1 in each yr.

In the fac. of appl. sci. & technol., sp. matric. may be given to candidates (not less than 19 yrs. old) who have been engaged in full-time industry for at least 3 yrs. and have been awarded an Ord. Natnl. Cert.

Special Regns. for Entrance to Facs. and Courses

ARTS. Candidates for the fac. of arts who intend to enter an honrs. sch. (except geog., maths.,

psychol.) must pass in Greek or Latin at matric. Before entering a graduating course in a lang., in maths., and in music, a candidate must have passed in the subj. at a recog. exam. Spec. introductory courses are available in Spanish and Greek preliminary to the graduating course.

AGRIC. Candidates for entry into the fac. of agric. must satisfy the fac. that they possess a sound knowledge of the practice of agric., and have been engaged for at least 1 yr. in farm practice.

APPL. SCI. AND TECHNOL. Candidates may qualify *either* according to the regns. for the fac. of sci. *or* for the fac. of appl. sci.

Exemption from First-Year Courses

In general, exemption from 1st-yr. courses is not granted except in the fac. of sci. In the fac. of appl. sci. exemption may be given for the whole of the 1st-yr. classes and exams. (but not separate subjs.) under stringent regns.

Last Date for Receipt of Applications

Applicns. may be received up to March 1 for admission in Oct. of the same yr. Applicns. from overseas students should be received as soon as possible after Jan. 1.

APPENDIX IV

STUDENTS FROM OTHER COUNTRIES IN UNITED KINGDOM UNIVERSITIES

1960-61

The total number of students from other countries * enrolled for full-time study or full-time research in United Kingdom universities at the beginning of the academic year 1960-61 was 12,410 (10,737 men; 1,673 women), which compares with 11,284 in 1959-60 and 11,047 in 1958-59.

Of these, 7890 came to the United Kingdom from other parts of the Commonwealth; particulars of these students are given in the table on pp. 1466-1467.

The subjects studied by the 12,410 students fall into the categories used by the University Grants Committee in its annual *Returns from Universities and University Colleges* as follows: Agriculture and Forestry, 264; Arts, 5181; Dentistry, 176; Medicine, 2251; Pure Science, 1681; Technology, 2755; Veterinary Science, 102.

The countries from which the largest numbers of students came were: India 1513, U.S.A. 1070, Nigeria 1010, Canada 502, Pakistan 439, Iraq 428, South Africa 409, Australia 386, Ghana 353, Kenya 351.

5025 of the 12,410 were postgraduate students (i.e. students working for higher degrees or certain higher diplomas or undertaking postgraduate work though not for a degree or diploma). The subjects studied by the 5025 fall into the U.G.C. categories as follows: Agriculture and Forestry, 94; Arts, 2145; Dentistry, 64; Medicine, 922; Pure Science, 947; Technology, 835; Veterinary Science, 18. The countries from which the largest numbers of postgraduates came were: India 776, U.S.A. 604, Canada 404, Australia 287, Pakistan 241, Egypt 205, South Africa 204.

2376 of the students were living in college or hall of residence and 10,034 in lodgings or with friends or relatives.

5204 students were known to hold an award of some kind (fellowship, scholarship, grant, etc.).

The 12,410 students were distributed in the universities and colleges as follows: Birmingham 456, Bristol 213, Cambridge 786, Durham 357 (Durham Colleges 49, King's College, Newcastle 308), Exeter 110, Hull 118, Leeds 532, Leicester 92, Liverpool 246, London 5257, Manchester 636,

North Staffordshire 18, Nottingham 118, Oxford 905, Reading 125, Sheffield 187, Southampton 88, Wales 362 (Aberystwyth 61, Bangor 69, Cardiff 129, Swansea 94, Welsh National School of Medicine 9), Aberdeen 173, Edinburgh 598, Glasgow 395, Royal College of Science and Technology, Glasgow 135, St. Andrews 243, Belfast 260.

The 5257 students at the University of London§ were distributed as follows: Courtauld Institute 42, Institute of Archaeology 23, Institute of Education 318, Institute of Historical Research 10, School of Slavonic and East European Studies 13, Warburg Institute 6, Bedford 71, Birkbeck 49, Imperial 571, King's 147, London School of Economics 892, Queen Elizabeth 19, Queen Mary 77, Royal Holloway 16, Royal Veterinary 31, School of Oriental and African Studies 258, School of Pharmacy 41, University 373, Westfield 20, Wye 19, Theological Schools 7, Charing Cross 11, Guy's 91, King's Coll. Hosp. Med. Sch. 19, London Hosp. Med. Coll. 28, Middlesex 37, Royal Dental 13, Royal Free 48, St. Bartholomew's 52, St. George's 7, St. Mary's 40, St. Thomas's 27, University Coll. Hosp. Med. Sch. 33, Westminster 14, British Postgraduate Med. Fed. 750, London School of Hygiene 70, Lister Institute 3, Institutions with Recognized Teachers 1011 (Battersea 142, Chelsea 68, Coll. of Estate Management 33, East Mall 2, Jews' 2, Maria Grey 1, Natl. Inst. for Medical Res. 4, Northampton 94, Northern 40, Rothamsted 14, R. Academy of Music 1, R. Coll. of Music 3, Sir J. Cass 37, Trinity Coll. of Music 1, West Ham 167, Woolwich 402).

The analysis below gives the total number of students from each of the various overseas countries, as well as some idea of their distribution at universities here.

ASIA—Total, 4578

Aden—38. Afghanistan—2. Bahrain—4. Brunei—1. Burma—74. London 46, Manchester 4, Edinburgh 4. Cambodia—1. Ceylon—248: London 148, Cambridge 23, Oxford 20. China—2. Cyprus—142: London 65, Manchester 11, [continued on p 1468]

* For *Yearbook* purposes a student is 'from another country' if his permanent home residence is overseas, i.e. one whose parents are only temporarily resident or employed abroad is not included, nor is one who was born abroad and may therefore have a foreign nationality, but who is now living permanently in the United Kingdom. For the purposes of this list the Channel Islands are not treated as 'abroad'.

§ External students are not included.

STUDENTS FROM OTHER PARTS OF THE COMMONWEALTH
IN UNITED KINGDOM

	Total	Male	Female	In College or Hall	In Lodgings, with Friends, etc	Known to hold an Award (Fellowship, Scholarship, Grant, etc.)	No Award Known	Undergraduate	Postgraduate
MEMBER COUNTRIES									
Canada	502	436	66	100	402	226	276	98	404
Australia *	387	338	49	105	282	142	245	99	288
New Zealand	152	134	18	41	111	78	74	40	106
India	1513	1358	155	109	1344	349	1164	737	776
Pakistan	439	402	37	49	390	153	286	198	241
Ceylon	248	211	37	50	198	83	165	101	147
Ghana	353	327	26	76	277	271	82	304	49
Malaya	288	252	36	44	244	93	195	238	50
Nigeria	1010	910	100	186	824	452	558	821	179
Cyprus	142	133	9	19	123	30	112	127	15
Sieffa Leone	124	108	16	20	104	90	34	98	26
[South Africa	400	358	51	100	300	123	286	205	204
Total	5567	4967	600	968	4599	2090	3477	3082	2485
Central African Federation	188	167	21	74	114	99	89	149	39
UNITED KINGDOM DEPENDENCIES									
Aden	38	36	2	8	30	30	8	33	5
Bahamas	16	12	4	6	10	9	7	14	2
Basutoland	8	8	—	2	6	7	1	7	1
Bermuda	13	8	5	7	6	10	3	9	4
British Cameroons	10	9	1	4	6	8	2	4	6
British Guiana	137	105	32	25	112	41	96	113	24
British Honduras	13	11	2	4	9	11	2	8	5
British Solomon Islands	1	1	—	1	—	1	—	—	1
Brunei	1	1	—	—	1	1	—	1	—
Fiji	7	7	—	—	7	5	2	4	3
Gambia	18	17	1	6	12	10	8	17	1
Gibraltar	22	18	4	8	14	13	9	19	3
Hong Kong	265	207	58	54	211	51	214	181	84
Kenya	351	303	48	102	249	153	198	309	42
Malta	52	43	9	13	39	32	20	38	14
Mauritius	173	157	16	40	133	48	125	156	17
North Borneo	10	9	1	3	7	8	2	9	1
Sarawak	12	10	2	4	8	5	7	11	1
Seychelles	2	2	—	—	2	—	2	2	—
Singapore	134	114	20	28	106	30	104	102	32
Swaziland	2	1	1	1	1	1	1	1	1
Tanganyika	126	124	2	33	93	62	64	105	21
Uganda	213	194	19	54	159	129	84	175	38
West Indies Federation	484	354	130	117	367	260	224	368	96
Zanzibar	27	26	1	1	26	13	14	21	6
Total	2135	1777	358	521	1614	938	1197	1727	408
GRAND TOTAL	7890	6911	979	1563	6327	3127	4763	4958	2932

* Including 1 student from New Guinea

ENROLLED FOR FULL-TIME STUDY OR FULL-TIME RESEARCH
UNIVERSITIES, 1960-61

Agriculture & Forestry	Arts	Dentistry	Medicine	Pure Science	Technology	Veterinary Science	Total	
4 (4)	229 (157)	2 (2)	58 (43)	109 (102)	99 (95)	1 (1)	502	MEMBER COUNTRIES
8 (6)	147 (85)	4 (4)	107 (93)	68 (56)	47 (39)	6 (5)	387	Canada
9 (5)	61 (34)	4 (4)	27 (21)	44 (38)	6 (3)	1 (1)	152	Australia *
16 (11)	431 (223)	14 (11)	180 (151)	198 (160)	671 (220)	3	1513	New Zealand
6 (4)	168 (79)	—	53 (34)	95 (75)	113 (49)	4	439	India
9 (7)	87 (58)	4 (2)	74 (42)	35 (23)	36 (12)	3 (3)	248	Pakistan
17 (2)	122 (26)	20	133 (6)	22 (7)	34 (7)	5 (1)	353	Ceylon
16 (1)	79 (18)	6 (4)	70 (7)	25 (6)	89 (14)	3	288	Ghana
31 (8)	507 (109)	11	224 (18)	92 (22)	128 (22)	17	1010	Malaya
1	47 (6)	—	23 (1)	15 (6)	54 (2)	—	142	Nigeria
5 (6)	149 (50)	19 (3)	96 (57)	75 (50)	58 (34)	6 (2)	400	Cyprus
128 (53)	2093 (868)	86 (30)	1072 (475)	789 (548)	1348 (498)	51 (13)	5567	Sierra Leone
7	83 (15)	1 (1)	40 (6)	20 (8)	26 (9)	11	188	South Africa]
—	14 (5)	1	13	3	7	—	38	Total
—	13 (2)	—	3	—	—	—	16	Cental African Federation
1	3 (1)	—	1	—	1	2	8	UNITED KINGDOM
—	10 (2)	—	—	2 (2)	—	—	13	DEPENDENCIES
1 (1)	8 (5)	—	1	—	—	—	10	Aden
4	54 (16)	2	38 (4)	16	23 (4)	—	137	Bahamas
1	11 (5)	—	—	—	1	—	13	Basutoland
—	21 (1)	—	—	—	—	—	1	Bermuda
—	1	—	—	—	—	—	1	British Cameroons
—	4 (2)	—	1 (1)	—	2	—	7	British Guiana
—	10 (1)	—	—	4	1	—	18	British Honduras
—	13 (3)	—	—	3	—	—	22	British Solomon Islands
1	71 (24)	4 (1)	65 (21)	51 (13)	73 (25)	—	265	Brunei
15 (3)	142 (18)	4 (1)	93 (5)	36 (6)	51 (9)	10	351	Fiji
2 (1)	33 (10)	1 (1)	3 (1)	7	6 (1)	—	52	Gambia
6	51 (9)	+ (1)	47 (2)	48 (3)	16 (2)	1	173	Gibraltar
—	2	—	1	2	5 (1)	—	10	Hong Kong
—	4	—	4 (1)	—	4	—	12	Kenya
—	1	—	—	—	—	—	2	Malta
—	26 (8)	3 (3)	39 (10)	18 (4)	46 (7)	2	134	Mauritius
—	1 (1)	—	1	—	—	—	2	North Borneo
2	58 (14)	1	21 (3)	5 (1)	38 (3)	1	126	Sarawak
19	62 (20)	6 (1)	53 (10)	29 (4)	39 (3)	5	213	Seychelles
13 (2)	258 (58)	6 (1)	90 (9)	45 (11)	76 (15)	4	484	Singapore
—	11 (5)	—	6 (1)	2	7	1	27	Tanganyika
65 (7)	854 (210)	33 (9)	489 (68)	271 (44)	397 (70)	26	2135	Uganda
200 (60)	3030 (1093)	120 (40)	1601 (549)	1080 (600)	1771 (577)	88 (13)	7890	West Indies Federation
—	—	—	—	—	—	—	—	Zanzibar
—	—	—	—	—	—	—	—	Total
—	—	—	—	—	—	—	—	GRAND TOTAL

Note.—Countries are arranged under the general headings which were appropriate at the time of the compilation of the statistics. The subject headings conform to the categories used by the University Grants Committee in its annual Returns (e.g. Arts includes Economics & Social Studies, Education, Law and Theology). The numbers in brackets are those of the postgraduate students (see p. 1465 for definition) included in the previous figure, e.g. of the 229 students from Canada who were studying Arts, 157 were doing so at the postgraduate level.

Sheffield 9, Birmingham 8. *Formosa*—7. *Goa*—3. *Hong Kong*—265: London 129, Manchester 26, Cambridge 17, Birmingham 14, Edinburgh 14. *India*—1513: London 753, Manchester 104, Leeds 93, R.C.S.T. Glasgow 93, Glasgow 69, Cambridge 65, Oxford 57, Edinburgh 47. *Indonesia*—35. *Iraq*—428: London 180, Manchester 51, Wales 49, Birmingham 39, Liverpool 29. *Israel*—116: London 67, Leeds 20. *Japan*—56: London 22, Oxford 8. *Jordan*—49: London 27. *Korea*—22. *Kuwait*—18. *Laos*—2. *Lebanon*—26. *Malaya* (not including Singapore)—288: London 139, Belfast 40, Edinburgh 14. *Nepal*—17. *North Borneo*—10. *Pakistan*—439: London 209, Manchester 33, Cambridge 30, Leeds 24, Oxford 24, Birmingham 23, Edinburgh 17. *Persia*—261: London 116, Manchester 36, Birmingham 26, Leeds 20, Durham 10. *Philippines*—23. *Qatar*—1. *Sarawak*—12. *Saudi Arabia*—17. *Singapore*—134: London 78, Belfast 11, Cambridge 7. *Syria*—37. *Thailand*—139: London 59, Cambridge 12, Birmingham 9. *Trucial States (Dubai)*—1. *Turkey*—130: London 37, Manchester 25, Leeds 24, Birmingham 14. *Vietnam*—16. *Yemen*—1.

AFRICA—Total, 3471

Algeria—1. *Basutoland*—8. *British Cameroons*—10. *Canary Islands*—2. *Congo* (formerly Belgian)—2. *Egypt*—267: London 135, Manchester 27, Leeds 26, Birmingham 10. *Ethiopia*—11. *Gambia*—18. *Ghana*—353: London 118, Edinburgh 31, Durham 23, Belfast 23, Glasgow 20, Manchester 18. *Kenya*—351: London 91, Edinburgh 35, Wales 24, Cambridge 20, Belfast 19, Oxford 18. *Liberia*—4. *Libya*—18. *Mauritius*—173: London 50, Edinburgh 16, Belfast 12, Glasgow 11. *Morocco*—7. *Mozambique*—5. *Nigeria*—1010: London 417, Glasgow 69, Durham 57, Manchester 54, Edinburgh 51, Belfast 43, Hull 39. *Rhodesia and Nyasaland*—188 (Northern Rhodesia 66, Nyasaland 22, Southern Rhodesia 100): London 61, Oxford 26, Cambridge 21, Edinburgh 21. *Seychelles*—2. *Sierra Leone*—124: London 25, Durham 18, Birmingham 13. *Somali Republic*—23. *South Africa*—409: London 185, Oxford 68, Cambridge 61, Leeds 18. *Sudan*—108: London 49, Edinburgh 10. *Swaziland*—2. *Tanganyika*—126: London 47, Glasgow 11. *Togo*—1. *Tunisia*—8. *Uganda*—213: London 75, Wales 24, Edinburgh 15, St. Andrews 14. *Zanzibar*—27.

AMERICA—Total, 2425

Antigua—4. *Argentina*—31. *Bahamas*—16. *Barbados*—42. *Bermuda*—13. *Bolivia*—4. *Brazil*—16. *British Guiana*—137: London 57, Edinburgh 18, Belfast 11. *British Honduras*—13. *Canada*—502: London 284, Cambridge 65,

Oxford 61, Birmingham 24, Edinburgh 13. *Chile*—19. *Colombia*—28. *Cuba*—3. *Curacao*—1. *Dominica*—5. *Ecuador*—4. *Grenada*—15. *Guatemala*—4. *Haiti*—1. *Honduras*—1. *Jamaica*—154: London 50, Edinburgh 28, Wales 12. *Mexico*—17. *Panama*—5. *Paraguay*—2. *Peru*—7. *Puerto Rico*—1. *St. Christopher-Nevis*—8. *St. Lucia*—9. *St. Vincent*—6. *Salvador*—1. *Trinidad and Tobago*—241: London 59, Edinburgh 23, Wales 20, Birmingham 16, Belfast 16, Aberdeen 15. *U.S.A.*—1070: London 389, Oxford 285, Cambridge 124, Edinburgh 66, St. Andrews 35. *Uruguay*—4. *Venezuela*—41.

EUROPE—Total, 1383

Austria—10. *Belgium*—21. *Bulgaria*—3. *Czechoslovakia*—4. *Denmark*—16. *Finland*—14. *France*—53: London 17, Oxford 11. *Germany*—172: London 46, Leeds 28, Durham 20, Birmingham 13. *Gibraltar*—22. *Greece*—180: London 89, Manchester 19, Leeds 15, Durham 13. *Hungary*—119. *Iceland*—27. *Ireland* (Republic of)—90: London 42, Cambridge 17, Liverpool 10. *Italy*—56: London 25, Cambridge 8. *Luxembourg*—6. *Malta*—52: London 17. *Netherlands*—63: London 24. *Norway*—221: Glasgow 40, Durham 28, Aberdeen 23, Edinburgh 23, London 22, Manchester 17. *Poland*—34. *Portugal*—42. *Spain*—43. *Sweden*—25. *Switzerland*—55: London 28. *U.S.S.R.*—13. *Yugoslavia*—42.

AUSTRALASIA—Total, 547

Australia—386: London 188, Cambridge 89, Oxford 71. *British Solomon Islands*—1. *Fiji*—7. *New Guinea*—1. *New Zealand*—152: London 59, Oxford 35, Cambridge 32.

Stateless—6.

There were also 1851 students from other countries (1392 men; 459 women) enrolled for part-time study or part-time research in United Kingdom universities at the beginning of the academic year 1960-61. Of these, 933 came to the United Kingdom from other parts of the Commonwealth. 766 of the 1851 were post-graduate students. There were part-time overseas students enrolled at all universities except Cambridge, Leicester, North Staffordshire, Oxford, R.C.S.T. Glasgow and Belfast, those with the largest numbers being: London 1024, Edinburgh 413, Liverpool 81, Bristol 55, Glasgow 46, Manchester 45, Wales 43, Sheffield 31, Aberdeen 25, Exeter 24, Durham 18. 636 of the 1851 came from Asia, 449 from Europe, 367 from America, 319 from Africa and 80 from Australasia; the countries from which the largest numbers came were: India*315, U.S.A. 263, Germany 212.

Particulars of overseas student numbers for 1961-62, which were not available at the time of going to press, may be obtained on request from the Secretary, A.U.B.C., 36 Gordon Sq., London, W.C.1.

* Includes 115 Hungarian refugees (103 men; 12 women); the universities at which the largest groups of the 115 were enrolled were: London (48), Liverpool (9), Birmingham (7).

APPENDIX V

BRITISH ACADEMIC INSTITUTIONS OUTSIDE THE COMMONWEALTH

BRITISH INSTITUTE IN PARIS

Université de Paris:
Institut Britannique

Dir.—F. H. Searle, MA *Durh.*, MLitt *Camb.*, FRSL. *Postal address*: British Institute in Paris, 6 rue de la Sorbonne, Paris 5^e (tel.: Odéon 23-70). *Sec.*—Rosemary White, MA *Oxon.*, 29 Tavistock Square, London, W.C.1 (tel.: Euston 3263).

TEACHING STAFF. ENGL.: *Dir.* of Dept.—Mme. Phyllis Bassarab, BA *Oxon.*; *Sr. Lectrs.*—H. O. Quick, BA *Lond.*, A. B. H. Allan, MA *Glas.*, M. Mortimer, BA *Dub.*; *Lectrs.*—Mme. Margaret W. Truffert, BA *Sheff.* (phonetics), E. R. Pratt, BA *Oxon.*, J. B. G. Cooper, BA *Br.Col.*, B. F. Farrington, BA *Dub.*, W. B. Barrie, MA *Edin.*, Mme. Olga Champion, BSc *Lond.*, Mme. Shirley Marro, BA *Dub.*, Mme. Doris A. Blanchard, BA *Lond.*, J. Knowles, BA *R'dg.*, Mme. Paulette Lévy, Mlle. Marie-Claude Blanchet. *FRENCH*: *Dir.* of Dept.—A. Truffert; G. Blin and Ruetie (profs. at the Sorbonne); *Asst. Hd.* of Dept.—Mme. Odette Mettas; *Lectrs.*—J. Desseignet (vacation courses), Mme. Marguerite Peyrollaz, Marguerite Prinnet, H. Appia, V. Bernard, Mme. M. T. Forté-Gex, Mme. A. Henrion, Mme. L. Moussu, Mme. Pfender, M. G. Quenelle, G. Waringhien.

The inst. was founded in 1927 by joint Anglo-French initiative to provide practical courses in French and English complementary to the instrcn. given in these subjects in the fac. of arts at the Sorbonne.

The dept. of Engl. organizes oral and correspondence courses for French univ. students of Engl. lang. and lit. (1st yr. *licence* and *agrégation* levels) and for the Cambridge exams. in Engl. About 2000 students a yr. attend the English courses.

The dept. of French organizes courses from Oct. to June at school-leaving, undergrad. and res. levels, and Easter vacation courses for undergrad. and sixth-formers. For British students spending a yr. in French schs. as assistants, a short introductory course is organized in the autumn, and a correspondence course during the academic yr. Enrolment figures for 1960-61 were: assistants, 261; Easter vacation course, 50; sixth-formers, 360; 100 teachers who at-

tended a refresher course in July sponsored by the ministry of education.

Membership of the Meyer-Sassoon library (15,000 vols.) and the students' club is open to all students of the inst., and applicants are welcomed from other students from British univs. Advice on lodgings is available for students attending the inst., and is offered when possible to other British students.

BRITISH SCHOOL AT ROME

Dir.—J. B. Ward Perkins, CBE. *Postal address*: Accademia Britannica, Valle Giulia, Rome 51. *Hon. general sec.*—W. D. Sturch, 1 Lowther Gdns., London, S.W.7 (tel.: Kensington 3665).

The sch. was establd. in 1901 as a sch. of archæol. devoted to the study of the antiquities and hist. of Rome and Italy. In 1911 it was reconstituted to offer facilities also for practising students of archit., sculpture and painting. A royal charter of incorporation was granted in the following yr.

The sch. day includes 5 facs.: archæol., hist. & letters; archit.; painting; sculpture; engraving. The income of the sch. is derived partly from public funds, partly from the commissioners for the exhibition of 1851, and partly from subscriptions and donations from univs., colls., socs. and private individuals.

Rome schols. are offered in classical studies, in mediæval studies, and in each of the 4 facs. of the fine arts. Particulars of these and other schols. attached to the sch. may be obtained from the hon. general sec. (*see above*).

The sch. is in no sense a teaching instrn., and admission is normally restricted to winners of one of the above schols. and to grad. students of the univs. and art schs. of the Commonwealth who are qualified to promote the objects of the sch. Accommod. is available for the staff and about 25 students. There is a library of some 35,000 vols. The *Papers of the British Sch. at Rome* provide an annual account of the more important archæol. and hist. researches of the sch.

**BRITISH SCHOOL OF ARCHÆOLOGY
AT ATHENS**

Dir.—M. S. F. Hood, MA, FSA. *Postal address*: British School of Archæology, Odos Souedias 52, Athens. *Sec.*—Edith Clay, FSA, 31-34 Gordon Square, London, W.C.1 (tel: Euston 8029).

The sch. was founded in 1866. Its first aim is to promote the study of Greek archæol. in all its depts., incl. the study of the hist., religiōn, art and life of ancient Greece as revealed by the monuments and the exploration of ancient and mediæval sites. Excavations in Greece have always been one of the principal activities of the sch., but it is also in the widest sense a sch. of classical studies, taking every period of Greek lang. and lit., from

the earliest age to the present day, as its province. With these ends in view, the sch. co-operates with univs., museums and other bodies in the United Kingdom and in other parts of the Commonwealth.

The sch. is largely residential. It admits holders of grad. studentships and travelling fellowships awarded by Commonwealth univs., and other persons who satisfy the managing cttee. that they qualify as students, including those of foreign univs. The academic session is from Nov. 1 to June 30. Students may begin work at any date but are normally required to reside for not less than 3 months.

The library contains some 20,000 archæol. and other books, together with maps, plans and photographs.

APPENDIX VI

SHORT BIBLIOGRAPHY

The two lists which follow do not claim to be exhaustive and may be supplemented by reference to the 'Publications' paragraph in each university entry above and to the 'Further Information' section of each national introduction.

PART ONE

This section lists books and reports of immediate interest which have appeared since the 1961 Yearbook went to press.

- Academic Degrees.* Earned and Honorary Degrees conferred by Institutions of Higher Education in the United States. W. C. Eells and H. A. Haswell (U.S. Department of Health, Education and Welfare, Washington, 1961).
- Bibliography of Doctorate Theses in Arts & Science accepted by Indian Universities for 1954-58.* (Inter-University Board of India, 1961).
- Canadian Correspondence Courses for University Credit, 1960-61.* (Department of University Extension and Adult Education, University of Manitoba, for Canadian Association of Directors of Extension and Summer Schools, 1961).
- Canadian Universities Foundation:*
Financing Higher Education in Canada, No. 2: Sources of University Support. E. F. Sheffield. (C.U.F., Ottawa, 1961).
Financing Higher Education in Canada, No. 3: Provincial Programmes of Aid to University Students, 1957-58 to 1960-61. J. Rosemary Vandercamp. (C.U.F., 1961).
- Canadian Universities Today.* Edited by G. Stanley and G. Sylvestre. (University of Toronto Press, 1961).
- The Chosen Few: an Examination of Some Aspects of University Selection in Britain.* W. D. Furneaux. (Oxford University Press, 1961).
- Commonwealth Scholarship and Fellowship Plan: First Annual Report, 1960-61.* Prepared by the Association of Universities of the British Commonwealth for the Commonwealth Education Liaison Committee (C.E.L.C., London, 1961).
- Conference of African States on the Development of Education in Africa, Addis Ababa, 15-25 May 1961: Final Report.* (UNECA/UNESCO, 1961).
- Conference of the Universities of the United Kingdom, 1961: Report of Proceedings.* (A.U.B.C. for Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom, London, 1962).
- The Democratic Intellect: Scotland and her Universities in the Nineteenth Century.* G. E. Davie. (Edinburgh University Press, 1961).
- Directory of Graduate Research, 1959.* Faculties, Publications and Doctoral Theses in Departments or Divisions of Chemistry, Biochemistry and Chemical Engineering at United States Universities (American Chemical Society, Washington, 1960).
- Educational Co-operation within the Commonwealth.* (Central Office of Information, London, 1961).
- English Teaching Abroad and the British Universities.* Extracts from the proceedings of the conference on University Training and Research in the Teaching of English as a Second/Foreign Language, held at Nutford House, London, under the auspices of the British Council. Edited by H. G. Wayment. (Methuen, London, 1961).
- Fellowships for Africans.* Supplement to 13th edition of *Study Abroad.* (Unesco, 1961).
- First Annual Report of the Commonwealth Scholarship Commission in the United Kingdom for the year ending 30th September 1960.* Cmnd. 1541. (H.M.S.O. for Commonwealth Relations Office and Colonial Office, London, 1961).
- Second Annual Report of the Commonwealth Scholarship Commission in the United Kingdom for the year ending 30th September 1961.* (H.M.S.O. for Commonwealth Relations Office and Colonial Office, London, 1962).
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- Higher Education in Agriculture.* (European Productivity Agency, Organisation for European Economic Co-operation, Paris, 1960).
- Indian University Students in Britain.* Broad-sheet No. 456. (Political and Economic Planning, London, 1961).
- The Long-Term Demand for Scientific Manpower.* Cmnd. 1490. (H.M.S.O. for Advisory Council on Scientific Policy, Committee on Scientific Manpower, Statistics Committee, 1961).
- Matriculation—and After.* A survey of pupils in Australia who, in the 1957 examinations, qualified to matriculate to Australian universities. (Commonwealth Office of Education

- and Australian Council for Educational Research, 1961).
- Modern Languages in the Universities: A Guide to Courses of Study in Five European Languages at Universities in the United Kingdom.* (Modern Language Association, London, 1961).
- New Universities Overseas.* Sir Alexander Carr-Saunders. (Allen & Unwin, London, 1961).
- Opportunities at Canadian Universities for Students from Great Britain.* (Canadian British Education Committee, London, 1960).
- The Overseas Student in Britain.* A. S. Livingstone. (Manchester University Press, 1960).
- Patterns of Universities in Non-European Societies* Sir Eric Ashby. (School of Oriental and African Studies, University of London, 1961).
- Portrait of a College.* A history of the College of Saint John the Evangelist, Cambridge. E. Miller. (Cambridge University Press, 1961).
- Postgraduate Scholarships and Bursaries available to South African Students in the Union and Overseas.* Information Series, No. 1. (National Bureau of Educational and Social Research, Department of Education, Arts and Science, Pretoria, 1960).
- Psychological and Educational Bases of Academic Performance.* Professor C. Sanders. (Australian Council for Educational Research, Melbourne, 1962).
- Répertoire des Laboratoires Scientifiques.* (Office National des Universités et Écoles Françaises, Paris, 1961).
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- Teaching of English as a Second Language* (Government Printer, Uganda, on behalf of the Commonwealth Education Liaison Committee, London, 1961).
- Report of the Proceedings of the Conference of Australian Universities, 1961.* (Australian Vice-Chancellors Committee, Melbourne, 1961).
- Report of the Proceedings of the Conference of the Universities of South Africa, 11th and 12th April, 1960.* (South African Committee of University Principals, Cape Town, 1961).
- Report of the Third General Conference of the International Association of Universities, Mexico, 6-12 September 1960.* (International Universities Bureau, Paris, 1961).
- Report on Education and Training of Professional Engineers.* 3 volumes. (Conference of Engineering Societies of Western Europe and the United States of America, 1961).
- Research in the Humanities and the Social Sciences: Report of a Survey by the British Academy, 1958-60.* (Oxford University Press for British Academy, 1961).
- Staff Recruitment in Australian Universities.* W. D. Borrie. (Australian National University, Canberra, 1961).
- Survey of Higher Education, 1954-59.* (Dominion Bureau of Statistics, Ottawa, 1962).
- Universities in Transition.* H. C. Dent. (Cohen & West, London, 1961).
- The Universities and Adult Education.* (Universities Council for Adult Education, Bristol, 1961).
- University Grants Committee: Report of the Subcommittee on Oriental, Slavonic, East European and African Studies.* Chairman: Sir William Hayter. (H.M.S.O., London, 1961).
- University of Hong Kong: The First 50 Years, 1911-61.* (Hong Kong University Press, 1962).

PART TWO

This list covers works of more than immediate interest, but for the most part does not include those already listed in Part I. It is divided into three sections: 'General and Reference Books', 'Reports' and 'Periodicals'. Books about single universities are not included.

GENERAL AND REFERENCE BOOKS

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- Commonwealth Universities Yearbook.* Edited by J. F. Foster. Published annually. Thirty-ninth issue, 1962. (Association of Universities of the British Commonwealth, London).
- The Crisis in the University.* Sir Walter Moberly. (S.C.M. Press, London, 1949).
- The Degrees and Hoods of the World's Universities and Colleges.* F. W. Haycraft. 1948 edition revised by E. W. S. Stringer. (Cheshunt Press).
- Formal Programmes of International Co-operation between University Institutions.* Report of an International Committee of Experts. Educational Studies and Documents, No. 37. (Unesco, Paris, 1960).

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- International Association of Universities (see also p. 1472):
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- World Directory of Medical Schools*. 2nd edition, 1957. (World Health Organization, Geneva).
- The World of Learning*. Annual. (Europa Publications, London).
- Australia** (see also p. 17)
- Estimates of Australian University Enrolments, 1960-74*. R. B. Davis. (University of New South Wales, Sydney, 1960).
- Higher Education in Australia: A Directory of Courses*. (Commonwealth Office of Education, Sydney, 1959).
- The Humanities in Australia: A Survey with Special Reference to the Universities*. Edited by A. Grenfell Price. (Angus and Robertson, Sydney, for the Australian Humanities Research Council, 1959).
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India (see also p. 425)

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Switzerland

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United Kingdom (see also p. 800)

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Careers for Graduates. (Athlone Press for University of London Appointments Board, 1955).

Civic Universities. Aspects of a British Tradition. W. H. G. Armytage. (Benn, London, 1955).

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Commonwealth Education: Britain's Contribution. D. Crow. (Central Office of Information, London, 1961).

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A Conspectus of Management Courses. (Sir Isaac Pitman & Sons, Ltd., London, 1960).

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First Year at the University. Bruce Truscot. (Faber, 1946).

Four British University Summer Schools. Annual brochure. Restricted to international summer schools arranged under an inter-university programme. Obtainable from univs. of Birmingham, Edinburgh, London and Oxford.
From School to University. R. R. Dale. (Routledge and Kegan Paul, London, 1954).

Getting into a University: a Brief Guide for the Sixth-Former. Reprinted from the Appendix to the Second Report of an ad hoc Committee on Procedure for Admission of Students. (A.U.B.C. for Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom, 1960).

Government Assistance to Universities in Great Britain. Memoranda submitted to the Commission on Financing Higher Education. Dodds, Hacker and Rogers. (Columbia University Press, New York, 1952).

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Higher Education in the United Kingdom: A Handbook for Students from Overseas. (Longmans, Green, for British Council and Association of Universities of the British Commonwealth, 1962).

Index to Theses accepted for Higher Degrees in the Universities of Great Britain and Ireland. Published annually. Edited by Magda Whitrow. (Aslib, London).

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- Social and Economic Research: Report of Committee.* Chairman: Sir John Clapham. Cmd. 6868. (H.M.S.O., 1946).
- Supply of Teachers of Mathematics and Science in Scotland: Report of Committee.* Chairman: Sir Edward Appleton. Cmd. 9419. (H.M.S.O., 1955).
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- Bulletin of International Association of Universities.* Published four times a year. (International Universities Bureau, Paris).
- The C.A.U.T. Bulletin.* Edited by Prof. S. R. Mealing. Published four times a year by the Canadian Association of University Teachers. (C.A.U.T., Ottawa).
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- The Educational Record.* Edited by R. F. Howes. Published four times a year. (American Council on Education).
- Universities Quarterly.* Edited by Boris Ford. (Turnstile Press, London).
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APPENDIX VII

COMMONWEALTH SCHOLARSHIP AND FELLOWSHIP PLAN

The Commonwealth Scholarship and Fellowship Plan was drawn up at Oxford in July 1959 at the Commonwealth Education Conference, a meeting of official delegates from the various countries convened by the United Kingdom government in accordance with a decision of Commonwealth Ministers at the Trade and Economic Conference held at Montreal in September 1958. The Montreal conference, in stressing the importance of education and training to the development of the different countries, had expressed the hope that they would be able to share with each other the advantages of education of all kinds and at all levels and had envisaged a scheme of 1000 scholarships, of which the United Kingdom undertook to provide one-half and Canada one-quarter. All the Commonwealth countries and most of the dependent territories were represented at the Oxford conference which, in addition to recommending arrangements for Commonwealth co-operation in such matters as technical training and the supply and training of teachers, worked out details of the Commonwealth Scholarship and Fellowship Plan to which effect has been given by decisions of the various governments. The Plan aims (as stated in the report of the conference) at enriching each country of the Commonwealth by enabling an increasing number of its ablest citizens to share the wide range of educational resources available throughout the Commonwealth and thus at promoting equality of educational opportunity at the highest level.

In general there are two kinds of awards—*Commonwealth Scholarships* which are normally intended for young graduates of high intellectual promise who may be expected to make a significant contribution to life in their own countries on their return from postgraduate study overseas, but which may be awarded for undergraduate study in cases where facilities for such study are not available in their own country; and *Commonwealth Visiting Fellowships* which are intended for a few senior scholars of established reputation and achievement. The main emphasis is on awards in the academic (including technological) fields but the possibility is not excluded of some awards being made to people outside these fields who play important rôles in the life of their country.

The general basis of the Plan is that each Commonwealth country which is able to do so should institute Commonwealth Scholarships and Fellowships which may be held by men and women

from other Commonwealth countries at its universities, colleges and other institutions of higher education. The following countries have instituted scholarships: the United Kingdom, Canada, Australia, New Zealand, India, Pakistan, Ceylon, Malaya, Nigeria, Cyprus, Sierra Leone, the Federation of Rhodesia and Nyasaland, East Africa (awards being established jointly by the governments of Kenya, Tanganyika and Uganda), Hong Kong, Jamaica and Malta. Fellowships or awards for senior scholars and education administrators have so far been instituted by the United Kingdom, Australia, New Zealand, India and the Federation of Rhodesia and Nyasaland. Each awarding country (*i.e.* the country in which the award is tenable) is responsible for the administration of its own awards. Local assistance is provided by the nominating country (*i.e.* the country from which nominations are invited) in publicizing awards and inviting applications from which to select nominations.

The value of the awards is determined by each awarding country and is set out in the prospectus of its awards. In general the emoluments include fares to and from the awarding country, payment of tuition fees, allowances for books, special clothing and local travel and a personal maintenance allowance. In some countries a marriage allowance is paid in addition. The normal period of tenure for a Commonwealth Scholarship is two academic years but in certain circumstances this period may be longer or shorter. Scholars are expected to return to their own countries on the completion of the tenure of the award.

The Commonwealth Scholarships offered by Canada—to take as an example the form given to its competition by one awarding country—are tenable at any Canadian university and are open to men and women under 35; only Commonwealth citizens and British protected persons are eligible to apply. These awards are offered in the other countries and territories on the basis of a series of 'notional quotas'. Other awarding countries have announced similar but not identical conditions; all of them publish their own notices for circulation in the countries from which applications by candidates are invited. These announcements (with closing dates) will normally be displayed in universities and colleges and (where appropriate) will appear in the local press.

By October 1961 competitions had been held for the awards instituted by all the awarding

countries named in the Table below and students had taken up awards in thirteen of them. Full details of the operation of the scheme in the various countries in the first year up to March 31, 1961, are given in the *First Annual Report (1960-1961) on the Commonwealth Scholarship and Fellowship Plan* prepared by the Association of Universities of the British Commonwealth and published by the Commonwealth Education Liaison Committee. The report summarizes the activities of each country under the scheme and in a series of tabular appendices analyses the various competitions that have been held. In the period covered by the report 408 Commonwealth Scholarships were offered to candidates by the various awarding countries; 335 were accepted and by March 31, 1961, over 250 successful applicants had taken up awards and were studying in overseas countries under the auspices of the Plan. The report indicates that the Plan is going a long way to meeting the need for higher education overseas in the Commonwealth. 22,000 applications were made for the various awards for which competitions were held within this period. Many of the countries listed above have already held more than one selection operation and in fact, at the time of going to press, Canada and the United Kingdom are in the midst of their third selection operation. Already two generations of Commonwealth Scholars have taken up awards

in these countries. The progress of the scheme so far was reviewed at the second Commonwealth Education Conference held in New Delhi in January 1962. The conference, having surveyed the achievements of the Plan to date, confirmed with minor modifications the basis on which the Plan is being operated.

Candidates for Commonwealth Scholarships offered by whatever awarding country are required to apply through the appropriate scholarship agency in their *country of normal residence*, i.e. a student who is already temporarily abroad in another country of the Commonwealth may not apply in that country for an award wherever tenable, but must lodge his application with the agency in the country where he ordinarily lives. It will then be considered in the local competition which is held to select candidates for nomination to the particular awarding country. On the other hand, a citizen of one Commonwealth country who has established his permanent home in one of the other countries, must, irrespective of his legal citizenship, submit his application in his adopted country and be judged in the competition with the other applicants there.

Each country in the Commonwealth has designated a local agency for the Commonwealth Scholarship and Fellowship Plan to handle (a) the preliminary selection for nomination to awarding countries and (b) the final selection

[continued on opposite page]

COMMONWEALTH SCHOLARSHIPS

taken up in the period from the inception of the Plan in July 1959 to September 30, 1961

		AWARDING COUNTRIES														Total
		United Kingdom	Canada	Australia	New Zealand	India	Pakistan	Ceylon	Malaya	Nigeria	Fed. of Rhodesia and Nyassaland	East Africa	Hong Kong	Malta	South Africa	
NOMINATING COUNTRIES	United Kingdom	—	23	3	2		1		1	1	1					32
	Canada	42	—	4	2		1									51
	Australia	35	11			1			1				2			50
	New Zealand	19	10	3	—											32
	India	73	31	2	1	—										107
	Pakistan	39	19	2	1	1	—									62
	Ceylon	11	9	1		2		—								23
	Ghana	6	10													16
	Malaya	12	6	2					—							20
	Nigeria	30	6	2						—						38
	Cyprus	3														3
	Sierra Leone	3	4													7
	Fed. of Rhodesia and Nyassaland	9	6								—					16
	Dependent Territories	91	60	13	3	16						1		1		185
South Africa	20	10	4	1					1	1					37	
Total		393	205	36	10	22	2		2	2	2	1	2	1	1	679

from nominations submitted by nominating countries for its own awards. These agencies also distribute to candidates prospectuses and application forms for the various awards and will, generally speaking, be the best local centres for information about details of the Plan. At the beginning of February 1962 the list of agencies in the principal countries and territories with their postal addresses was as follows (in dependent territories not mentioned enquiry should be made at the principal government education office):

Aden Department of Education, Crater, Aden (Minister of Education and Immigration)
Australia Commonwealth Office of Education, P.O. Box 189, North Sydney, N.S.W., Australia (Director).
Bahamas Civil Service Commission, Nassau, Bahamas (Chairman).
Barbados Ministry of Education, Government Headquarters, Bridgetown, Bahamas (Permanent Secretary).
British Guiana Director of Education, P.O. Box 41, Georgetown, British Guiana.
British Honduras Ministry of Education, Health and Housing, Belize, British Honduras (Principal Secretary).
Canada Canadian Universities Foundation, 77 Metcalfe Street, Ottawa 4, Canada (Executive Director).
Ceylon Ministry of Education, Malay Street, Colombo 2, Ceylon (Permanent Secretary).
Cyprus Ministry of Foreign Affairs, Nicosia, Cyprus.
Ghana Scholarships Secretariat, P.O. Box M 73, Ministry Branch Post Office, Accra, Ghana (Registrar of Scholarships).
Gibraltar Commonwealth Education Scholarships Committee, Department of Education, 122 Irish Town, Gibraltar (Secretary).
Hong Kong Department of Education, Battery Path, Hong Kong (Director of Education).
India Commonwealth Unit, Scholarships Division C.S. 3 (Com), Ministry of Scientific Research and Cultural Affairs, Curzon Road Barracks, New Delhi, India (Deputy Educational Adviser).
Jamaica Ministry of Education, P.O. Box 498, Kingston, Jamaica (Permanent Secretary).
Kenya Central Bursaries Selection Board, Ministry of Education, P.O. Box 30040, Nairobi, Kenya (Director).
Federation of Malaya Malaysian Liaison Committee, Ministry of Education, Federal House, Kuala Lumpur, Malaya.
Malta Director of Education, 141 St. Christopher's Street, Valletta, Malta.
Mauritius Ministry of Education and Cultural Affairs, Port Louis, Mauritius (Principal Assistant Secretary).
New Zealand Commonwealth Scholarships and Fellowships Committee, University Grants Committee, University House, Bowen Street, Wellington, C.1, New Zealand (Chairman).
Nigeria Federal Scholarship Advisory Board, Federal Ministry of Education, Lagos (Chief Federal Adviser on Education).
North Borneo The Chief Secretary, Secretariat, Jesselton, North Borneo.
Pakistan Ministry of Education, Government of Pakistan, Karachi, Pakistan (Educational Adviser).
Federation of Rhodesia & Nyasaland Federal Common-

wealth Scholarships Board, Ministry of Education, P.O. Box 8024, Causeway, Salisbury, Rhodesia (Secretary).
Sierra Leone Scholarships Advisory Committee, Ministry of Education, Rawdon Street, Freetown, Sierra Leone (Student Secretary).
Singapore Ministry of Education, Kay Siang Road, Singapore 10 (Permanent Secretary).
Tanganyika Government Bursaries Advisory Committee, Ministry of Education, P.O. Box 9121, Dar es Salaam, Tanganyika (Permanent Secretary).
Trinidad Ministry of Finance (Training Section), Whitehall, Port of Spain, Trinidad (Permanent Secretary).
Uganda Central Scholarships Selection Committee, P.O. Box 3918, Kampala, Uganda (Secretary).
United Kingdom Commonwealth Scholarship Commission in the United Kingdom, Marlborough House, Pall Mall, London, S.W. 1 (Secretary).
Zanzibar Scholarship Selection Committee, c/o Department of Education, P.O. Box 162, Zanzibar (Secretary).

Information about the development of the schemes of educational co-operation within the Commonwealth as recommended at the Oxford or New Delhi conferences, other than the Commonwealth Scholarship and Fellowship Plan, may be obtained from the governments concerned or from the Commonwealth Education Liaison Unit, Marlborough House, Pall Mall, London, S.W. 1. The following publications should be consulted for detailed information concerning the Plan:

Report of the Commonwealth Education Conference at Oxford. Cmd. 841 (H.M.S.O., London, 1959).

First Annual Report (1960-61) on the Commonwealth Scholarship and Fellowship Plan. Prepared by the Association of Universities of the British Commonwealth. (Commonwealth Education Liaison Committee, London, 1961).

First Annual Report of the Commonwealth Scholarship Commission in the United Kingdom for the year ending 30th September 1960. Cmd. 1541. (H.M.S.O., London, 1961).

Second Annual Report of the Commonwealth Scholarship Commission in the United Kingdom for the year ending 30th September 1961. (H.M.S.O., London, 1962).

Report of Second Commonwealth Education Conference, New Delhi, 11-25 January 1962. (Ministry of Education, Government of India, 1962).

APPENDIX VIII

THE ASSOCIATION OF UNIVERSITIES OF THE BRITISH COMMONWEALTH

The Association of Universities of the British Commonwealth is a voluntary association of institutions of university and university college standing in the various countries of the Commonwealth. It is incorporated as a limited company under the Companies Acts of the United Kingdom, its main office being at 36 Gordon Square, London, W.C.1, and its membership in January 1962 comprising 123 universities and colleges. Any corporate body wishing to join the Association must apply to the executive council of the Association, whose practice is to consult the inter-university organization in the country concerned as to the academic standing of the applicant institution before deciding the question of admission.

The Association was established in 1912 as a result of the first Congress of the Universities of the Empire which was convened in that year by the University of London; one of the decisions of the delegates of the fifty-three home and overseas universities who attended was that a Bureau should be maintained in London by the contributions of the several universities for the purpose of disseminating information on all matters of common interest, including the publication of a yearbook and the summoning of future congresses at five-yearly intervals. In 1919 the Bureau was incorporated under licence of the Board of Trade and a grant was made by H.M. government for central offices on condition that the universities themselves undertook to provide adequate funds for maintenance. This building was destroyed in 1940, but new offices were provided after the war from the subscriptions of member universities which continue to be the main income of the Association as it is not in receipt of any government grant. In 1961 a branch office for Commonwealth Scholarships and Appointments was opened at Marlborough House, Pall Mall, London, S.W.1.

The affairs of the Association are controlled by an executive council elected each year at an annual general meeting of members. Each member institution is entitled to be represented at this meeting by its executive head (vice-chancellor, president or principal) or by a personal deputy whom he may appoint; the meeting elects a

council of 16 members to represent member universities in the different countries, and a chairman, vice-chairman and honorary treasurer are appointed by the new council. In practice the chairmanship is occupied by a university vice-chancellor or president chosen from the different countries of the Commonwealth in turn, usually with regard to the venue of any overseas meeting of the Association in the year concerned.

Since 1912 seven further congresses of universities have been held under the auspices of the Association—in 1921 at Oxford, in 1926 at Cambridge, in 1931 at Edinburgh, in 1936 at Cambridge, in 1948 at Oxford and in 1953 at Cambridge. The eighth Congress of Universities of the Commonwealth was held at McGill University, Montreal, in September 1958, and was the first of the series to take place outside the United Kingdom. These congresses, at approximately quinquennial intervals, are major events in the field of Commonwealth conferences on higher education, each member university being invited to send a representative delegation. The 1958 congress was attended by 385 delegates, 102 member institutions being represented. The 1963 congress will be held in London. The Association has, since the war, held a number of smaller conferences in various parts of the Commonwealth; these are usually in the form of a meeting of the executive council and consequently involve the visit to one academic centre of some 12 to 15 heads of universities from the other countries. Such meetings were held at Halifax, Canada, in 1949; at Wairakei, New Zealand, in 1950; at Madras, India, in 1952; at Kingston, Canada, in 1954; at Melbourne, Australia, in 1955; at Lahore, Pakistan, in 1956; at Johannesburg and Grahamstown, South Africa, in 1960; in Hong Kong in 1961; and in New Zealand in 1962.

The Association's offices in London have a full-time staff of thirty-five. Besides providing an information bureau and a reception centre for visiting academic teachers and administrative officers, particularly those from universities overseas, the Association undertakes on behalf of its member institutions any special business which they may desire to have transacted in Europe. Considerable sections of this work are in connexion

with the assistance given to overseas universities in obtaining and investigating applications for advertised vacancies on their teaching staffs, and in connexion with the affairs of the Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom, of which the Association under a special financial arrangement provides the secretariat. Since 1959 the Association has been undertaking certain responsibilities in connexion with the Commonwealth Scholarship and Fellowship Plan (see p. 1479) particularly by providing the secretariat for the Commonwealth Scholarship Commission in the United Kingdom. The Association also provides the secretariat for the Marshall Aid Commemoration Commission which administers a scheme under which 24 scholarships are offered annually to U.S. graduates for study at U.K. universities. The staff performs its functions under the direction of the secretary and the deputy secretary, and includes several other graduates.

The *Commonwealth Universities Yearbook* has been produced regularly by the Association since its first issue in 1914 and is now a standard work of reference on the universities of the several countries, including those of the United Kingdom. Other recurrent publications of the Association are: *Higher Education in the United Kingdom: a*

Handbook for Students from Overseas (Longmans for A.U.B.C. and British Council); *Proceedings of the Quinquennial Congresses of Commonwealth Universities*; *Proceedings of the Home Universities Conferences*; *Annual Report* of the executive council; and *List of University Institutions in the British Commonwealth*. In addition the Association has published special reports such as *Applications for Admission to Universities* (report by R. K. Kelsall on an inquiry commissioned by the U.K. Committee of Vice-Chancellors and Principals), 1957; the first (1958), second (1960) and third (1961) *Reports of an ad hoc Committee on Procedure for Admission of Students to U.K. universities and a Code of Practice for the protection of persons exposed to Ionizing Radiations in University Laboratories* (1961). Lists are also available of United Kingdom university term dates, academic visitors to the U.K. and postgraduate awards.

The formal constitution of the Association is set out in the memorandum and articles of association which were adopted and approved by the Board of Trade in 1932 in substantially their present form, though certain amendments have been made with the required approval at extraordinary general meetings following the congresses of 1936, 1948 and 1953 to give effect to minor changes desired by the representatives of member universities.

MEMORANDUM AND ARTICLES OF ASSOCIATION

THE ASSOCIATION OF UNIVERSITIES OF THE BRITISH COMMONWEALTH

(The word 'Limited' being omitted by Licence of the Board of Trade)

MEMORANDUM OF ASSOCIATION

1. The name of the Association is 'THE ASSOCIATION OF UNIVERSITIES OF THE BRITISH COMMONWEALTH'.

2. The registered office of the Association will be situate in England.

3. The objects for which the Association is established are:

- (1) To take over and accept by way of gift or otherwise such of the assets and property of the unincorporated Universities Bureau of the British Empire, established in 1912, as the Association may lawfully acquire and to carry on and continue the undertaking and activities of the said Bureau.
- (2) To collect and distribute information from time to time on matters of interest to the Universities of the British Commonwealth.
- (3) To arrange conferences and congresses and otherwise to facilitate communication and the interchange of information between the said Universities and between them and the Governments and other

public bodies and learned institutions and societies of the British Commonwealth and the Governments, Universities and other bodies of foreign countries.

- (4) To facilitate the interchange of students and teachers between the said Universities and between them and the Universities of foreign countries.
- (5) To establish and maintain a central office in London which shall serve, amongst other things, as a secretariat for the Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom and for any other Committees which the Universities may from time to time appoint
- (6) To establish and maintain offices in any other parts of the United Kingdom or in any state, colony, or dependency of the British Commonwealth or in any foreign country or state, to form centres and

secretariats for the work and activities of the Association.

- (7) To print, publish and circulate handbooks, periodicals, circulars, leaflets and other publications with a view to making known and to furnishing and disseminating information about and encouraging interest in the objects, work and activities of the Association in any part of the world, and generally in connection with the carrying out of its objects.
- (8) To invite and collect subscriptions and donations to the funds of the Association by any lawful means.
- (9) To co-operate with other associations having similar objects with a view to the promotion of the objects of this Association.
- (10) To make, accept, endorse, discount and execute promissory notes, bills of exchange and other negotiable instruments.
- (11) To invest the moneys of the Association not immediately required for the purposes of the Association in or upon such securities and in such manner as may from time to time be deemed expedient, provided that moneys subject or representing property subject to the jurisdiction of the Charity Commissioners or Ministry of Education shall not be invested except in such securities and with such sanction (if any) as may for the time being be required by law.
- (12) To borrow or raise money for the purposes of or in connection with the Association's objects and to secure the same by mortgage or charge of any property of the Association or by the issue of debentures or debenture stock, charged on its undertaking or otherwise, or in any other manner as may be deemed expedient.
- (13) To do all such other things as may be thought calculated to promote the interests and well-being of the Universities of the British Commonwealth or any of them.
- (14) To do all such other things as may be incidental or conducive to the attainment of the above objects or any of them.

Provided that the Association shall not support with its funds any object or endeavour to impose on or procure to be observed by its Members or others any regulation, restriction or condition which if an object of the Association would make it a Trade Union.

Provided also that in case the Association shall take or hold any property subject to the jurisdiction of the Charity Commissioners or Ministry of Education for England and Wales, the Association shall not sell, mortgage, charge or lease the same without such authority, approval or consent as may be required by law, and as regards any such property the Managers or Trustees of the Association shall be chargeable for such property as may come into their hands, and shall be answerable and accountable for their own acts, receipts,

neglects and defaults, and for the due administration of such property in the same manner and to the same extent as they would as such Managers or Trustees have been if no incorporation had been effected, and the incorporation of the Association shall not diminish or impair any control or authority exercisable by the Chancery Division, the Charity Commissioners or the Ministry of Education over such Managers or Trustees, but they shall, as regards any such property, be subject jointly and separately to such control or authority as if the Association were not incorporated. In case the Association shall take or hold any property which may be subject to any trusts, the Association shall only deal with the same in such manner as allowed by law having regard to such trusts.

4. The income and property of the Association, whencesoever derived, shall be applied solely towards the promotion of the objects of the Association as set forth in this Memorandum of Association; and no portion thereof shall be paid or transferred directly or indirectly by way of dividend, bonus, or otherwise howsoever by way of profit, to the Members of the Association.

Provided that nothing herein shall prevent the payment, in good faith, of reasonable and proper remuneration to any officer or servant of the Association, or to any Member of the Association, in return for any services actually rendered to the Association, nor prevent the payment of interest at a rate not exceeding 5 per cent. per annum on money lent or reasonable and proper rent for premises demised or let by any Member to the Association; but so that no member of the Executive Council or Governing Body of the Association shall be appointed to any salaried office of the Association, or any office of the Association paid by fees, and that no remuneration or other benefit in money or money's worth shall be given by the Association to any member of such Council or Governing Body except repayment of out-of-pocket expenses and interest at the rate aforesaid on money lent or reasonable and proper rent for premises demised or let to the Association; Provided that the provision last aforesaid shall not apply to any payment to any railway, gas, electric lighting, water, cable or telephone company of which a member of the Executive Council or Governing Body may be a member or any other company in which such member shall not hold more than one-hundredth part of the capital, and such member shall not be bound to account for any share of profits he may receive in respect of any such payment.

5. No addition, alteration or amendment shall be made to or in the regulations contained in the Articles of Association for the time being in force, unless the same shall have been previously submitted to and approved by the Board of Trade.

6. The 3rd and 4th Paragraphs of this Memorandum contain conditions on which a licence is granted by the Board of Trade to the Association in pursuance of Section 20 of the Companies (Consolidation) Act, 1908.

7. The liability of the Members is limited.

8. Every Member of the Association undertakes to contribute to the assets of the Association, in the event of the same being wound up during the time that he is a Member, or within one year afterwards, for payment of the debts and liabilities of the Association contracted before the time at which he ceases to be a Member, and of the costs, charges and expenses of winding up the same, and for the adjustment of the rights of the contributors amongst themselves, such amount as may be required not exceeding One Pound.

9. If upon the winding up or dissolution of the Association there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the Members of the Association, but shall be given or transferred to some other institution or institutions having objects similar to the objects of the Association, and which shall prohibit the distribution of its or their income and property amongst its or their Members to an extent at least as great as is imposed on the Association under or

by virtue of Clause 4 hereof, such institution or institutions to be determined by the Members of the Association at or before the time of dissolution, or in default thereof by such Judge of the High Court of Justice as may have or acquire jurisdiction in the matter, and if and so far as effect cannot be given to the aforesaid provision then to some charitable object.

10. True accounts shall be kept of the sums of money received and expended by the Association, and the matter in respect of which such receipts and expenditure take place, and of the property, credits and liabilities of the Association; and, subject to any reasonable restrictions as to the time and manner of inspecting the same that may be imposed in accordance with the regulations of the Association for the time being, shall be open to the inspection of the Members. Once at least in every year the accounts of the Association shall be examined and the correctness of the balance-sheet ascertained by one or more properly qualified Auditor or Auditors.

ARTICLES OF ASSOCIATION

PRELIMINARY

1. The number of the Members of the Association is declared not to exceed 150, but the Council may at any time register an increase in the number of the Members.

2. These Articles shall be construed with reference to the provisions of the Companies Act, 1948, and terms used in these Articles shall be taken as having the same respective meanings as they have when used in that Act.

3. The Association is established for the purposes expressed in the Memorandum of Association.

MEMBERSHIP

4. The Members of the Association shall consist of corporate bodies with the following status:

(a) *Ordinary Members* who shall be (i) the Universities specified in Schedule A attached to these Articles, and (ii) such Universities situate within the Commonwealth as are admitted Members by the Council in accordance with such regulations as may be framed by the Council in this behalf.

(b) *Associate Members* who shall be such Universities in Mandated or Trust Territories of the United Kingdom or of any other Commonwealth country and such other institutions being University Colleges or Colleges of Universities within the Commonwealth (being corporate bodies), as may hereafter be admitted Members by the Council under such conditions of membership as may be prescribed by the Council in this behalf.

(c) *Such other classes of Members* (consisting of

corporate bodies) as may from time to time be admitted by the Council under such conditions of membership as may be prescribed by the Council in this behalf.

5. Every Member shall sign an undertaking in such form as the Council may require to observe and perform all the conditions and provisions of the regulations of the Association for the time being in force, and thereupon the name of such Member shall be entered in the register of Members of the Association.

6. Ordinary Members shall have full rights of membership. Other Members shall be entitled to such of the privileges and benefits of the Association as may be assigned to them from time to time by the Council.

7. Every Member shall nominate a person to act as its representative provided that if it has an officer such as Principal President or Vice-Chancellor whom it recognizes as its executive head it shall nominate him. Such nomination shall be in writing and shall be deposited at the registered office of the Association. Such representative shall have the right on behalf of the Member to exercise all such rights of membership as may have been assigned to such Member by these Articles or by Regulations framed by the Council. A Member may from time to time in writing revoke the nomination of such representative, and nominate another representative in his place. If a representative being the executive head of a Member ceases to hold the office by virtue of which he was nominated he shall cease to be the representative and the Member shall nominate his successor in such office as its representative.

7A. The representative of any Member may nominate in writing deposited with the Secretary a deputy to act for him during any period for which he gives notice in such writing; during such period for the purposes of these Articles any deputy so nominated shall be entitled to act as if he were the representative, and the Association shall be entitled to treat him as the representative, and anything done or suffered by him shall be deemed to have been done or suffered by the representative, whether (should the representative be at the time one of the persons appointed to the Executive Council) in relation to the business of the Executive Council or otherwise.

8. Any Member may withdraw from the Association by giving notice in writing to the Secretary before the expiration of any financial year, and on paying with such notice any unpaid subscription for the current year. Thereupon such Member shall be deemed to have ceased to be a Member from the date of the expiration of such financial year.

9. Upon the retirement of any Member by notice as stated in Article 8 the Member shall not be entitled to any repayment of any subscription or any part thereof paid for the current year.

10. The rights of any Member shall not be transferable and shall cease upon the Member failing to pay the annual subscription within twelve months of its becoming due. Any such Member may be readmitted to membership upon payment of the subscription for the year during which its membership lapsed.

DUTIES OF MEMBERS

11. Every Member of the Association shall be bound:

- (a) To pay to the Association such minimum annual subscriptions for the various classes of Members as may be fixed by the Association at its first General Meeting after the adoption of these Articles, and as may subsequently be fixed from time to time at Extraordinary Meetings held during the progress of Quinquennial Congresses, under the provisions of Article 35.
- (b) To observe the provisions of these presents and of the Memorandum of Association and all the bye-laws, rules and regulations of the Association for the time being in force.

COUNCIL OF THE ASSOCIATION

12. The Executive of the Association shall be a Council consisting of 16 persons chosen from among the representatives of Members so that Members of the classes specified in the second column of the following table and situate in each of the countries or groups of countries mentioned in the first column shall together be entitled to nominate the number of representatives respectively shown in the third column.

<i>Members within—</i>	<i>Class of Member</i>	<i>No. of Representatives</i>
The United Kingdom . .	Ordinary	4
Canada . .	Ordinary	2
Australia . .	Ordinary	2
New Zealand . .	Ordinary	1
South Africa . .	Ordinary	2
India and Ceylon . .	Ordinary	2
Pakistan . .	Ordinary	1
Other Parts of the Commonwealth	Ordinary and Associate	2

13. (a) The nominations required by Article 12 shall be made by such inter-University organizations as the Council shall by regulation declare to be appropriate to the said countries or groups of countries.

(b) The Association in General Meeting shall appoint the representatives so nominated to be members of the Council until the next General Meeting, when they shall be eligible for re-nomination and reappointment. If there shall be less than 16 nominations then the General Meeting shall appoint sufficient representatives to be members of the Council to complete that number having regard to the proportions set out in Article 12.

14. The office of a member of the Council shall *ipso facto* be vacated if his appointment as a representative of a Member is withdrawn by the Member appointing him, or if the Corporation appointing him ceases to be a Member of the Association.

15. Casual vacancies shall be filled by the Council from amongst the representatives nominated by Ordinary Members under the provisions of Article 7. The person so appointed shall hold office until the Annual Meeting next after his appointment, but he shall then be eligible for re-election if nominated in accordance with the terms of Article 13.

16. No act or resolution of the Council shall be invalidated by reason of the existence of any vacancy or vacancies among members of the Council, but if the number of members of the Council shall be reduced below 13 the continuing members may act for the purpose only of filling vacancies or summoning a General Meeting of the Association.

17. The Council shall manage and control all matters relating to the management and organization of the Association and may exercise all such powers of the Association as are not by the Companies Act, 1948, or by these Articles required to be exercised by the Association in General Meeting subject nevertheless to any regulation of these Articles, to the provisions of the said Act, and to such regulations being not inconsistent with the aforesaid regulations or provisions, as may be prescribed by the Association in General Meeting; but no regulation made by the Association in

General Meeting shall invalidate any prior act of the Council, which would have been valid if that regulation had not been made.

18. The Council may appoint, in consultation with the appropriate groups of Universities, special Committees to study and report on questions of interest to the Universities in more than one region of the Commonwealth and shall provide the necessary secretarial assistance for such Committees, but if such assistance involves exceptional expenditure, they may make it a condition of providing such assistance that a special subvention be made by the Universities concerned.

19. The Council shall study and report on, either by means of special Committees or otherwise as may be appropriate in each case, any questions referred to them by any Conference or Congress of Universities, but if exceptional expenditure is involved they may make it a condition of undertaking the inquiry that a special subvention be made by the Universities concerned.

20. The Council shall elect annually a Chairman of the Association and an Honorary Treasurer of the Association; and if the person appointed to be Chairman of the Association for any year represents a country other than the United Kingdom the Council shall for each such year appoint a Vice-Chairman of the Association who shall be a person resident in the United Kingdom. If the persons elected as Chairman, Vice-Chairman and Treasurer are not already members of the Executive Council they shall become members for the period during which they hold office.

20A. At every meeting of the Council the Chairman of the Association, if present, shall preside. If the Chairman of the Association is absent, then the Vice-Chairman of the Association shall preside. In the absence of the Chairman and Vice-Chairman, the members of the Council shall choose one of the members of the Council then present to preside at that meeting.

21. The Chairman of the Association and the Vice-Chairman of the Association may at any time, and the Secretary upon the request of six members of the Council shall, convene a meeting of the Council. In the case of a meeting convened at the request of six members the notice of meeting shall state the character of the business to be discussed, and only business of which notice shall have been so given shall be discussed at that meeting. Each member of the Council shall name an address at which all notices shall be served upon him, and all notices served at such address shall be deemed to be well served. Questions arising at any meeting of the Council shall be decided by a majority of members present and voting at such meeting. In the event of the votes being equally divided the Chairman shall have a second or casting vote.

22. The quorum for a meeting of the Council shall be five.

23. A meeting of the Council for the time being at which a quorum is present shall be competent to exercise all or any of the authorities, powers and discretions by or under the Articles of

Association for the time being vested in or exercisable by the Council generally.

24. The Council may delegate such of its powers as it considers desirable to any Committee consisting of members of the Council.

25. The meetings and proceedings of any such Committee shall be governed by the provisions herein contained for regulating the meetings and proceedings of the Council, so far as the same are applicable thereto.

26. The Council may from time to time appoint a Secretary of the Association and any other officers or servants who may be required for the performance of the business of the Association or of the Council and may from time to time appoint a temporary substitute for the Secretary who, in the absence of the Secretary, shall be deemed to be the Secretary.

27. All acts done by any meeting of the Council or by any person acting as a member of the Council shall notwithstanding that it shall be afterwards discovered that there was some defect in the appointment of the Council, or persons acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such person had been duly appointed and was qualified to be a member of the Council.

28. Without prejudice to the generality of the powers conferred upon the Council by Article 17 the Council may from time to time frame regulations (a) generally to give effect to the provisions of the Memorandum of Association and of these Articles and (b) particularly for the following purposes:

- (1) for admitting Universities which may hereafter become corporations;
- (2) for admitting as Associate Members Corporations which are Universities in Mandated or Trust Territories of the United Kingdom or of any other Commonwealth country and other institutions, being University Colleges or Colleges of Universities within the Commonwealth;
- (3) for assigning privileges of membership to (a) Associate Members and (b) other classes of Members;
- (4) for prescribing a form to be signed by Members prior to admission as Members;
- (5) for prescribing the manner in which the groups of Universities referred to in Article 12 shall appoint representatives;
- (6) for managing the business and defining the duties of the Association;
- (7) for delegating to Committees of the Council such of its powers as are not inconsistent with the provisions of these Articles;
- (8) for fixing the manner of the appointment of the special Committees referred to in Articles 18 and 19;
- (9) for arranging for the provision of secretarial assistance to such Committees; and for assessing any exceptional expenditure involved and distributing it amongst Universities concerned;
- (10) for determining the period for which the

Chairman, Vice-Chairman and Honorary Treasurer of the Association are to hold office ;

- (11) for defining the manner in which the Minutes of business transacted at meetings of the Association are to be recorded ;
- (12) for providing for the custody of the seal and for determining the officer of the Association other than the Secretary who may countersign instruments to which the seal is attached ;
- (13) for prescribing the form in which instruments appointing proxies shall be framed ;
- (14) for prescribing the books of account which have to be maintained in accordance with the provisions of Article 60 ;
- (15) for prescribing the place at which such books of account shall be kept.

Provided always that no regulation made by the Council shall have any validity or effect if it amounts to or involves such an alteration of or addition to these Articles as could only lawfully be made by Special Resolution.

MINUTES

29. The Council shall cause minutes to be duly entered in books provided for the purpose of all business transacted at General and Extraordinary Meetings and at meetings of the Council and Committees thereof

30. Any such minutes of any meeting of the Council or of Committees thereof, or of the Association, if purporting to be signed by the Chairman of such meeting, or by the Chairman of the next succeeding meeting, shall be conclusive evidence of the matters stated in such minutes.

31. The Council shall submit to the Annual General Meeting of the Association a report of its work and activities during the preceding year.

SEAL

32. The Council shall provide for the safe custody of the seal, and the seal shall never be used except by the authority of the Council previously given, and in the presence of a member of the Council, who shall sign every instrument to which the seal is affixed, and every such instrument shall be countersigned by the Secretary or some other person appointed by the Council.

GENERAL MEETINGS

33. A General Meeting of the Association shall be held once at least in every calendar year in London or such other University town and at such time as may be determined by the Council provided that a General Meeting shall be held within not more than fifteen months after the holding of the last General Meeting

34. The above-mentioned General Meetings shall be called Ordinary Meetings, all other General Meetings shall be called Extraordinary Meetings.

35. An Extraordinary Meeting of the Association shall be held during the progress of each Quinquennial Congress of Universities of the

Empire or within three days of the commencement or termination of that Congress.

36. Notwithstanding any provisions to the contrary in these Articles the Chairman of the Association or in his absence the Vice-Chairman of the Association shall have power at any Extraordinary Meeting summoned under the provisions of Article 35 to place on the agenda matters which have been the subject of a resolution passed by the delegates at the Quinquennial Congress during which the Extraordinary Meeting is being held.

37. The Council may whenever it thinks fit and it shall upon a requisition made in writing and signed by Members entitled to vote representing not less than one-tenth of the total voting rights of all the Members having at the date of the requisition a right to vote at General Meetings of the Association convene an Extraordinary Meeting. The Secretary shall at any time when required by the Chairman of the Association or in his absence abroad by the Vice-Chairman of the Association summon an Extraordinary Meeting.

38. Any requisition made by the Members of the Association entitled to vote as aforesaid shall express the object of the meeting proposed to be called and shall be left at the registered office of the Association.

39. Upon the receipt of such requisition the Council shall forthwith proceed to convene an Extraordinary Meeting and if they neglect to do so for twenty-one days from the time of the requisition being so left the requisitionists or any of them representing more than one-half of the total voting rights of all of them may themselves convene the meeting in the same manner as nearly as possible as that in which meetings are to be convened by the Council.

40. The business of an Ordinary Meeting shall be—

- (a) To receive and consider the accounts, the balance-sheet and the reports of the Council and the Auditors.
- (b) To appoint an Auditor or Auditors and fix his or their remuneration
- (c) To appoint the members of Council in accordance with the provisions of Article 13.

All other business transacted at an Ordinary Meeting and all business transacted at an Extraordinary Meeting shall be deemed special. If any Member has any proposal or any matter which he wishes to make or bring before an Ordinary Meeting he shall give fourteen days' written notice thereof to the Secretary.

41. Subject to the provisions of Section 141 (2) of the Companies Act, 1948, relating to Special Resolutions, twenty-eight days' notice at the least (or in the case of a meeting convened pursuant to a requisition of Members fourteen days' notice at the least) exclusive of the day of giving the notice but inclusive of the day of the meeting, specifying the place, the day and hour of meeting and (in case of special business) the general nature of such business, shall be given by notice to the Members in manner hereinafter stated with reference to the giving of notices, but the accidental omission to

give such notice to or the non-receipt of such notice by any Member shall not invalidate the proceedings of any meeting.

42. Except as otherwise provided by these presents no business shall be transacted at any General Meeting unless a quorum of representatives of Members entitled to vote is present at the time when the meeting proceeds to business.

43. A quorum shall consist of ten representatives of Ordinary Members.

44. If within half an hour from the time appointed for a meeting ten representatives of Ordinary Members entitled to vote are not present the meeting if convened upon a requisition of Members shall be dissolved but in any other case it shall stand adjourned to a place to be fixed by the Chairman of the Association or in his absence abroad by the Vice-Chairman of the Association and to a date to be fixed by the Chairman or Vice-Chairman (as the case may be) not earlier than two weeks and not later than one month after the date of the original meeting, and if at such adjourned meeting a quorum is not present but two or more representatives of Ordinary Members entitled to vote are present the representatives of Members present entitled to vote shall be a quorum and may transact the business for which the original meeting was called.

45. At any adjourned General Meeting the representatives of Ordinary Members present entitled to vote being two or more in number shall have the power to decide upon all matters which could properly have been disposed of at the meeting from which the adjournment took place had a sufficient number of representatives of Members entitled to vote been present at such meeting. Notice of the time and place fixed by the Chairman of the Association or the Vice-Chairman of the Association (as the case may be) for an adjourned meeting shall be given to all Members entitled to receive notices of meetings.

46. The Chairman of the Association if present shall be the Chairman of every General Meeting, but if the Chairman of the Association is absent then the Vice-Chairman shall preside and if neither the Chairman nor the Vice-Chairman is present the representatives of Members present at the meeting and entitled to vote shall choose a representative entitled to vote to act as Chairman in his place.

47. The Chairman may upon the resolution of the meeting adjourn any meeting from time to time and from place to place but no business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place.

48. No poll shall be demanded on the appointment of a Chairman or on a question of adjournment.

49. At any General Meeting unless a poll is demanded by at least two representatives of Members entitled to vote a declaration by the Chairman that a resolution has been carried or has been carried unanimously or by a particular majority or lost or not carried by a particular

majority and an entry to that effect in the book of proceedings of the Association shall be conclusive evidence of the fact without proof of the number or proportion of the votes recorded in favour of or against such resolution.

50. If a poll is demanded by two or more representatives of Members entitled to vote it shall be taken in such manner as the Chairman directs and he shall have power to take the poll at once at the meeting or to adjourn the meeting for a reasonable time not exceeding fourteen days for the purpose of taking such poll, and the result of such poll shall be deemed to be the resolution of the Association in General Meeting. In case of an equality of votes at any General Meeting the Chairman shall be entitled to a second vote or casting vote.

51. Minutes of all resolutions and proceedings at General Meetings signed by any person purporting to be the Chairman of the Meeting at which such Minutes were signed as correctly recorded, shall be conclusive evidence of the facts therein stated.

52. Nothing in these Articles shall preclude the Council from inviting any member of the teaching or administrative staff of a corporation or institution, which is an Ordinary Member or an Associate Member, to attend a General or Extraordinary Meeting of the Association, or any meeting of the Council or Committees thereof, provided that any person so attending any meeting shall not be entitled to vote at such meeting or to participate in any discussion on any subject other than that for the discussion of which he has been invited to attend.

VOTES AT GENERAL MEETINGS

53. Every Member entitled to vote represented directly or by proxy shall have one vote and no more at a General Meeting except the Chairman, who shall, in case of an equality of votes, have a second or casting vote.

54. Votes may be given either personally by the representative of a Member or by proxy given by such representative.

55. The instrument appointing a proxy shall be in writing under the hand of the appointor and may be in the following form:

I _____ of _____ in the County of _____ being the duly authorized representative of _____ a Member of the Association of Universities of the British Commonwealth hereby appoint _____ as my proxy to vote for me and on my behalf at the (Ordinary or Extraordinary or adjourned as the case may be) General Meeting of the Association to be held on the _____ day of _____ and at any adjournment thereof.

SIGNED this _____ day of _____ Or in such other form as the Council shall approve.

56. Only representatives of Members entitled to vote shall be appointed proxies.

57. The instrument appointing a proxy shall be deposited at the registered office of the Association or delivered to the Secretary not less than forty-eight hours before the time appointed for holding the meeting at which the person named in such instrument proposes to vote.

58. No objection shall be made to the validity of any vote except at the meeting or poll at which such vote shall be tendered, and every vote whether given personally or by proxy not disallowed at such meeting or poll shall be deemed valid for all purposes of such meeting or poll whatsoever.

59. The Chairman of any meeting shall be the sole and absolute judge of the validity of every vote tendered at such meeting or poll and may allow or disallow the votes tendered according as he shall be of opinion that they are or are not valid.

ACCOUNTS

60. The Council shall cause proper books of account to be kept with respect to :

- (a) all sums of money received and expended by the Association and the matters in respect of which the receipts and expenditure take place, provided that receipts and expenditure in connection with the Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom and with any other Committees or activities of these Universities shall be shown separately;
- (b) all sales and purchases of goods by the Association;
- (c) the assets and liabilities of the Association.

61. The books of account shall be kept at such place as the Council may from time to time appoint, and subject to any reasonable restrictions as to the time and manner of inspecting them that may be imposed by the Association in General Meeting, the books of account shall be open to the inspection of the Members at all times during the usual business hours.

62. The Council shall from time to time, in accordance with Section 143 of the Act 1948, cause to be prepared and to be laid before the Association in General Meeting such income and expenditure accounts balance sheets and reports as are referred to in that section.

63. A copy of every balance sheet (including every document required by law to be annexed thereto) which is to be laid before the Association in General Meeting together with a copy of the auditor's report shall not less than seven days before the date of the meeting be sent to all persons entitled to receive notices of General Meetings of the Association.

AUDIT

64. Auditors shall be appointed and their duties regulated in accordance with Sections 159, 160, 161 and 162 of the Companies Act, 1948.

NOTICES

65. A notice may be given by the Association to any Member either personally to the represen-

tative of such Member or by sending it by post to such representative to his address. Every representative of a Member shall furnish to the Association an address at which notices may be served.

66. (a) Where a notice is sent by post to an address in the United Kingdom or the Republic of Ireland, service of the notice shall be deemed to be effected by properly addressing, prepaying and posting a letter containing the notice, and, unless the contrary is proved, to have been effected by the second day after that on which it was posted.

(b) Where a notice is sent by post to an address outside the United Kingdom or the Republic of Ireland, service of the notice shall be deemed to be effected by properly addressing, prepaying and posting by airmail a letter containing the notice, and, unless the contrary is proved, to have been effected by the eighth day after that on which it was posted.

SCHEDULE A. (Vide Article 4 (a))

UNIVERSITIES OF THE UNITED KINGDOM

England and Wales : Birmingham, Bristol, Cambridge, Durham, Leeds, Liverpool, London, Manchester, Nottingham, Oxford, Reading, Sheffield, Southampton, Wales.

Scotland : Aberdeen, Edinburgh, Glasgow, St. Andrews.

Northern Ireland : The Queen's University of Belfast.

UNIVERSITIES OVERSEAS

Canada : Acadia, Alberta, British Columbia, Carleton College, Dalhousie, Laval, McGill, McMaster, Manitoba, Montreal, Mount Allison, New Brunswick, Queen's, Saskatchewan, Sir George Williams College, St. Francis Xavier, Toronto, Western Ontario.

Australia : Adelaide, Australian National University, Melbourne, New South Wales University of Technology, Queensland, Sydney, Tasmania, Western Australia.

New Zealand : The University of New Zealand.

South Africa : Cape Town, Natal, Orange Free State, Potchefstroom, Pretoria, Rhodes, South Africa, Stellenbosch, Witwatersrand.

Ceylon : The University of Ceylon.

India : Allahabad, Andhra, Annamalai, Maharaja Sayajirao University of Baroda, Banaras Hindu University, Bihar, Bombay, Calcutta, Delhi, Jammu and Kashmir, Lucknow, Madras, Mysore, Nagpur, Osmania, Panjab (India), Patna, Rajputana, Roorkee, Saugar, Travancore, Utkal.

Pakistan : Dacca, Karachi, Panjab (Lahore), Peshawar, Sind.

Other Parts of the Commonwealth : Hong Kong, Malaya, The Royal University of Malta.

MEMBER INSTITUTIONS OF THE A.U.B.C.

AND THEIR REPRESENTATIVES

(as at December 31, 1961)

For Executive Council, *see* p. vii

(i) Ordinary Members

UNITED KINGDOM,

<i>University</i>	<i>Representative</i>
Birmingham	Sir Robert Aitken, MD DPhil LLD DSc DCL, FRCP, FRCPEd, FRACP
Bristol	Sir Philip Morris, KCMG, CBE, MA LLD
Cambridge	Sir Ivor Jennings, KBE, QC, LLD LittD, FBA
Durham	D. G. Christopherson, OBE, DPhil, FRS, MIMechE
Exeter	J. W. Cook, DSc PhD ScD DU, FRIC, FRS
Hull	Brynmor Jones, BSc PhD ScD, FRIC
Leeds	Sir Charles Morris, MA LLD DLitt
Leicester . . . . .	.....
Liverpool	Sir James Mountford, MA DLitt LittD LLD DCL
London	Sir Douglas Logan, MA DPhil DCL LLD
Manchester	Professor W. Mansfield Cooper, LLM
Nottingham	B. L. Hallward, MA
Oxford	A. L. P. Norrington, MA
Reading	Sir John Wolfenden, CBE, MA
Sheffield	J. M. Whittaker, MA DSc, FRS
Southampton	D. G. James, MA LLD
Wales	T. Parry, MA DLitt, FBA
Aberdeen	Sir Thomas Taylor, CBE, QC, MA DD LLD
Edinburgh	Sir Edward Appleton, GBE, KCB, MA DSc ScD LLD LittD DU, FRCSEd, FRS
Glasgow	C. H. Wilson, MA LLD
St Andrews	Sir Malcolm Knox, MA LLD
The Queen's, Belfast	M. Grant, CBE, MA LittD, FSA

CANADA

Acadia	W. Kirkconnell, MA PhD LLD DPEc DLitt LittD LHD, FRAI, FRHistS, FRSCan
Alberta	W. H. Johns, BA PhD LLD
Assumption	Rev. E. C. LeBel, CD, MA LLD
British Columbia	N. A. M. MacKenzie, CMG, MM, QC, BA LLD DCL DScSoc, FRSCan
Carleton	A. D. Dunton, DSc LLD
Dalhousie	A. E. Kerr, BA DD LLD
King's College	Rev. Canon H. L. Puxley, MA LTh DD
Laval	Mgr. L.-A. Vachon, DTh DPh
McGill	F. C. James, BCom AM PhD DSc DU DCL LLD, FRSCan
McMaster	H. G. Thode, MBE, PhD LLD DSc, FRS, FRSCan, FCIC
Manitoba	H. H. Saunderson, BA MSc PhD LLD, FCIC
Memorial University of Newfoundland	R. Gushue, CBE, QC, LLD DCL
Montreal	Rt. Rev. Mgr. I. Lussier, LLD LTh LPh
Mount Allison	Rev. W. T. R. Flemington, OBE, ED, MA BPaed DD LLD DPéd
New Brunswick	C. B. Mackay, BA LLD DCL
Ottawa	Very Rev. H. F. Légaré, BA DSocSc LLD
Queen's, Ontario	W. A. Mackintosh, CMG, MA PhD LLD DCL, FRSCan
St. Dunstan's	Rt. Rev. J. A. Sullivan, MA
St. Francis Xavier	Rt. Rev. H. J. Somers, PhD, FRHistS
St. Mary's	Very Rev. C. J. Fischer, SThL
Saskatchewan	J. W. T. Spinks, MBE, PhD DSc LLD, FRSCan
Sir George Williams	H. F. Hall, BA LLD DD

<i>University</i>	<i>Representative</i>
Toronto	C. T. Bissell, MA PhD DLitt LLD, FRSCan
Waterloo	J. G. Hagey, BA LLD
Western Ontario	G. E. Hall, AFC, MSA MD PhD DSc LLD, FRSCan

AUSTRALIA

Adelaide	H. B. Basten, CMG, MA
Australian National University	Professor L. G. H. Huxley, MA DPhil PhD, FIP, FAA
Melbourne	Professor Sir George Paton, MA DCL LLD
Monash	J. A. L. Matheson, MBE, MSc PhD MCE, MICE
New England	R. B. Madgwick, MEd DPhil
New South Wales	J. P. Baxter, CMG, OBE, BSc PhD, FAA, FRACI
Queensland	Professor F. J. Schonell, MA PhD DLit, FBPsS
Sydney	S. H. Roberts, CMG, MA Litt DLitt LLD DSc(Econ) DCL
Tasmania	K. S. Isles, MA MSc
Western Australia	S. L. Prescott, OBE, MSc

NEW ZEALAND

Auckland	K. J. Maidment, MA
Canterbury	L. L. Pownall, MA PhD
Otago	F. G. Soper, CBE, PhD DSc, FRIC, FRSNZ, FNZIC
Victoria, Wellington	J. Williams, PhD LLD

SOUTH AFRICA

Cape Town	J. P. Duminy, MA BSc
Natal	E. G. Malherbe, MA PhD LLD
Orange Free State	Professor P. W. G. Groenewoud, MSc DPhil
Potchefstroom	Professor J. C. Coetzee, MA MEd DPhil, FBPsS
Pretona	C. H. Rautenbach, MA BD DU DPhil
Rhodes	T. Alty, PhD DSc DCL LLD, FIP, FRSCan
South Africa	Professor S. Pauw, BSc MA DPhil
Stellenbosch	H. B. Thom, MA DPhil
Witwatersrand	W. G. Sutton, BA BSc(Eng), MICE

INDIA

Agra	P. D. Gupta
Allahabad	P. K. Kaul, BA LLB
Andhra	A. L. Narayan, MA DSc, FIP
Annamalai	V. Subrahmanyam, BA BL
Banaras	Lt.-Col. N. H. Bhagwati, MA LLB
Baroda	J. M. Mehta, MA PhD
Bihar	K. K. Banarje, MA BL
Bombay	V. R. Khanolkar, BSc MD, FNI
Calcutta	S. Mitra, MD, FRCSEd, FRCOG, FACS, FNI
Delhi . . . . .	.....
Gorakhpur	A. C. Chatterji, DSc DrIng
Jabalpur	Pandit K. L. Dubey, BA LLB
Jadavpur	T. Sen, DrIng, MIE(India)
Jammu and Kashmir	K. M. Panikkar
Kerala	K. C. K. E. Raja, DTM&H
Madras	Sir A. L. Mudaliar, BA MD LLD DSc DCL, FRCOG, FACS
Marathwada	S. R. Dongerkery, BA LLB
Mysore	N. A. Nikam, MA
Osmania	D. S. Reddi, MA DLitt
Panjab, Chandigarh	A. C. Joshi, DSc, FNI
Patna	B. N. Rai
Rajasthan	M. S. Mehta, MA LLB PhD
Roorkee	G. Pande, CE, MIE(India)
Sardar Vallabhbhai Vidyapeeth	M. D. Patel, MSc PhD
Saugar	D. P. Mishra, BA LLB DLitt
Sri Venkateswara	S. Govindarajulu, MA LLB BL

<i>University</i>	<i>Representative</i>
Utkal	Col.-Commandant P. P. Parija, OBE, MA DSc, FNI
Vikram	G. L. Datta, MA PhD

CEYLON

Ceylon	Sir Nicholas Attygalle, LMS DSc LLD, FRCS, FRCOG
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PAKISTAN

Dacca	M. Hussain, PhD
Karachi	I. H. Qureshi, MA PhD
Panjab, Lahore	Professor T. M. Khayal, MA
Peshawar	Col. M. K. Afridi, CBE, MD
Rajshahi	M. Ahmed, MA PhD
Sind	M. Raziuddin Siddiqi, MA PhD DSc

OTHER PARTS OF THE COMMONWEALTH

Hong Kong	L. T. Ride, CBE, JP, MA DM BCh LLD
Malaya	Sir Alexander Oppenheim, OBE, MA DSc PhD
Malta	J. A. Manché, CBE, BSc MD LLD

(ii) Associate Members

University College of North Staffordshire	H. M. Taylor, CBE, MSc MA PhD
University College of Sussex	J. S. Fulton, MA
Brandon College	J. E. Robbins, MA PhD LLD
Lincoln College	M. M. Burns, CBE, MSc PhD, FNZIC
Massey College	A. Stewart, MAgrSc DPhil
University College of Ghana	N. K. Nketsia IV, DPhil
University College, Ibadan	K. O. Dike, MA PhD LLD
Makerere University College	B. de Bunsen, CMG, MA
University College of Rhodesia and Nyasaland	W. Adams, CMG, OBE, BA LLD
Fourah Bay College, The Univer- sity College of Sierra Leone	D. S. H. W. Nicol, MA MD PhD
University College of the West Indies	W. A. Lewis, BCom MA PhD LHD LLD

(iii) Additional Members

College of Science and Techno- logy, Manchester	B. V. Bowden, MA PhD, MIEE
Royal College of Science and Technology, Glasgow	S. C. Curran, DSc, FRS
Nova Scotia Technical College	G. W. Holbrook, MSc PhD, MEIC
Royal Military College of Canada	Brigadier W. A. B. Anderson, OBE, CD, BA

GENERAL INDEX

[For index to the names of teaching staff and administrative officers, see pp. 1529-1668]

The General Index contains references to institutions, to subjects of study, and to such topics as Admission, Degrees, Vacation Courses, etc.

In each university entry in the book, only the first page on which a subject of study is mentioned is indexed, the several colleges, etc., of a federal university being treated as separate entries. This single reference is usually to a departmental heading, or bracketed subject beside a status, in the staff list, but a further (unindexed) mention of the subject may also be found in such paragraphs as 'First Degrees' or 'Diplomas' in the section of General Information for that university.

Although, under the heading of 'Medicine', a reference is given in the index to each medical school or faculty, subjects which normally form part of the course for a degree in medicine are not indexed separately. Such subjects are: anaesthetics, anatomy, bacteriology, dermatology, forensic medicine, gynaecology, obstetrics, ophthalmology, orthopaedics, oto-rhino-laryngology, paediatrics, pathology, physiology, surgery, tuberculosis, venereal diseases.

Similarly, although a reference is given in the index, under the heading of 'Dentistry', to each dental school or faculty, subjects which normally form part of the course for a degree in dentistry are not indexed separately.

The indexing of subjects which may be studied at all, or almost all, universities is limited to the indexing of references in the several national introductions. Such subjects are: biochemistry, biology, botany, chemistry, classics (Greek and Latin), economics (political economy), education, engineering (also civil, electrical and mechanical engineering), English, French, geography, geology, German, history, law, mathematics (also pure and applied mathematics), music, philosophy, physics, politics (political science), social studies, zoology. It should, however, be noted that the less common branches of these subjects (e.g.: agricultural chemistry; music, African) are fully indexed in the way described in paragraph two above.

ABBREVIATIONS: *Aust*=Australia, *Can*=Canada, *Ceyl*=Ceylon, *Eaf*=East Africa, *Gh*=Ghana, *HCT*=High Commission Territories, *HK*=Hong Kong, *Ind*=India, *M & S*=Malaya & Singapore, *NZ*=New Zealand, *Nig*=Nigeria, *Pak*=Pakistan, *R & N*=Federation of Rhodesia & Nyasaland, *SL Leone*=Sierra Leone, *UK*=United Kingdom, *WI*=West Indies, *R of Ireland*=Republic of Ireland, *SA*=South Africa, *App*=Appendix.

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* *Aust.* = Australia, *Can.* = Canada, *Ceyl.* = Ceylon, *E. Af.* = East Africa, *Gh.* = Ghana, *H C T.* = High Commission Territories, *H K* = Hong Kong, *Ind* = India, *M. & S.* = Malaya & Singapore, *N.Z.* = New Zealand, *Nig.* = Nigeria, *Pak* = Pakistan, *R. & N.* = Rhodesia & Nyasaland, *S. Leone* = Sierra Leone, *U.K.* = United Kingdom, *W.I.* = West Indies, *Appcs.* = Appendices.

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